

FAIRMONT
SCOTTSDALE PRINCESS
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Scottsdale, AZ

EXTERIOR LIGHTING
FIXTURE SCHEDULE
& CUT SHEET PACKAGE

THE LIGHTING DESIGN
ALLIANCE, INC.

LOS ANGELES
2830 TEMPLE AVENUE
LONG BEACH, CA 90806-2213

T: 562.989.3843
F: 562.989.3847

www.LightingDesignAlliance.com

ORIGINAL ISSUE:
2 August 2022

REVISIONS:
1. 11 October 2022

FIXTURE NOTES:

- Fixtures shall include all accessories for installation as required by national or local electrical codes.
- Electrical Engineer to determine all fixture voltages.
- Electrical Engineer shall be responsible for emergency lighting, calculations and circuiting to meet code conformance as required by law.
- Prior to the release of the lighting fixture order, the party responsible for fixture procurement (typically the Contractor) shall:
 - Verify all fixtures shall have appropriate UL, ETL or other recognized and accepted testing agency for dry, damp, or wet location installation as required by national or local electrical codes
 - Verify all integral or remote ballasts or drivers are recognized by UL, ETL or other recognized testing agency. Remote ballasts or drivers shall be listed as an "assembly" to operate with the luminaire
 - Verify fixture and ballast configuration conform with Title 24 or other local energy codes (e.g. tandem wiring, ballast factor, etc)
 - Work with the Contractor to verify items outlined in section 5 below.
- Prior to the release of the lighting fixture order, contractor shall work with the lighting procurement agent to:
 - Verify fixture location and above-ceiling clearances for recessed fixtures. Contractor shall notify the Lighting Designer of any conflicts.
 - Verify final fixture voltages
 - Verify housing and trim compatibility with ceiling type (e.g. gyp. or suspended ceiling) and ceiling thickness
 - Verify field lengths of cove or perimeter lighting. These fixtures must not be dimensioned from lighting plans
 - Identify fire rated ceiling or floor assemblies and provide fire rated enclosures for fixtures to be installed in these conditions
 - Identify insulated ceiling areas and provide IC rated housing options for fixtures to be installed in these conditions. Contractor shall notify the Lighting Designer if an IC option is not available for the specified fixture(s).
- Lamps or LED light engines shall be installed as outlined in the fixture schedule below.
- Ceiling thicknesses in excess of 3/4" shall be identified in writing by the Architect or Contractor.
- Walls directly illuminated (e.g. "wall grazing" or perimeter lighting systems) shall be a Level 5 finish, as defined in Gypsum Association GA 216-96.
- The Architect and Lighting Designer shall approve fixture substitutions prior to bid, in accordance with section 26 00 00 specifications. If non-specified or non-approved alternates are installed, they shall be replaced at the Contractors sole expense (including backcharges by other trades such as drywall, painting, etc.), with no additional cost to the owner.
- Contractor or Purchaser to supply all necessary parts, pieces and mounting brackets as necessary for a fully functioning and properly installed fixture. Refer to detail drawings for additional comments.
- All remote power supplies:
 - To be mounted in an accessible, concealed, dry, well ventilated location, within manufacturer recommendations and distance
 - All fixtures on a control zone to have equal length wire to the power supply.
 - Contractor to provide fully code compliant LED system, Contractor to coordinate any necessary additional parts or enclosures (such as NEMA rated enclosures) for the power supply and fixtures to be code compliant.
- Dimming types:
 - NON – Standard dimmer module configured to function as Non-Dim.
 - TRIAC – Forward phase dimming module, traditionally used for Incandescent, Halogen, or Mark 10 Fluorescent, 2-wire.
 - MLV – Forward phase dimming module for magnetic low voltage, 2-wire.
 - ELV – Reverse Phase dimming module, for electronic low voltage, 2-wire.
 - 0-10V – 0-10V dimming module with switched mains power (class 1) and low voltage intensity control (class 2), 4-wire.
 - HI-LUME – Specialized dimming module for use with Lutron HI-Lume dimming drivers, 3-wire, all class 1.
 - ECO – Specialized dimming module for Lutron Ecosystem dimming drivers with switched mains power (class 1) and proprietary digital control cables (class 2), 4-wire.
 - DALI – Digital dimming module with switched mains power (class 1) and digital control cables (class 2), 4-wire.
- NON+DMX – Fixture requires normal non-dim switched mains power IN ADDITION TO serial data DMX signal from lighting control system. DMX interface will require additional control hardware and configuration. The services of a qualified lighting Systems Integrator is highly recommended.
- DIM – Dimming requirements are not known; dimmer type TBD by lamp and / or driver/power supply selection.

Latest revisions HIGHLIGHTED

TYPE	DESCRIPTION	SHORT DESCRIPTION	MANUFACTURER & CATALOG #	LIGHT SOURCE	WATTS	VOLTS	LOAD TYPE	DIM TYPE	REMARKS
AL1	Stake-mounted landscape uplight with glare shield and: • Optics: 35° • Dimensions: 2.45"Ø x 8.65"L • Transformer: remote, dimming	Landscape Uplights	Aspen LED • Luminaire: ASPEN-A-P2-90-27K-12-35-WSL-KM-C3-(FINISH) • Mount: PM60C	Integral LED • CCT: 2700K • CRI: 90 • Lumens: 935	12 max.	12	LED	MLV	• Conceal remote transformer in accessible, ventilated location. • Uplights may be subject to curfew dimming controls - circuit accordingly. • Contractor may specify alternative mounting accessories. • Contractor to provide a remote transformer.
DP1	Decorative pendant, suitable for exterior, with: • Dimensions: 26"Ø x 16.5"H • Rating: wet	Exterior Pendants	Hinkley Lighting Finn 12395OZ	(5) Green Creative 5.5FB11DIM/927/R • CCT: 2700K • CRI: 92 • Lumens: 500 • Watts: 5.5 • Base: E12 candelabra	300 max.	120	LED	ELV	• Confirm selection and mounting height with Architect.
DW1	Decorative wall sconce, suitable for exterior, with: • Dimensions: 28.5"H x 4.75"W x 4" Proj. • Rating: wet, darksky	Exterior Decorative Sconce	Hinkley Lighting Mist 1225BZ	(1) Green Creative 6GU10DIM/827 FL40 • CCT: 2700K • CRI: 82 • Lumens: 550 • Watts: 6 • Base: GU10 • Beam: 40°	6.5	120	LED	ELV	• Confirm selection and mounting height with Architect.
DW2	Downlight wall sconce, suitable for exterior, with: • Dimensions: 4.5"H x 4.5"W x 6.7" Proj. • Rating: wet, darksky	Exterior Decorative Sconce	Tech Lighting Bowman 4 700WSBOW 4 Z LED827	Integral LED • CCT: 2700K • CRI: 90+ • Lumens: 696	17.8	120/277	LED	ELV	• Confirm selection and mounting height with Architect.
FS1	Downlight wall sconce, suitable for exterior, with: • Dimensions: 4.5"H x 4.5"W x 6.7" Proj. • Rating: wet, darksky	Trellis Downlights	Tech Lighting Bowman 4 700WSBOW 4 Z LED827	Integral LED • CCT: 2700K • CRI: 90+ • Lumens: 696	17.8	120/277	LED	ELV	• Confirm selection and mounting height with Architect.
GH1	Ingrade uplight with: • Optic: adjustable 15°-60° • Trim: 4.625" round, bronze • Recessed Depth: 6.25" • Accessory: concrete pour kit, where needed • Rating: outdoor • Driver: integral, onboard dimming and beam adjustment	Ingrade Uplights - SP	WAC Lighting • Luminaire: 5032 30 BZ • Concrete Pour Kit: 5030-PIP-PVC (if needed)	Integral LED • CCT: 3000K • CRI: 85 • Lumens: 65-515	11.5 max.	120	LED	NON (onboard)	• Set to 7w output, 15° beam, which may be adjusted during aiming session. • Confirm mounting conditions prior to ordering. • Uplights may be subject to curfew dimming controls - circuit accordingly.
GH2	Ingrade uplight with: • Optic: adjustable 15°-60° • Trim: 4.625" round, bronze • Recessed Depth: 6.25" • Accessory: concrete pour kit, where needed • Rating: outdoor • Driver: integral, onboard dimming and beam adjustment	Ingrade Uplights - FL	WAC Lighting • Luminaire: 5032 30 BZ • Concrete Pour Kit: 5030-PIP-PVC (if needed)	Integral LED • CCT: 3000K • CRI: 85 • Lumens: 65-515	11.5 max.	120	LED	NON (onboard)	• Set to 12w output, 60° beam, which may be adjusted during aiming session. • Confirm mounting conditions prior to ordering. • Uplights may be subject to curfew dimming controls - circuit accordingly.

TYPE	DESCRIPTION	SHORT DESCRIPTION	MANUFACTURER & CATALOG #	LIGHT SOURCE	WATTS	VOLTS	LOAD TYPE	DIM TYPE	REMARKS
PH1	12' exterior pole-mounted downlight cylinder with: • Optics: type IV downlight • Dimensions: 10.7"H x 7.3"Ø • Rating: IP65, IK08, B1-U0-G1 • Driver: integral, dimming	Pedestrian Pole Light	Ligman USA Tango 36 Single Head Post Top • Luminaire: UTA-20011 38w T4 W30 (finish color) 120/277V DIM • Pole: SC76 (finish)	Integral LED • CCT: 3000K • CRI: 80+ • Lumens: 2777	38	120-277	LED	0-10V	• Confirm selection with Architect. • Provide concrete base as needed.
RD1	Recessed LED downlight, suitable for exterior, with: • Housing: new construction • Optic: 25° • Bevel: black, 4.625"Ø with regressed lens • Trim: flanged • Ceiling Thickness: 0.5"-1.5" • Recessed Depth: 4" • Driver: integral, dimming	Recessed Downlights for Exterior	Aculux Initia • Housing: INIT3 D 08LM 27K 90CRI 25D FPC 120 • Trim: NT3DBV BD BLSF WSOL	Integral LED • CCT: 2700K • CRI: 90+ • Lumens: 854	8	120	LED	TRIAC	• Confirm trim and finish.
SS1	Surface mounted LED tapeligh, suitable for exterior, with: • Optics: 120°, downlight • Mounting: flat channel, wall • Lens: frosted white • Dimensions: 1.4"H x 1.7"W • Max Continuous Run: 50' • Field Cutable: 4" OC • Rating: wet • Driver: remote, dimming	Exterior Tapeligh	Kelvix Max 200 (Outdoor) • Tape: JMX27K-WR-24V • Channel: CH219N-2-WH-CP-EC • Driver: HLV96	Integral LED • CCT: 2700K • CRI: 90+ • Lumens: 220/ft	1.9 /ft	24	LED	MLV	• Do not dimension lengths from lighting documents. • Install end-to-end with no visible gaps between fixtures. • Provide all necessary mounting and connecting hardware for a complete installation. • Conceal remote driver in ventilated, accessible location.

End of Fixture Schedule



CATALOG NUMBER _____

NOTES _____

TYPE _____



Specifications	
Weight:	1.6 lbs.
H:	5.85" (149mm) w/C1
	6.79" (172mm) w/C2
	8.65" (220mm) w/C3

ASPEN LED

12V/120V LED

HIGHLIGHTS

- Accent lights are suitable for a variety of mounting applications including ground, wall, tree, sign and architectural accents
- Suitable for wet locations
- Integral driver for 120V
- Dimmable using standard Triac dimmer for 120V and dimmable using standard MLV dimmer and magnetic transformer for 12V
- Tapered-sure lock
- Available in 80CRI and 90CRI
- 1,100lm



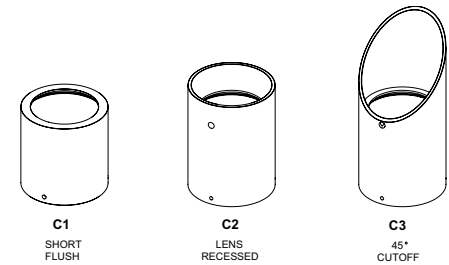
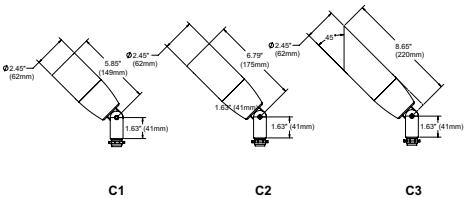
5
YEAR
warranty

66
IP RATED

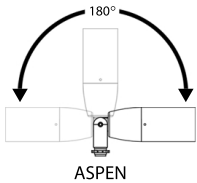


Buy American

DIMENSIONS



AIMING DETAILS

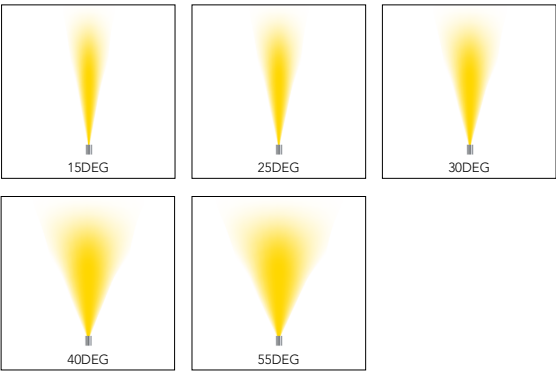


LUMEN PACKAGES

	15DEG	20DEG	25DEG	30DEG	35DEG	40DEG	45DEG	50DEG	55DEG
Delivered Lumens	685	623	659	642	674	656	634	639	641
Watts	11	11	11	11	11	11	11	11	11
LPW	62	57	60	58	61	60	58	58	58
Peak Candela	5,056	2,725	2,827	1830	1569	1212	982	742	664

Note: Information based on 4000K @ P1, 80CRI, 120 Volt with C1 cap and FLC lens

STANDARD DISTRIBUTION



© 2014-2022 Acuity Brands Lighting, Inc. • One Lithonia Way, Conyers GA 30012
Phone: 800-705-SERV (7378) • www.hydrel.com

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ORDERING INFORMATION

EXAMPLE: ASPEN SS P1 80CRI 30K 12 20DEG WSL KM C1 BL

ASPEN									
Series*	Material*	Performance Packages*	CRI*	Color Temperature*	Voltage*	Distribution*	Lens*	Mounting*	
ASPEN	A Aluminum	P1	80CRI	27K	12 ¹ 12Vac	15DEG 15° 40DEG 40°	FLC Flat Clear	KM	Knuckle
	BR Brass	P2	90CRI	30K	120 ² 120Vac	20DEG 20° 45DEG 45°	WSL Watershed	350R	350° rotational knuckle
	SS Stainless Steel	Note: P2 only available with 12volt		35K	Note: 120V only available with P1				
				40K		25DEG 25° 50DEG 50°			
				50K	Note: 35k and 50K only available with 80CRI		35DEG 35°		
Mounting Accessories <i>Optional</i>				Options ⁴ <i>Optional</i>		External Caps*		Finish*	
Independent Mounting				Internal Louver		C1 Short Flush		All Material	
JBA	Aluminum J-Box			S3 ³ 3" Stem		C2 Recessed Lens		BL	Black Textured
JBB	Bronze J-Box Architectural			S6 ³ 6" Stem		C3 45° Angle Cut		BRS	Bronze Smooth
ARJB	J-Box, Aluminum			S__ ³ 12" - 24" stems, available in 6" increments				BRT	Bronze Textured
CN4	4" rectangular canopy			S3BR ⁴ 3" Stem Brass		L1	Prismatic Lens	DBL	Black Smooth
CN4BR	4" rectangular canopy, brass			S6BR ⁴ 6" Stem Brass		L2	Linear Spread Lens	DDB	Designer Bronze
CN5	5" round canopy			S__BR ⁴ 12" - 24" stems, available in 6" increments		L3	Softening Lens	DNA	Natural Aluminum
CN5BR	5" round canopy, brass					Internal Filters		NBS ⁷	Natural Bronze Smooth
CN5SS	5" round canopy, stainless					FA	Amber	STG	Steel Gray
WMC	Wall Mount Cover			Extended Arms⁵		FG	Green	VET	Verde Textured
WMSA	Wall Mount with Splice Access			EA__ 12", 24" or 36"		FGD	Green Dichroic	WH	White Textured
STK ⁸	Mounting Stake			EA45__ 45" - 12", 24" or 36"		FLB	Light Blue	WHS	White Smooth
TRA ⁸	Tree Mounted J-Box, Aluminum			EA90__ 90" - 12", 24" or 36"		FM	Mercury Vapor	CF	Custom Finish
TRB ⁸	Tree Mounted J-Box, Bronze					FMB	Medium Blue	RALTB	Ral Paint Finishes
_TRAS ⁸	Tree Mounted J-Box with Aluminum mounting strap, available with 1-4 JBoxes per strap					FMBD	Medium Blue Dichroic	_Z ⁹	Zinc Undercoat (i.e. BLZ)
_TRBS ⁸	Tree Mounted J-Box with Bronze mounting strap, available with 1-4 JBoxes per strap					FR	Red		
						FRD	Red Dichroic		
PM60A ⁸	Adjustable Post Mount								
PMBR60A ⁸	Adjustable Post Mount - Bronze								
PM60C	Post Mount with Conduit								
PMBR60C	Post Mount with Conduit - Bronze								
PM60D ⁸	Post Mount with Open Bottom								
PMBR60D ⁸	Post Mount with Open Bottom - Bronze								

*Required Fields

Notes:

- 1 Remote transformer required. Options for [remote transformers](#).
- 2 Integral Driver.
- 3 Aluminum stems only compatible with PM60A, PM60C and PM60D.
- 4 Brass stems only compatible with PMBR60A, PMBR60C and PMBR60D.
- 5 Extended arms compatible with WMC and WMSA.
- 6 Up to 2 options can be specified.
- 7 NBS paint uses specialty pigments to give a natural appearance that may vary by fixture.
- 8 Only available with 12 volt.
- 9 Zinc undercoat for harsh environments



PERFORMANCE DATA

LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		27K (2700K, 80CRI)			30K (3000K, 80CRI)			35K (3500K, 80CRI)			40K (4000K, 80CRI)			50K (5000K, 80CRI)		
			°H	°V	°H	°V	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW
P1 12 Volt	8	15DEG	33	33	19	19	5,180	702	88	5,374	728	91	5,471	741	93	5,665	768	96	5,858	794	99
		20DEG	45	45	22	22	2,792	639	80	2,897	663	83	2,949	675	84	3,053	699	87	3,158	722	90
		25DEG	44	44	24	24	2,897	675	84	3,005	700	88	3,060	713	89	3,168	738	92	3,276	764	96
		30DEG	56	56	30	30	1,875	658	82	1,945	682	85	1,980	694	87	2,050	719	90	2,120	744	93
		35DEG	57	56	37	36	1,608	691	86	1,668	717	90	1,698	729	91	1,758	755	94	1,818	781	98
		40DEG	65	64	41	40	1,242	672	84	1,288	697	87	1,311	710	89	1,358	735	92	1,404	760	95
		45DEG	74	73	45	44	1,006	650	81	1,044	674	84	1,063	686	86	1,100	711	89	1,138	735	92
		50DEG	86	85	53	51	760	654	82	788	679	85	802	691	86	831	716	90	859	740	93
		55DEG	93	93	56	54	681	657	82	706	682	85	719	694	87	744	719	90	770	743	93
		55DEG	93	93	56	54	681	657	82	706	682	85	719	694	87	744	719	90	770	743	93
P2 12 Volt	12	15DEG	33	33	19	19	7,012	950	79	7,274	986	82	7,405	1,003	84	7,667	1,039	87	7,930	1,074	90
		20DEG	45	45	22	22	3,780	865	72	3,921	897	75	3,992	913	76	4,133	945	79	4,274	978	82
		25DEG	44	44	24	24	3,921	914	76	4,068	948	79	4,141	965	80	4,288	999	83	4,435	1,033	86
		30DEG	56	56	30	30	2,538	890	74	2,632	923	77	2,680	940	78	2,775	973	81	2,870	1,006	84
		35DEG	57	56	37	36	2,176	935	78	2,257	970	81	2,298	987	82	2,379	1,022	85	2,461	1,057	88
		40DEG	65	64	41	40	1,681	909	76	1,744	943	79	1,775	960	80	1,838	994	83	1,901	1,028	86
		45DEG	74	73	45	44	1,362	880	73	1,413	912	76	1,438	929	77	1,489	962	80	1,540	995	83
		50DEG	86	85	53	51	1,029	886	74	1,067	919	77	1,086	935	78	1,125	968	81	1,163	1,002	84
		55DEG	93	93	56	54	921	889	74	956	923	77	973	939	78	1,007	973	81	1,042	1,006	84
		55DEG	93	93	56	54	921	889	74	956	923	77	973	939	78	1,007	973	81	1,042	1,006	84

Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		27K (2700K, 80CRI)			30K (3000K, 80CRI)			35K (3500K, 80CRI)			40K (4000K, 80CRI)			50K (5000K, 80CRI)		
			°H	°V	°H	°V	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW
P1 120 Volt	11	15DEG	33	33	19	19	4,568	619	56	4,710	638	58	4,755	644	59	5,056	685	62	5,078	688	63
		20DEG	45	45	22	22	2,463	563	51	2,539	581	53	2,563	586	53	2,725	623	57	2,737	626	57
		25DEG	44	44	24	24	2,555	595	54	2,634	614	56	2,659	620	56	2,827	659	60	2,840	662	60
		30DEG	56	56	30	30	1,653	580	53	1,704	598	54	1,721	603	55	1,830	642	58	1,838	645	59
		35DEG	57	56	37	36	1,418	609	55	1,461	628	57	1,475	634	58	1,569	674	61	1,576	677	62
		40DEG	65	64	41	40	1,095	592	54	1,129	611	56	1,140	617	56	1,212	656	60	1,217	659	60
		45DEG	74	73	45	44	887	573	52	915	591	54	924	596	54	982	634	58	986	637	58
		50DEG	86	85	53	51	670	577	52	691	595	54	697	601	55	742	639	58	745	641	58
		55DEG	93	93	56	54	600	580	53	619	597	54	625	603	55	664	641	58	667	644	59
		55DEG	93	93	56	54	600	580	53	619	597	54	625	603	55	664	641	58	667	644	59

CRI SCALING	Multiplier
90CRI	0.83
Note: Information based on ASPEN 12 volt	
CRI SCALING	Multiplier
90CRI	0.77
Note: Information based on ASPEN 120 volt	
EXTERNAL CAP	Multiplier
C2	0.70
C3	0.965

OPERATING TEMPERATURE: -20°C through 45°C (120v, Aluminum Material)
 -20°C through 50°C (12v, Aluminum Material)
 -20°C through 30°C (120v and 12v, Stainless Steel and Brass Material)

PHOTOMETRIC DIAGRAMS

To see complete photometric reports or download .ies files for this product, visit www.hydrel.com



FEATURES & SPECIFICATIONS

MATERIAL: Body, caps and knuckle machined from 6061-T6 aluminum. BR - machined from 360 brass. SS- machined from 304 stainless steel.

LIGHT SOURCE: Proprietary high output LED's. Units have near constant light output when supplied with 11VAC-14VAC to combat voltage drop. All within 3 MacAdam ellipses.

VOLTAGE: 12 Volt AC, 120 volt AC.

DISTRIBUTION: Available 15DEG, 20DEG, 25DEG, 30DEG, 35DEG, 40DEG, 45DEG, 50DEG, 55DEG

LENS: FLC - Cut from heat strengthened borosilicate glass for superior clarity and strength. WSL - Molded heat strengthened borosilicate glass for superior clarity and strength, where the glass and the top of the door are flush to allow water to shed off the fixture.

MOUNTING: Knuckle to mount to 7/8" thru hole.

POWER SUPPLY: Remote 12VAC transformer, purchased separately. For 120VAC driver is integral. 12VAC dimmable using a remote magnetic transformer. 120V AC dimmable using a standard Triac dimming switch/systems.

FINISH: Super durable polyester TGIC powder coat finish (standard). Optional zinc undercoat for harsh environments.

FEATURES: Tapered "Sure Lock" knuckle seat for infinite aiming and an unparalleled locking ability. Any combination of up to 2 lens accessories/color filter/shielding can be specified in any cap style and are held securely by a removable stainless steel clip ring.

BUY AMERICAN: Hydrel products are assembled in the USA. Our products meet the Buy America(n) government procurement requirements under FAR, DFARS, and DOT. Please refer to www.acuitybrands.com/resources/buy-american

LISTING: cCSAus, Wet location. Laboratory tests conducted by CSA to UL Standards UL-1598, UL-8750 and UL-1838. IP66 Rated.

WARRANTY: 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Consult factory for details

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



REMOTE TRANSFORMERS

Transformers may be loaded to 100% capacity, however the recommended load range for optimal efficiency is 40-80%.

Non-Isolated Transformers: Suitable for use with landscape type lighting

Isolated Transformers: Suitable for use with underwater and landscape type lighting

		Part #
	<ul style="list-style-type: none"> • 10 and 20 watts, 120V to 12VAC or 277V to 12VAC magnetic • Must be mounted in a listed weatherproof enclosure • Dimmable by using a magnetic low voltage dimmer switch • Non-Isolated • Suitable for LED 	Examples: TM10 120 TM10 277 TM20 120 TM20 277 See spec sheet for more options
	<ul style="list-style-type: none"> • 100 watts, 120V to 12VAC or 277V to 12VAC magnetic • Rated for outdoor surface mount, minimum of 12" above finished grade with the wire connection terminals facing down • Resettable circuit breaker • Two 1/2" knock-outs in the side • Dimmable by using a magnetic low voltage dimmer switch • Non-Isolated • Suitable for LED 	Example: TM100 120 TM100 277 See spec sheet for more options
	<ul style="list-style-type: none"> • 200, 300, 600 and 900 watts, 120V to 12VAC or 277V to 12VAC magnetic • Rated for outdoor surface mount, minimum of 12" above finished grade with the wire connection terminals facing down • Multi-tap secondary output allowing 12-15 Volt • Internal on/off switch-circuit breaker • Five "knock-outs" in the bottom cover plate (two 1/2", two 3/4" and one 1-1/2") • Dimmable by using a magnetic low voltage dimmer switch • Non-Isolated • Suitable for LED 	Example: TM200 120 TM200 277 TM300 120 TM300 277 TM600 120 TM600 277 TM900 120 TM900 277 See spec sheet for more options
	<ul style="list-style-type: none"> • 15watts, 120V to 12VAC, electronic • Maximum remote distance is 10' • Non-Isolated Suitable for LED 	Example: TE15 120 See spec sheet for more options
	<ul style="list-style-type: none"> • 60 and 75 watts 120V to 12VAC or 277V to 12VAC electronic • Maximum remote distance is 10' • Non-Isolated Suitable for LED 	Examples: TE60 120 TE75 120 TE75 277 See spec sheet for more options







REMOTE TRANSFORMERS

Transformers may be loaded to 100% capacity, however the recommended load range for optimal efficiency is 40-80%.

Non-Isolated Transformers: Suitable for use with landscape type lighting

Isolated Transformers: Suitable for use with underwater and landscape type lighting

		Part #
	<ul style="list-style-type: none"> • Stepdown transformers are two winding isolated type • Two separate wiring compartments isolate primary and secondary leads • Housed in weatherproof enclosure • Meets requirements of article 680 N.E.C. Listed by U.L. • 100 watt 120/12,13,14 ac (T1901) • 300 watt 120/12,13,14 ac (T1903) • 900 watt 120,12,13,14 ac (T1904) • 500 watt 120/12,13,14 ac (T1905) • Dimmable by using magnetic low voltage dimmer switch • Isolated - can be used near underwater application • Suitable for LED 	Examples: T1901 (100watts) T1903 (300watts) T1904 (900 watts) T1905 (500 watts) See spec sheet for more options
	<ul style="list-style-type: none"> • Ground power post mount • 15 watts, 120V to 12V AC, electronic • Non-Isolated, suitable for LED • Non-Dimmable • Stem length available from 3" to 36" 	Examples: PM60B ET15 120 S3 BL PMBR60B ET15 120 S6 POL See spec sheet for more options
	<ul style="list-style-type: none"> • Wall mount power box • 15 watts, 120V to 12V AC, electronic • 20 watts, 120V to 12V AC, magnetic • ET15 - Electronic is non-dimmable • M20 - Magnetic is dimmable using low voltage magnetic dimmer switch • Non-isolated, suitable for LED 	Examples: WP2J ET15 120 12C BL WP2S M50 120 34C BRS See spec sheet for more options
	<ul style="list-style-type: none"> • 300 watt • A combination junction box and transformer box • Box includes a junction box, transformer housing, and anti-wicking chamber to prevent water being drawn from the conduit into the transformer housing • Completely pre-wired with interconnecting leads which are terminated and embedded in high temperature sealing compound to prevent wicking • M300 watt 120 or 277 volt can be used with LED 12VAC • M300 Dimmable using low voltage magnetic dimmer switch • Suitable for LED • Non-Isolated 	Examples: BPTA or BPTB See spec sheet for more options



ACCENT MOUNTING ACCESSORIES

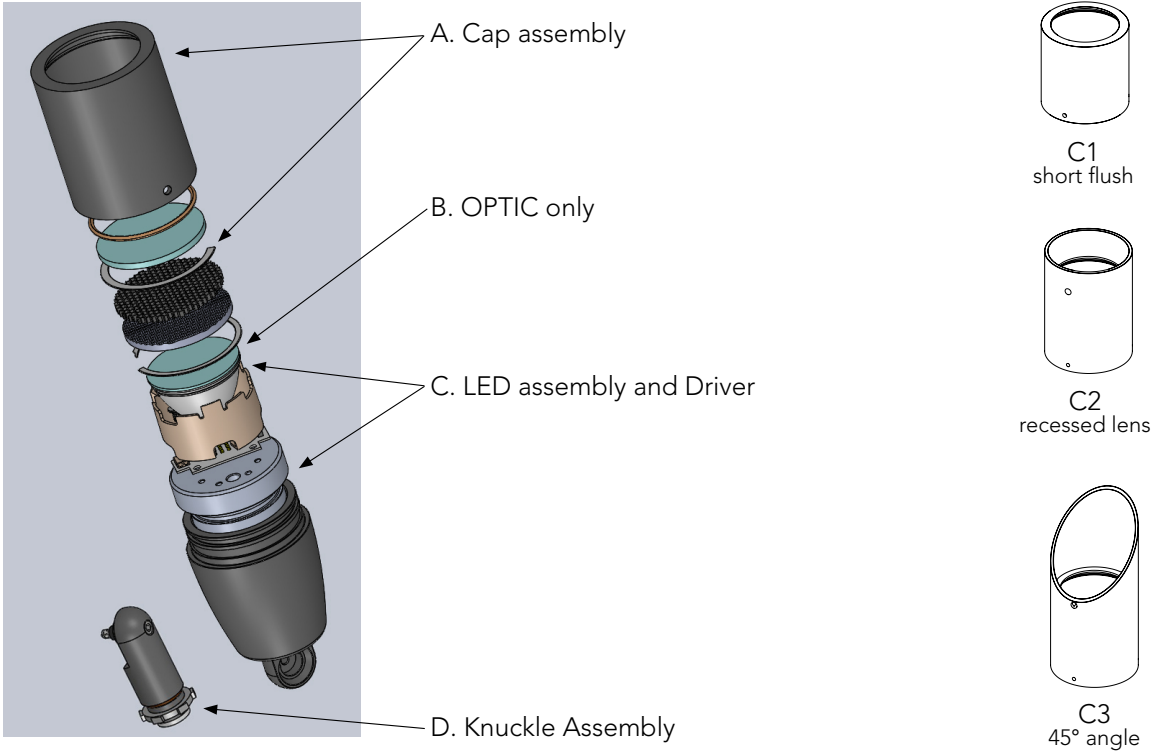
		Part #
	<ul style="list-style-type: none"> JBA/JBB Junction box for direct fixture mounting Available in cast bronze or aluminum Used where splicing is required for single or multiple fixtures Drilled and tapped to specified requirements May be Ground or wall mounted 	Examples: JBA 34E 34F 78G BL JBB 12A 12C 78G See spec sheet for more options
	<ul style="list-style-type: none"> ARJB Architectural Junction Box Available in cast aluminum For direct mounting of a single lighting fixture Designed for architectural and landscape application Recommended for mounting on a rigid metallic conduit 	Example: ARJB 12B 78C BL See spec sheet for more options
	<ul style="list-style-type: none"> CN4 wall plate canopy Available in aluminum or brass Shape rectangular to mount over a standard switch box Thru hole sized for standard 1/2 pipe thread Fixtures secured via locking nut (for thru hole) or threaded knuckle 	Example: CN4 78C BL See spec sheet for more options
	<ul style="list-style-type: none"> CN5 wall mount canopy Available in Aluminum, Brass or stainless steel Shape round to mount over a standard 4" round or octagonal box. Thru hole sized for standard 1/2 pipe thread Fixture secured via locking nut (for thru hole) or threaded knuckle 	Example: CN5 78C BL See spec sheet for more options
	<ul style="list-style-type: none"> WMC wall mount cover Available in cast aluminum Wall mount cover or mounting fixture over wall box (by others) 	Examples: WMC 78C BL See spec sheet for more options
	<ul style="list-style-type: none"> WMSA wall mount splice access Available in cast aluminum Wall mount with splice access plate for mounting a variety of fixtures Integral splice access compartment for easy fixture connections To be mounted over a recessed wall box 	Example: WMSA 78C BL See spec sheet for more options


ACCENT MOUNTING ACCESSORIES

		Part #
	<ul style="list-style-type: none"> TRA/TRB tree mount junction box Available in cast aluminum or bronze Includes a splice box with a mounting plate Placement of small accent fixtures around or on a structure, like a tree 	Examples: TRA 12B 78C BL TRB 12B 78C See spec sheet for more options
	<ul style="list-style-type: none"> TRAS/TRBS tree mount junction box with strap. Available in cast aluminum or bronze Includes one or more splice boxes with a polypropylene strap Placement of small accent fixtures around the trunk or branch of a tree 	Examples: 2TRAS 12B 78C DDB 1TRBS 12B 78C See spec sheet for more options
	<ul style="list-style-type: none"> STK ground mounting stake Low voltage portable installations only UV Stable plastic 	Example: STK See spec sheet for more options
	<ul style="list-style-type: none"> Post Mounts PM60A, PM60C and PM60D Ground Mounting posts Available in aluminum or brass Suitable for fixtures with 1/2" knuckles Fixtures are secured with a locking nut PM60A and PM60D are used only with low volt fixtures PM60C can be used with low or line voltage fixtures Optional stems are offered in lengths from 3" to 36" 	Examples: PM60A S3 BL PMBR60C S12BR BRS PM60D BL See spec sheet for more options
	<ul style="list-style-type: none"> EA-Extended Arms Available in lengths 12", 24" and 36" Available in angles 45° and 90° Material available in aluminum Extended arms are compatible with WMC and WMSA wall mounts 	Examples: WMC EA12 12C BL WMSA EA4512 12C BRS
	<ul style="list-style-type: none"> Tree Ring TRAR 2FX, TRAR 3FX, TRAR 4XF, TRAR 5FX, TRAR 6FX Stainless Steel Ring and Hardware Can accommodate trees between 10" to 15" in diameter Available in 2, 3, 4, 5 and 6 fixture configurations 	Examples: TRAR 5FX 12S 12C BL TRAR 3FX 12S 12C BRS Note: TRAR is sold separately. See spec sheets for options



ASPEN SPARE PARTS LIST






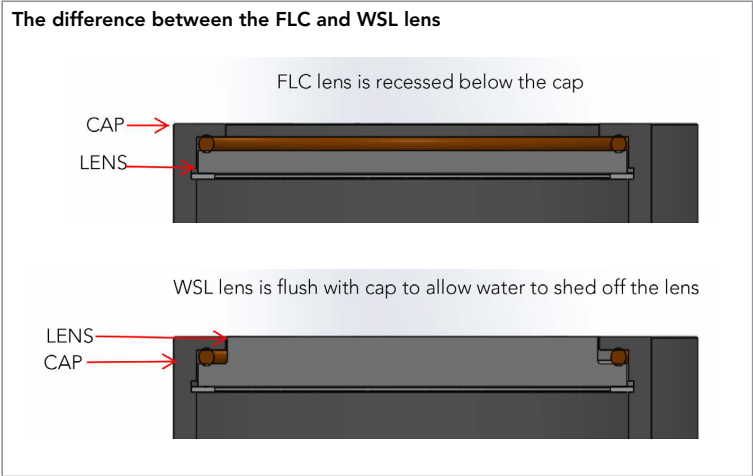
Part Number	Description
A. Cap Assembly CAPAASPEN C1 XX ¹ XXX ² XXX ³ CAPAASPEN C2 XX ¹ XXX ² XXX ³ CAPAASPEN C3 XX ¹ XXX ² XXX ³ 1. Available material finishes: A, BR, SS 2. Available lens: FLC, WSL 3. Add paint finish	Cap Assembly will include the cap, lens and o-ring
B. OPTIC only OPTASPEN XX ¹ 1. Available distributions: 15DEG, 20DEG, 25DEG, 30DEG, 35DEG, 40DEG, 45DEG, 50DEG, 55DEG	One piece snap on optic only
C. LED Assembly+ Driver module LEDAASPEN XX ¹ XXX ² XXX ³ XXX ⁴ XXX ⁵ 1. Available Performance Packages: P1, P2 2. Available CRI: 80CRI, 90CRI 3. Available colors: 27K, 30K, 35K, 40K, 50K 4. Available voltage: 12, 120 5. Available distributions: 15DEG, 20DEG, 25DEG, 30DEG, 35DEG, 40DEG, 45DEG, 50DEG, 55DEG	Includes LED array, optics, encapsulated driver (120v)
D. KAASPEN XX ¹ XXX ² XXX ³ 1. Available material finishes: A, BR, SS 2. Available knuckle: KM, 350R 3. Add paint finish	Knuckle Assembly



ASPEN INTERNAL ACCESSORIES

Internal Accessories can be ordered separate and are field replaceable

	INTERNAL HONEYCOMB LOUVER <ul style="list-style-type: none">• Hexagonal cell louver with 45° cut-off• includes retaining ring	Example: IHLASPEN
	INTERNAL ACCESSORY LENSES <ul style="list-style-type: none">• L1 Prismatic Lens• L2 Linear Spread Lens• L3 Softening Lens• includes retaining ring	Examples: LAASPEN L1 LAASPEN L2 LAASPEN L3
	INTERNAL COLORED FILTERS <ul style="list-style-type: none">• FA Amber• FG Green• FGD Green Dichroic• FLB Light Blue• FM Mercury Vapor• FMB Medium Blue• FMBD Medium Blue Dichroic• FR Red• FRD Red Dichroic• includes retaining ring	Examples: CFASPEN FA CFASPEN FG CFASPEN FGD CFASPEN FLB CFASPEN FM CFASPEN FMB CFASPEN FMBD CFASPEN FR CFASPEN FRD



OPEN AIR™
collection



PRODUCT DETAILS:

- This chain or cable hung fixture may be installed on any sloped ceiling
- Suitable for use in wet (outdoor direct rain or sprinkler) locations as defined by NEC and CEC. Meets United States UL Underwriters Laboratories & CSA Canadian Standards Association Product Safety Standards
- Ideal for vintage filament bulbs (not included)
- 2 year finish warranty
- The stylish Open Air collection includes outdoor-rated chandeliers, pendants and sconces that provide design-conscious solutions to a variety of exterior environments.
- Classic, modern style with a nautical flair adds elegance to a variety of exteriors
- Bold and robust dark bronze finish

FINN

123950Z

MEDIUM SINGLE TIER

Finn fuses contemporary style and California coastal modern, making it ideal for either indoor or outdoor living. Finn features a warm wood finish with a jute rope inspired metal that has been handcrafted to reinforce the true coastal vibe. Finn is available in an Oil Rubbed Bronze with Sequoia finish.

DETAILS	
FINISH:	Oil Rubbed Bronze
MATERIAL:	Aluminum
GLASS:	Clear Seedy
SLOPE DEGREE:	90

DIMENSIONS	
WIDTH:	26"
HEIGHT:	16.5"
WEIGHT:	17lb

LIGHT SOURCE	
LIGHT SOURCE:	Socket
WATTAGE:	5-60w Cand.
VOLTAGE:	120v

MOUNTING	
CANOPY:	5.5" Dia.
LEAD WIRE:	1 X 72"

SHIPPING	
CARTON LENGTH:	28.5
CARTON WIDTH:	28.5
CARTON HEIGHT:	19.2
CARTON WEIGHT:	25.3

HINKLEY

HINKLEY
33000 Pin Oak Parkway
Avon Lake, OH 44012

PHONE: (440) 653-5500
Toll Free: 1 (800) 446-5539

hinkley.com

Project Name:	Type:
Part Number:	Date:



PREMIUM FILAMENT DECO. FAMILY

FEATURES

- Suitable to replace 40W and 60W incandescent
- Vintage look fits most decorative applications
- 320° omnidirectional beam angle
- Smooth dimming with most forward and reverse phase controls*
- Comfortable warm diffused light
- Full glass construction
- Suitable for use in wet locations, not suitable for use in totally enclosed fixtures
- Fixture operating temperature: -13°F to 95°F (-25°C to 35°C)
- Lamp ambient temperature: -13°F to 113°F (-25°C to 45°C)
- Rated Lifetime (L70): 15,000hrs
- 3 year limited warranty**



073021



SPECIFICATIONS

Product	Model	Equiv.	CCT	Finish	Wattage (W)	Lumens (LM)	Efficacy (LPW)	Power Factor	Input Voltage	CRI	Beam Angle	Dim.*	UL Location	Fixture Rating	ES / T20
36061	3.3FB11DIM/927/R	40W	2700K	Clear	3.3	300	91	0.7	120V	92	320°	Yes	Wet	Non-Enclosed	✓ / ✓
36062	3.3FB11DIM/927/E26/R	40W	2700K	Clear	3.3	300	91	0.7	120V	92	320°	Yes	Wet	Non-Enclosed	✓ / ✓
36063	3.3FB11DIM/927/FR/R	40W	2700K	Frosted	3.3	300	91	0.7	120V	92	320°	Yes	Wet	Non-Enclosed	✓ / ✓
36064	5.5FB11DIM/927/R	60W	2700K	Clear	5.5	500	91	0.7	120V	92	320°	Yes	Wet	Non-Enclosed	✓ / ✓
36065	5.5FB11DIM/927/E26/R	60W	2700K	Clear	5.5	500	91	0.7	120V	92	320°	Yes	Wet	Non-Enclosed	✓ / ✓
36066	3.5FBA11DIM/820/FT/A/R	40W	2000K	Amber	3.5	240	69	0.7	120V	82	320°	Yes	Wet	Non-Enclosed	N.A. / N.A.
36067	3.8FG16.5DIM/927/R	40W	2700K	Clear	3.8	350	91	0.7	120V	92	320°	Yes	Wet	Non-Enclosed	✓ / ✓
36068	3.8FG16.5DIM/927/E26/R	40W	2700K	Clear	3.8	350	91	0.7	120V	92	320°	Yes	Wet	Non-Enclosed	✓ / ✓
36069	4FG16.5DIM/820/A/R	40W	2000K	Amber	4	250	63	0.7	120V	82	320°	Yes	Wet	Non-Enclosed	N.A. / N.A.
36070	3.8FG25DIM/927/R	40W	2700K	Clear	3.8	350	92	0.7	120V	92	320°	Yes	Wet	Non-Enclosed	✓ / ✓
36071	4FG25DIM/820/A/R	40W	2000K	Amber	4	250	63	0.7	120V	82	320°	Yes	Wet	Non-Enclosed	N.A. / N.A.
36072	4.5FG25DIM/827/SB/R	40W	2700K	Silver Bowl	4.5	400	89	0.7	120V	82	320°	Yes	Wet	Non-Enclosed	N.A. / N.A.
36073	5.5FG40DIM/927/R	60W	2700K	Clear	5.5	500	91	0.7	120V	92	320°	Yes	Wet	Non-Enclosed	✓ / ✓

* This lamp might not be compatible with all dimmers. Please visit www.greencreative.com for compatibility information.

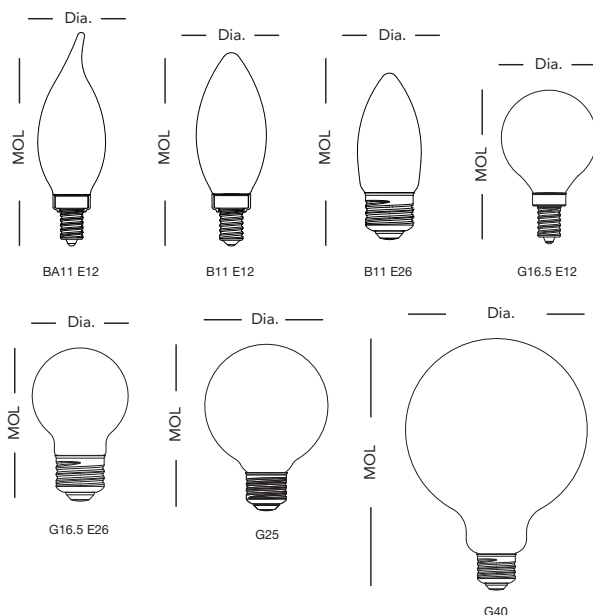
** Please visit www.greencreative.com for Limited Warranty terms.

www.greencreative.com - info@greencreative.com - Tel / Fax: (866) 774-5433 - [f](#) / GREENCREATIVELED [t](#) / GClightingLED [in](#) / GREEN-CREATIVE

An ILLUMUS Brand

PREMIUM FILAMENT DECO. FAMILY

DIMENSION & WEIGHT



Product	Model	Base	MOL	Dia.	Weight
36061	3.3FB11DIM/927/R	E12	3-13/16"	1-3/8"	0.03lb
36062	3.3FB11DIM/927/E26/R	E26	3-9/16"	1-3/8"	0.04lb
36063	3.3FB11DIM/927/FR/R	E12	3-13/16"	1-3/8"	0.03lb
36064	5.5FB11DIM/927/R	E12	3-13/16"	1-3/8"	0.03lb
36065	5.5FB11DIM/927/E26/R	E26	3-9/16"	1-3/8"	0.04lb
36066	3.5FBA11DIM/820/FT/A/R	E12	4-3/8"	1-3/8"	0.03lb
36067	3.8FG16.5DIM/927/R	E12	3-3/16"	1-15/16"	0.04lb
36068	3.8FG16.5DIM/927/E26/R	E26	3-1/4"	2-1/16"	0.04lb
36069	4FG16.5DIM/820/A/R	E12	3-3/16"	1-15/16"	0.04lb
36070	3.8FG25DIM/927/R	E26	4-5/16"	3-1/8"	0.09lb
36071	4FG25DIM/820/A/R	E26	4-5/16"	3-1/8"	0.09lb
36072	4.5FG25DIM/827/SB/R	E26	4-5/16"	3-1/8"	0.09lb
36073	5.5FG40DIM/927/R	E26	6-7/8"	4-15/16"	0.22lb

ORDERING INFORMATION

Model	Product Series	Master Carton			Shipping Carton		
		Case Qty	Case Dimensions (LxWxH)	Case Weight	Case Qty	Case Dimensions (LxWxH)	Case Weight
36061	3.3FB11DIM/927/R	6 PCS	4-15/16" x 3-5/16" x 4-3/4"	0.53lb	24 PCS	10-5/8" x 7-1/2" x 5-5/16"	2.34lb
36062	3.3FB11DIM/927/E26/R	6 PCS	4-15/16" x 3-5/16" x 4-3/4"	0.53lb	24 PCS	10-5/8" x 7-1/2" x 5-5/16"	2.34lb
36063	3.3FB11DIM/927/FR/R	6 PCS	4-15/16" x 3-5/16" x 4-3/4"	0.53lb	24 PCS	10-5/8" x 7-1/2" x 5-5/16"	2.34lb
36064	5.5FB11DIM/927/R	6 PCS	4-15/16" x 3-5/16" x 4-3/4"	0.53lb	24 PCS	10-5/8" x 7-1/2" x 5-5/16"	2.34lb
36065	5.5FB11DIM/927/E26/R	6 PCS	4-15/16" x 3-5/16" x 4-3/4"	0.53lb	24 PCS	10-5/8" x 7-1/2" x 5-5/16"	2.34lb
36066	3.5FBA11DIM/820/FT/A/R	6 PCS	4-15/16" x 3-5/16" x 5-1/8"	0.59lb	24 PCS	6-7/8" x 7-1/16" x 5-7/8"	2.65lb
36067	3.8FG16.5DIM/927/R	12 PCS	6-7/8" x 4-3/4" x 8-7/16"	1.32lb	48 PCS	14-3/8" x 10-1/16" x 9-1/16"	5.69lb
36068	3.8FG16.5DIM/927/E26/R	12 PCS	6-7/8" x 4-3/4" x 8-7/16"	1.32lb	48 PCS	14-3/8" x 10-1/16" x 9-1/16"	5.69lb
36069	4FG16.5DIM/820/A/R	12 PCS	6-7/8" x 4-3/4" x 8-7/16"	1.32lb	48 PCS	14-3/8" x 10-1/16" x 9-1/16"	5.69lb
36070	3.8FG25DIM/927/R	6 PCS	10-7/16" x 7-1/16" x 5-11/16"	1.29lb	24 PCS	21-5/8" x 14-15/16" x 6-11/16"	5.62lb
36071	4FG25DIM/820/A/R	6 PCS	10-7/16" x 7-1/16" x 5-11/16"	1.29lb	24 PCS	21-5/8" x 14-15/16" x 6-11/16"	5.62lb
36072	4.5FG25DIM/827/SB/R	6 PCS	10-5/8" x 7-1/4" x 5-5/16"	1.29lb	24 PCS	21-13/16" x 14-7/8" x 6-1/8"	5.62lb
36073	5.5FG40DIM/927/R	6 PCS	15-15/16" x 10-13/16" x 7-7/8"	2.31lb	12 PCS	16-9/16" x 11-1/4" x 16-9/16"	9.70lb



PREMIUM FILAMENT DECO. FAMILY

CERTIFICATION INFORMATION		
Product	Model	ES ID#
36061	3.3FB11DIM/927/R	2329592
36062	3.3FB11DIM/927/E26/R	2331414
36063	3.3FB11DIM/927/FR/R	2378377
36064	5.5FB11DIM/927/R	2378396
36065	5.5FB11DIM/927/E26/R	2378395
36067	3.8FG16.5DIM/927/R	2378394
36068	3.8FG16.5DIM/927/E26/R	2378387
36070	3.8FG25DIM/927/R	2331415
36073	5.5FG40DIM/927/R	2381717

Note: All rights reserved. All sizes and specifications are subject to change at any time without notice.



MIST

1225BZ

LARGE WALL MOUNT LANTERN

The sleek design of the Mist collection discreetly emphasizes its contemporary heritage. Featuring a prominent interior panel of clear seeded glass captured on both ends and encased in a protective clear acrylic cylinder. Its solid aluminum construction is underscored by bold Satin Black, Bronze or Titanium finish options. Mist is both Dark Sky and ADA compliant.

DETAILS	
FINISH:	Bronze
MATERIAL:	Aluminum
GLASS:	Clear Acrylic Outside Cylinder & Seedy Glass Inside Panel

DIMENSIONS	
WIDTH:	4.8"
HEIGHT:	28.5"
WEIGHT:	6lb
BACK PLATE:	4.75" Sq.
EXTENSION:	4"
TOP TO OUTLET:	14.25"

LIGHT SOURCE	
LIGHT SOURCE:	LED Lamp
WATTAGE:	1-6.50w GU10 LED
VOLTAGE:	120v

SHIPPING	
CARTON LENGTH:	8
CARTON WIDTH:	8
CARTON HEIGHT:	32.5
CARTON WEIGHT:	7

PRODUCT DETAILS:

- Mounting hardware is hidden on the backplate to ensure a clean silhouette
- Suitable for use in wet (outdoor direct rain or sprinkler) locations as defined by NEC and CEC. Meets United States UL Underwriters Laboratories & CSA Canadian Standards Association Product Safety Standards
- Fixture is Dark Sky compliant and engineered to minimize light glare upward into the night sky
- 2 year finish warranty
- Bold lines and a clean, minimalist style complement contemporary architecture
- For LED lamping, a 6.5w GU10 LED lamp is recommended: GU10LED-3K
- Warm rich light bronze tone

HINKLEY

HINKLEY
33000 Pin Oak Parkway
Avon Lake, OH 44012

PHONE: (440) 653-5500
Toll Free: 1 (800) 446-5539

hinkley.com

Project Name:	Type:
Part Number:	Date:



VALUE SELECT MR FAMILY

FEATURES

- Suitable to replace 35W, 50W, 60W Halogen MR16 lamps
- Compatible with most low-voltage electronic transformers
- 35W and 50W models are dimmable with most electronic low voltage dimming controls*
- Compact size 1:1 halogen form factor
- Narrow flood and flood beam angles
- Suitable for use in totally enclosed fixtures
- Suitable for use in damp location
- Fixture operating temperature: -4°F to 95°F (-20°C to 35°C)
- Lamp ambient temperature: -4°F to 113°F (-20°C to 45°C)
- Rated Lifetime (L70): 25,000hrs
- 3 year limited warranty**



120221



SPECIFICATIONS

Product	Model	Equiv.	Wattage (W)	CCT	Lumens (lm)	Efficacy (LPW)	Input Voltage	Beam Angle	CBCP (cd)	CRI	Dim.*	Power Factor	Base	Fixture Rating	ES / JA8 / T20
36200	6.5MR16DIM/827NF25/35W	35W	6.5	2700K	460	71	12V	NF 25°	1,610	82	Yes	0.9	GU5.3	Enclosed	✓ / N.A. / N.A.
36201	6.5MR16DIM/830NF25/35W	35W	6.5	3000K	460	71	12V	NF 25°	1,610	82	Yes	0.9	GU5.3	Enclosed	✓ / N.A. / N.A.
36202	6.5MR16DIM/827FL35/35W	35W	6.5	2700K	460	71	12V	FL 35°	910	82	Yes	0.9	GU5.3	Enclosed	✓ / N.A. / N.A.
36203	6.5MR16DIM/830FL35/35W	35W	6.5	3000K	460	71	12V	FL 35°	910	82	Yes	0.9	GU5.3	Enclosed	✓ / N.A. / N.A.
36204	6.5MR16DIM/927NF25	50W	6.5	2700K	500	77	12V	NF 25°	2,350	92	Yes	0.9	GU5.3	Enclosed	✓ / ✓ / ✓
36205	6.5MR16DIM/930NF25	50W	6.5	3000K	520	80	12V	NF 25°	2,400	92	Yes	0.9	GU5.3	Enclosed	✓ / ✓ / ✓
36206	6.5MR16DIM/940NF25	50W	6.5	4000K	540	83	12V	NF 25°	2,450	92	Yes	0.9	GU5.3	Enclosed	✓ / ✓ / ✓
36207	6.5MR16DIM/927FL35	50W	6.5	2700K	500	77	12V	FL 35°	1,350	92	Yes	0.9	GU5.3	Enclosed	✓ / ✓ / ✓
36208	6.5MR16DIM/930FL35	50W	6.5	3000K	520	80	12V	FL 35°	1,400	92	Yes	0.9	GU5.3	Enclosed	✓ / ✓ / ✓
36209	6.5MR16DIM/940FL35	50W	6.5	4000K	540	83	12V	FL 35°	1,450	92	Yes	0.9	GU5.3	Enclosed	✓ / ✓ / ✓
36210	6GU10DIM/827FL40	50W	6	2700K	550	92	120V	FL 40°	700	82	Yes	0.7	GU10	Enclosed	✓ / N.A. / N.A.
36211	6GU10DIM/830FL40	50W	6	3000K	570	95	120V	FL 40°	750	82	Yes	0.7	GU10	Enclosed	✓ / N.A. / N.A.
36212	6PAR16DIM/827FL35/RC	60W	6	2700K	550	92	120V	FL 35°	1,000	82	Yes	0.7	E26	Enclosed	✓ / N.A. / N.A.
36213	6PAR16DIM/830FL35/RC	60W	6	3000K	570	95	120V	FL 35°	1,050	82	Yes	0.7	E26	Enclosed	✓ / N.A. / N.A.
57984	6MR16DIM/827FL35/R	50W	6	2700K	480	80	12V	FL 35°	1,350	82	Yes	0.9	GU5.3	Enclosed	✓ / N.A. / N.A.
57985	6MR16DIM/830FL35/R	50W	6	3000K	500	83	12V	FL 35°	1,400	82	Yes	0.9	GU5.3	Enclosed	✓ / N.A. / N.A.
57986	6MR16DIM/840FL35/R	50W	6	4000K	520	86	12V	FL 35°	1,450	82	Yes	0.9	GU5.3	Enclosed	✓ / N.A. / N.A.
57991	6PAR16DIM/830FL35/R	60W	6	3000K	500	83	120V	FL 35°	1,050	82	Yes	0.9	E26	Enclosed	✓ / N.A. / N.A.

* This lamp might not be compatible with all dimmers and low-voltage transformers. Please visit www.greencreative.com for compatibility information.

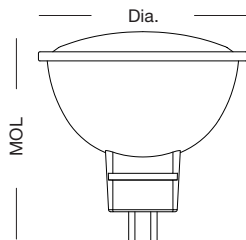
** Please visit www.greencreative.com for Limited Warranty terms.

www.greencreative.com - info@greencreative.com - Tel / Fax: (866) 774-5433 - [f](#) / GREENCREATIVELED [t](#) / GClightingLED [in](#) / GREEN-CREATIVE

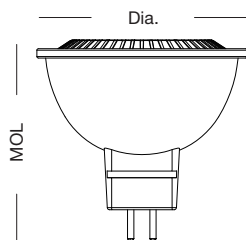
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VALUE SELECT MR FAMILY

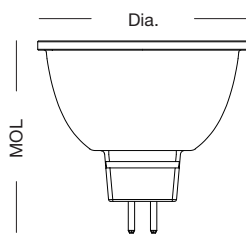
DIMENSIONS & WEIGHT



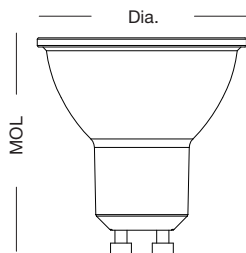
Model	Base	Dia.	MOL	Weight
6.5MR16DIM/827NF25/35W	GU5.3	1-15/16"	2"	0.1lb
6.5MR16DIM/830NF25/35W				



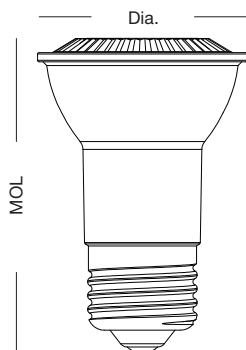
Model	Base	Dia.	MOL	Weight
6.5MR16DIM/827FL35/35W	GU5.3	1-15/16"	1-15/16"	0.09lb
6.5MR16DIM/830FL35/35W				



Model	Base	Dia.	MOL	Weight
6.5MR16DIM/927NF25	GU5.3	1-15/16"	1-13/16"	0.1lb
6.5MR16DIM/930NF25				
6.5MR16DIM/940NF25				
6.5MR16DIM/927FL35				
6.5MR16DIM/930FL35				
6.5MR16DIM/940FL35				



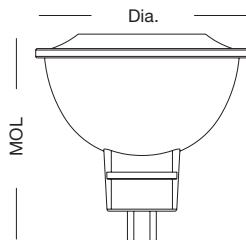
Model	Base	Dia.	MOL	Weight
6GU10DIM/827FL40	GU10	1-15/16"	2-1/16"	0.08lb
6GU10DIM/830FL40				



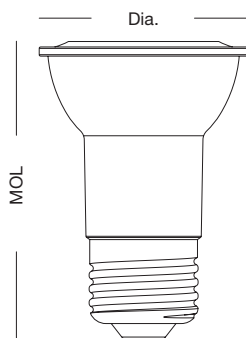
Model	Base	Dia.	MOL	Weight
6PAR16DIM/827FL35/RC	E26	1-15/16"	2-15/16"	0.09lb
6PAR16DIM/830FL35/RC				

VALUE SELECT MR FAMILY

DIMENSIONS & WEIGHT



Model	Base	Dia.	MOL	Weight
6MR16DIM/827FL35/R	GU5.3	1-15/16"	1-15/16"	0.1lb
6MR16DIM/830FL35/R				
6MR16DIM/840FL36/R				



Model	Base	Dia.	MOL	Weight
6PAR16DIM/830FL35/R	E26	1-15/16"	2-13/16"	0.1lb

ORDERING INFORMATION

Model	Master Carton			Shipping Carton		
	Case Qty	Case Dimensions (LxWxH)	Case Weight	Case Qty	Case Dimensions (LxWxH)	Case Weight
6.5MR16DIM/xxxxxxx/35W	12PCS	8-7/8" x 6-11/16" x 2-3/4"	1.59 lb	48PCS	13-3/4" x 9-3/8" x 6-1/2"	6.98 lb
6.5MR16DIM/xxxxxxx	12PCS	8-7/8" x 6-11/16" x 2-3/4"	1.59 lb	48PCS	13-3/4" x 9-3/8" x 6-1/2"	6.98 lb
6GU10DIM/xxxxxxx	12PCS	8-7/8" x 6-11/16" x 2-15/16"	1.4 lb	48PCS	13-3/4" x 9-3/8" x 6-13/16"	6.21 lb
6PAR16DIM/xxxxxxx/RC	12PCS	8-7/8" x 6-11/16" x 3-11/16"	1.6 lb	48PCS	13-3/4" x 9-3/8" x 8-1/4"	7.1 lb
6MR16DIM/xxxxxxx/R	12PCS	8-7/8" x 6-11/16" x 2-3/4"	1.62 lb	48PCS	13-3/4" x 9-3/8" x 6-1/2"	7.12 lb
6PAR16DIM/xxxxxxx/R	12PCS	8-3/8" x 6-11/16" x 3-11/16"	1.9 lb	48PCS	13-7/8" x 9-1/4" x 4-3/4"	8.32 lb

Where xxx means 824-965 which indicates CRI and color temperature
Where yyyy means beam angle

CERTIFICATION INFORMATION

Product	Model	ES ID#	Product	Model	ES ID#
36200	6.5MR16DIM/827NF25/35W	2388773	36209	6.5MR16DIM/940FL35	2387981
36201	6.5MR16DIM/830NF25/35W	2388774	36210	6GU10DIM/827FL40	2388068
36202	6.5MR16DIM/827FL35/35W	2388775	36211	6GU10DIM/830FL40	2388069
36203	6.5MR16DIM/830FL35/35W	2388776	36212	6PAR16DIM/827FL35/RC	2388065
36204	6.5MR16DIM/927NF25	2387976	36213	6PAR16DIM/830FL35/RC	2388067
36205	6.5MR16DIM/930NF25	2387978	57984	6MR16DIM/827FL35/R	2334431
36206	6.5MR16DIM/940NF25	2387980	57985	6MR16DIM/830FL35/R	2334430
36207	6.5MR16DIM/927FL35	2387977	57986	6MR16DIM/840FL35/R	2334429
36208	6.5MR16DIM/930FL35	2387979	57991	6PAR16DIM/830FL35/R	2334661

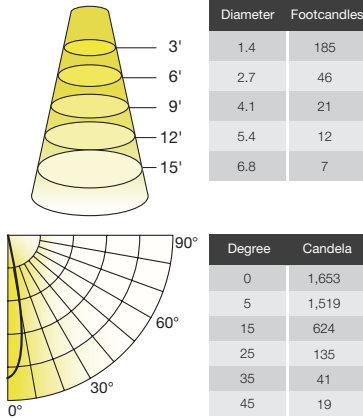
www.greencreative.com - info@greencreative.com - Tel / Fax: (866) 774-5433 -  / GREENCREATIVELED  / GClightingLED  / GREEN-CREATIVE

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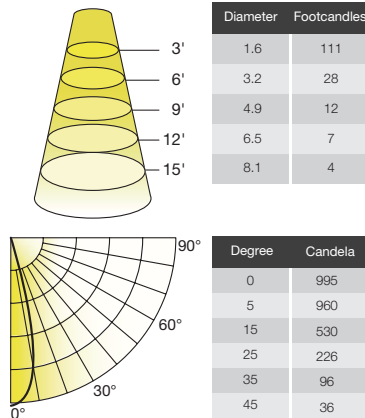
VALUE SELECT MR FAMILY

ILLUMINANCE & CANDELA DISTRIBUTION

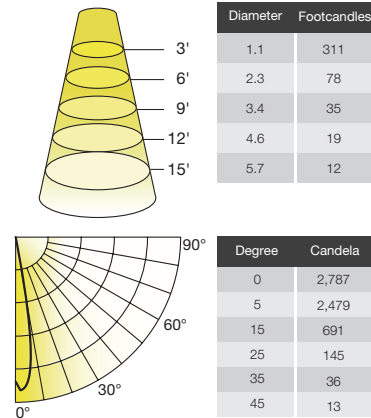
6.5MR16DIM/827NF25/35W



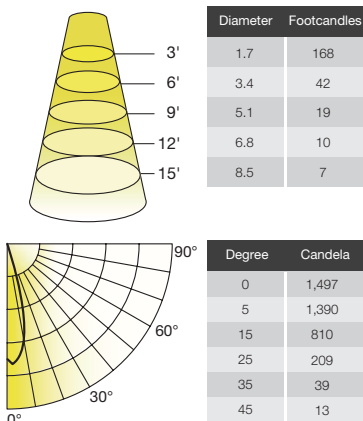
6.5MR16DIM/827FL35/35W



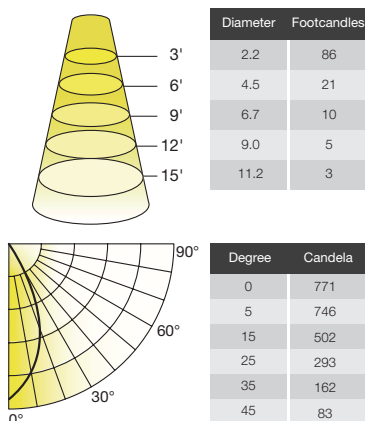
6.5MR16DIM/927NF25



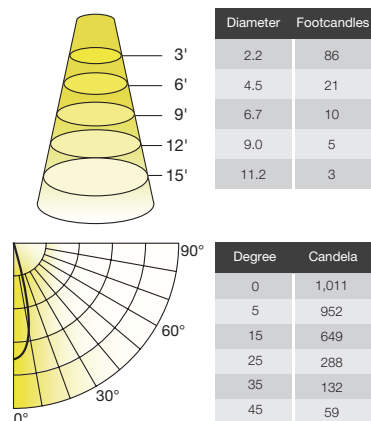
6.5MR16DIM/927FL35



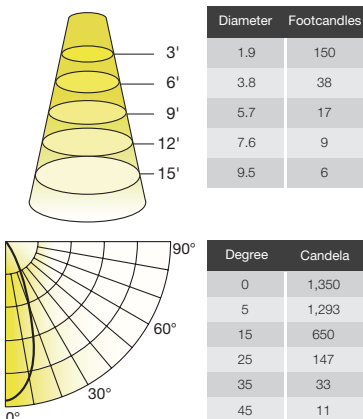
6GU10DIM/827FL40



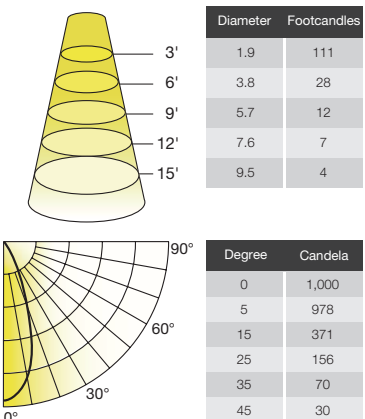
6PAR16DIM/827FL35/RC



6MR16DIM/827FL35/R



6PAR16DIM/827/FL35/R



For other CCT use the following multiplier: 3000K 1.02, 4000K 1.04.

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An ILLUMUS Brand

BOWMAN 4 WALL SCONCE



The classic silhouette of this sleek LED wall sconce makes it suitable for both indoor and outdoor applications. The Bowman's die-cast aluminum body houses a powerful, long-lasting LED light source tightly controlled for down light only, yet supplying significant illumination for even the darkest nights. Available in two sizes and five finishes.

Outstanding protection against the elements:

- Powder coat finishes
- Stainless Steel mounting hardware
- Impact-resistant, UV stabilized frosted acrylic lensing

SPECIFICATIONS

DELIVERED LUMENS	696.6
WATTS	17.8
VOLTAGE	120V, 277V
DIMMING	ELV
LIGHT DISTRIBUTION	Symmetric
MOUNTING OPTIONS	Downlight
CCT	2700K**, 3000K
CRI	90+
COLOR BINNING	3 Step
BUG RATING	B1-U0-G0
DARK SKY	Compliant
WET LISTED	IP65
GENERAL LISTINGS	ETL
CALIFORNIA TITLE 24	Can be used to comply with CEC 2019 Title 24 Part 6 for outdoor use. Registration with CEC Appliance Database not required.
START TEMP	-30°C
FIELD SERVICEABLE LED	No
CONSTRUCTION	Aluminum
HARDWARE	Stainless Steel
FINISH	Powder Coat
LED LIFETIME	L70; >60,000 Hours
WARRANTY*	5 Years
WEIGHT	1.7 lbs.

* Visit techlighting.com for specific warranty limitations and details.
** Available in Black and Bronze finish only.



BOWMAN 4
Shown in Black



BOWMAN 4
Shown in Bronze



BOWMAN 4
Shown in Charcoal



BOWMAN 4
Shown in Silver



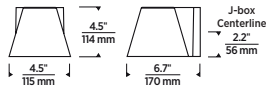
BOWMAN 4
Shown in White

ORDERING INFORMATION

PRODUCT	LENGTH	FINISH	LAMP
700WSBOW	4 4"	B BLACK Z BRONZE H CHARCOAL I SILVER W WHITE	-LED827 LED 90 CRI, 2700K 120V* -LED827-277 LED 90 CRI, 2700K 277V* -LED830 LED 90 CRI, 3000K 120V -LED830-277 LED 90 CRI, 3000K 277V

*AVAILABLE IN BLACK AND BRONZE FINISH ONLY

BOWMAN 4 WALL SCONCE

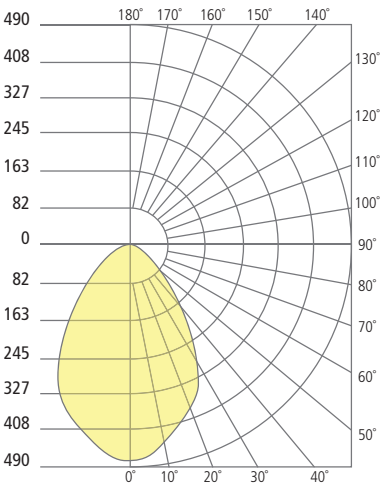


Bowman 4

PHOTOMETRICS*

*For latest photometrics, please visit www.techlighting.com/OUTDOOR

BOWMAN 4
Total Lumen Output: 696.7
Total Power: 17.2
Luminaire Efficacy: 39.1
Color Temp: 3000K
CRI: 90+
BUG Rating: B1-U0-G0



PROJECT INFO

FIXTURE TYPE & QUANTITY	JOB NAME & INFO	NOTES



VISUAL COMFORT & CO.

7400 Linder Avenue, Skokie, Illinois 60077
T 847.410.4400



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techlighting.com

BOWMAN 4 WALL SCONCE



The classic silhouette of this sleek LED wall sconce makes it suitable for both indoor and outdoor applications. The Bowman's die-cast aluminum body houses a powerful, long-lasting LED light source tightly controlled for down light only, yet supplying significant illumination for even the darkest nights. Available in two sizes and five finishes.

Outstanding protection against the elements:

- Powder coat finishes
- Stainless Steel mounting hardware
- Impact-resistant, UV stabilized frosted acrylic lensing

SPECIFICATIONS

DELIVERED LUMENS	696.6
WATTS	17.8
VOLTAGE	120V, 277V
DIMMING	ELV
LIGHT DISTRIBUTION	Symmetric
MOUNTING OPTIONS	Downlight
CCT	2700K**, 3000K
CRI	90+
COLOR BINNING	3 Step
BUG RATING	B1-U0-G0
DARK SKY	Compliant
WET LISTED	IP65
GENERAL LISTINGS	ETL
CALIFORNIA TITLE 24	Can be used to comply with CEC 2019 Title 24 Part 6 for outdoor use. Registration with CEC Appliance Database not required.
START TEMP	-30°C
FIELD SERVICEABLE LED	No
CONSTRUCTION	Aluminum
HARDWARE	Stainless Steel
FINISH	Powder Coat
LED LIFETIME	L70; >60,000 Hours
WARRANTY*	5 Years
WEIGHT	1.7 lbs.

* Visit techlighting.com for specific warranty limitations and details.
** Available in Black and Bronze finish only.



BOWMAN 4
Shown in Black



BOWMAN 4
Shown in Bronze



BOWMAN 4
Shown in Charcoal



BOWMAN 4
Shown in Silver



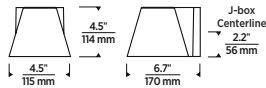
BOWMAN 4
Shown in White

ORDERING INFORMATION

PRODUCT	LENGTH	FINISH	LAMP
700WSBOW	4 4"	B BLACK Z BRONZE H CHARCOAL I SILVER W WHITE	-LED827 LED 90 CRI, 2700K 120V* -LED827-277 LED 90 CRI, 2700K 277V* -LED830 LED 90 CRI, 3000K 120V -LED830-277 LED 90 CRI, 3000K 277V

*AVAILABLE IN BLACK AND BRONZE FINISH ONLY

BOWMAN 4 WALL SCONCE

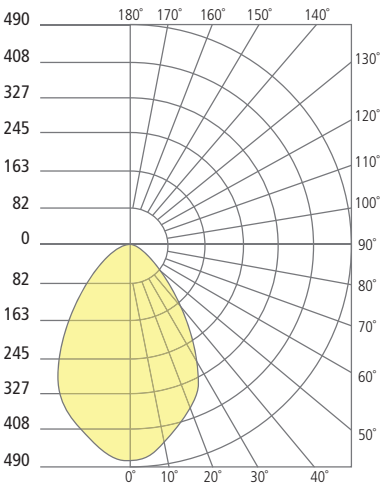


Bowman 4

PHOTOMETRICS*

*For latest photometrics, please visit www.techlighting.com/OUTDOOR

BOWMAN 4
Total Lumen Output: 696.7
Total Power: 17.2
Luminaire Efficacy: 39.1
Color Temp: 3000K
CRI: 90+
BUG Rating: B1-U0-G0



PROJECT INFO

FIXTURE TYPE & QUANTITY	JOB NAME & INFO	NOTES



VISUAL COMFORT & CO.

7400 Linder Avenue, Skokie, Illinois 60077
T 847.410.4400

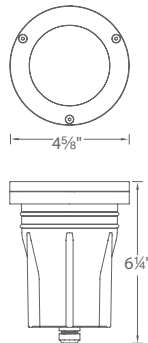


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techlighting.com

3" INGROUND 120V

5032

WAC**LANDSCAPE LIGHTING**Fixture Type: Catalog Number: Project: Location: **PRODUCT DESCRIPTION**

Landscape Wall Wash luminaire

FEATURES

- Adjustable beam angle
- Integral dimmer
- IP67 rated, protected from temporary immersion under water
- Drive over up to 4500lbs
- Solid diecast brass or corrosion resistant aluminum
- Available concrete pour kit
- 6' lead wire and wire nuts included
- Maintains constant lumen output against voltage drop
- UL 1598 listed for indoor and outdoor use
- Not suitable to use with external dimmers

SPECIFICATIONS

Input: 110V - 120VAC
Power: 3W to 11.5W
Brightness: 65 lm to 515 lm
Beam Angle: 15° to 60°
CRI: 85
Rated Life: 45,000 hours

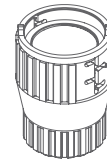
IEC safety Standard	Walk over	Drive over
Resistance to static load test	Yes (1125lbs)	Yes (4496lbs)
Resistance to torque and shear loads test	N/A	Yes

ORDERING NUMBER

	Color Temp	Finish
5032 3" Inground 120V	30 3000K	BZ Bronze on Aluminum BBR Bronze on Brass

Module Replacement

3000K	M5032LE-30BZ
-------	---------------------

**5032-30**Example: **5032-30BBR**

wacighting.com
 Phone (800) 526.2588
 Fax (800) 526.2585

Headquarters/Eastern Distribution Center
 44 Harbor Park Drive
 Port Washington, NY 11050

Central Distribution Center
 1600 Distribution Ct
 Lithia Springs, GA 30122

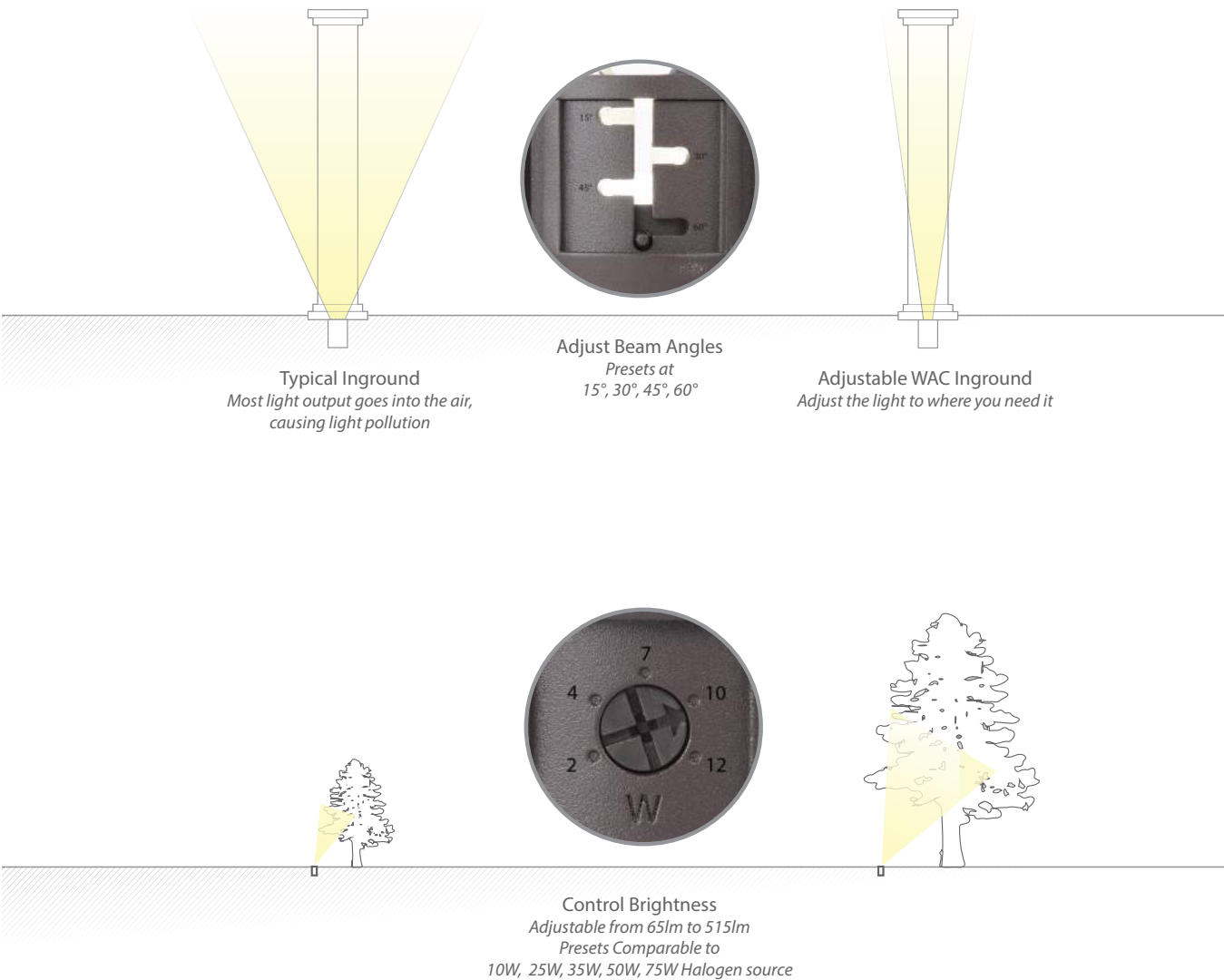
Western Distribution Center
 1750 Archibald Avenue
 Ontario, CA 91760

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3" INGROUND 120V

5032

WAC
LANDSCAPE LIGHTING



wacighting.com
Phone (800) 526.2588
Fax (800) 526.2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center
1600 Distribution Ct
Lithia Springs, GA 30122

Western Distribution Center
1750 Archibald Avenue
Ontario, CA 91760

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program. AUG 2017

3" INGROUND 120V
5032

WAC
LANDSCAPE LIGHTING

Rock Guard

Protects the fixture face



5030-GRD-BZ
Bronze on Aluminum

5030-GRD-BBR
Bronze on Brass

Optics

Enhances saturation of florals and foliage



LENS-25-AMB
Amber

LENS-25-RED
Red

LENS-25-FR
Frosted

LENS-25-GRN
Green

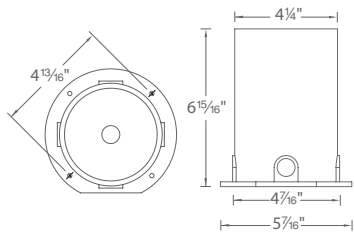
LENS-25-BLU
Blue

LENS-25-HCL
Honeycomb Louver
Reduces glare

Concrete Pour Kit

For installation in concrete
Five 1/2" NPT threaded holes, PC

5030-PIP-PVC
Shown with temporary dense foam cap



wacighting.com
Phone (800) 526.2588
Fax (800) 526.2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center
1600 Distribution Ct
Lithia Springs, GA 30122

Western Distribution Center
1750 Archibald Avenue
Ontario, CA 91760

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UTA-20011

Tango 36 Single Head Post Top

microV^{OS}
TECHNOLOGY

LIGMAN
LIGHTING USA



38w LED
2777 Lumens

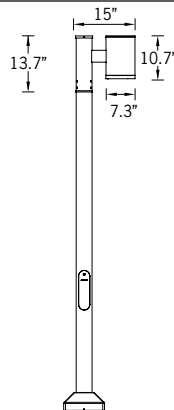
IP65
Suitable for wet locations

IK08
Impact Resistant [Vandal Resistant]

EPA - 0.60

Weight - 42.5 lbs

POLE NOT INCLUDED



Construction

Aluminum

Less than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

BUG Rating

B1 - U0 - G1

Finishing

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Hardware

Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Circular form technical post top range.

Flexible post top lighting solutions for perfect symmetrical or asymmetrical task lighting.

Tango post top luminaire was developed to complement the Tango and Jet range of wall mount luminaires as well as the Jet square bollards, using energy saving LED modules. This cylindrical profiled luminaire mounted on a round aluminum pole, is available narrow, medium and wide beams and complies with IDA Dark Sky requirements. Designed for residential and shopping areas, squares and parks.

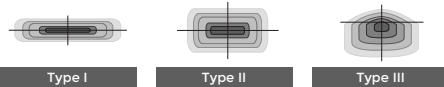
Color temperature 2700K, 3000K, 3500K and 4000K, LED CRI >80 and life time 50,000 Hours. High pressure die-cast marine grade LM6 aluminum body that is pre-treated with a nickel and zinc phosphate and then powder coated with a 4.9mil thick paint finish ensuring high corrosion resistance.

Marine grade 316 stainless steel fasteners. Durable memory retentive silicone rubber gasket and clear tempered glass lens. This luminaire is provided prewired with power cord to the handhole to simplify installation.

To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected.

microV^{OS}
TECHNOLOGY

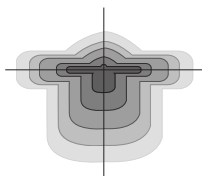
Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



Type IV

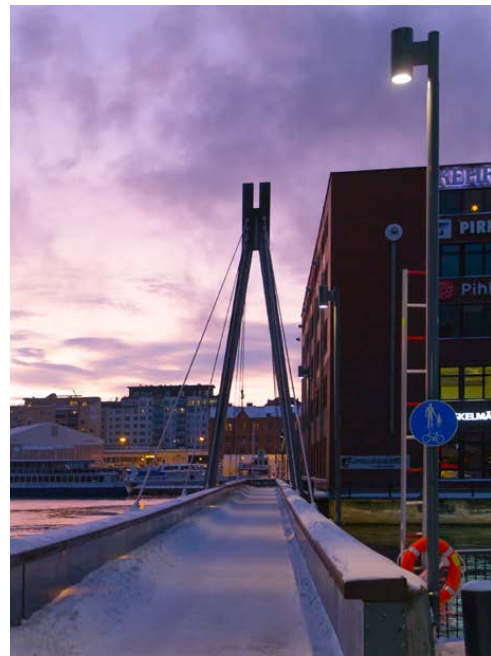
Type V

The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.



HYBRID
TYPE I & TYPE IV

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.



UTA-20011

Tango 36 Single Head Post Top

microV^{OS}
TECHNOLOGY**LIGMAN**
LIGHTING USA

PROJECT					DATE	
QUANTITY		TYPE		NOTE		

ORDERING EXAMPLE || UTA - 20011 - 38w - T2 - W30 - 02 - 120/277v - Options

UTA-20011					
	LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
	38w LED 2777 Lumens	T1 - Type I Distribution T2 - Type II Distribution T3 - Type III Distribution T4 - Type IV Distribution	W27 - 2700K W30 - 3000K W35 - 3500K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL	120/277v Other - Specify

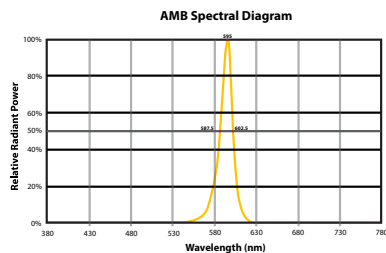
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ADDITIONAL OPTIONS

DIM - 0-10v Dimming

NAT - Natatorium Rated

AMB - Turtle Friendly Amber LED

CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT**Narrow-Spectrum Amber LEDs**

Peak wavelength between 585 & 595 nanometers and a full width of 50% power no greater than 15 nanometers.

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

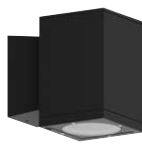


Tango Product Family



Tango 29

- UTA-31861-37w-2777lm - Down
- UTA-31861-29w-2566lm [ASYM] - Down
- UTA-31863-42w-3418lm [ASYM] - Down



Tango 30

- UTA-31871-37w-2777lm - Down
- UTA-31871-29w-2566lm [ASYM] - Down
- UTA-31873-42w-3418lm [ASYM] - Down



Tango 31

- UTA-31881-2x37w-2x2777lm - Up/Down
- UTA-31882-2x29w-2x3521lm [ASYM] - Up/Down
- UTA-31883-2x42w-2x3418lm [ASYM] - Up/Down



Tango 32

- UTA-31891-2x37w-2x3521lm - Up/Down
- UTA-31892-2x39w-2x2566lm [ASYM] - Up/Down
- UTA-31893-2x29w-2x2777lm [ASYM] - Up/Down



Tango 33

- UTA-80551-37w-2777lm
- UTA-80552-29w-2566lm [ASYM]
- UTA-80553-42w-3418lm [ASYM]



Tango 34

- UTA-80561-37w-2777lm
- UTA-80562-29w-2566lm [ASYM]
- UTA-80563-42w-3418lm [ASYM]



Tango 35

- UTA-20731-37w-2777lm
- UTA-20732-2x37w-2x2777lm



Tango 36

- UTA-20001-38w-4265lm
- UTA-20011-37w-2777lm



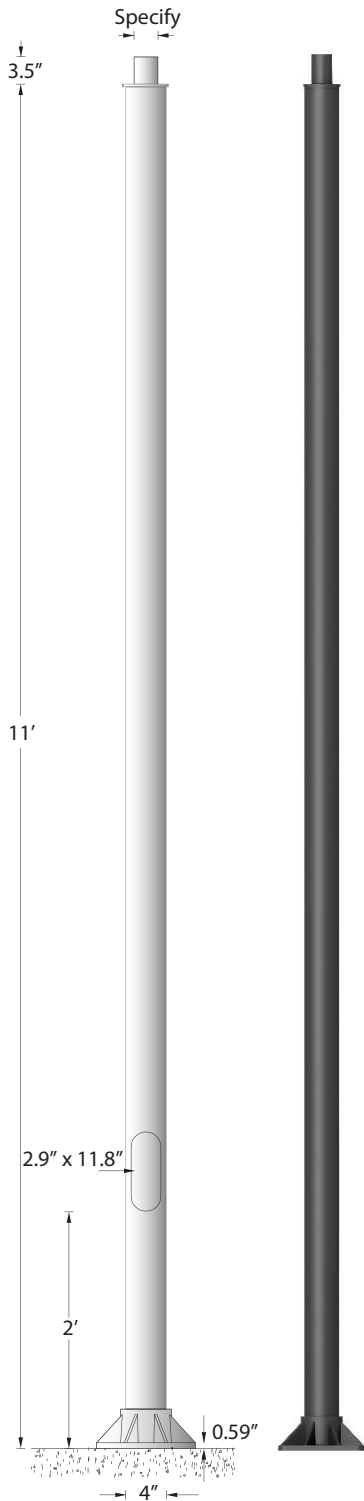
Tango 37

- UTA-20021-2x38w-2x4265lm
- UTA-20022-2x37w-2x2777lm

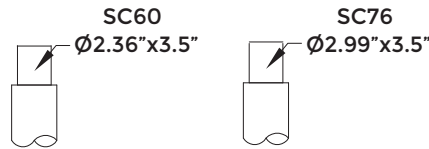
APD-RSA-4018-11'-4.0" DIA .188" Round Straight Aluminum Pole

LIGMAN
LIGHTING USA

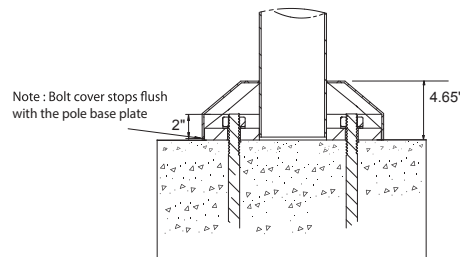
LIGHTING DESIGN ALLIANCE



Tenon Post Top



Pole Mount Install Notes



A level concrete base is poured and finished flush. This provides a uniform load displacement pad for the forces created by wind and luminaire weight

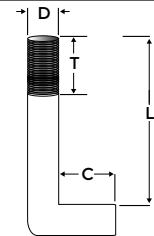
Failing to do this voids pole warranty
Foundation and Design by Others

Physical Data

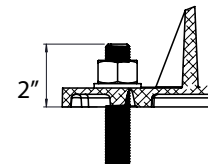
Pole Height: 11'
Pole Diameter: 4"
Thickness: 0.188"
Weight: 29.3 lbs

Anchor Bolt

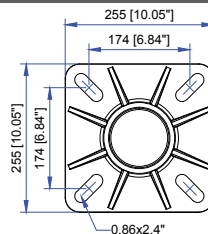
D x L x C x T
3/4 x 18 x 4 x 6



Bolt Projection



Mounting Base



Not to scale template:

This drawing is being furnished for reference dimensions only and cannot be used as a template to set anchor bolts. Since it is "not to scale" Ligman accepts no responsibility for its intended use. Refer to site plans and specification before installing any anchor bolts.

• Contact Ligman Lighting USA for bolt template prior to pouring anchor bolts.

Wind Load Map



Die-Cast Base Cover



Maximum EPA

MPH	90	100	110	120	130
EPA	7.8	6.0	5.5	4.3	3.4

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

APD-RSA-4018-11'-4.0" DIA .188"

Round Straight Aluminum Pole



PROJECT				DATE	
QUANTITY		TYPE		NOTE	

ORDERING EXAMPLE || APD-RSA-4018-11'-4.0" DIA .188"-SC60-02-Options

TENON	FINISH COLOR	ADDITIONAL OPTIONS - CONSULT FACTORY FOR PRICING			
SC60 - 2.36" x 3.5" Tenon SC76 - 2.99" x 3.5" Tenon	01 - BLACK RAL 9001 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - BRONZE RAL 6014 07 - CUSTOM RAL	<div><div>A20181 - Single Banner Arm</div><div>A20281 - Double Banner Arm</div><div>GFCI - GFCI Box</div><div>1LS - 1.5mm [1/16"] Leveling Shim [Enter Quantity]</div><div>3LS - 3mm [1/8"] Leveling Shim [Enter Quantity]</div></div> <div><div></div><div></div><div></div><div></div></div> <div><div>LS Leveling Shim</div><div>A20181 Single Banner Arm</div><div>A20281 Double Banner Arm</div><div>GFCI GFCI Box</div></div> <div><div>Banner arms are designed with a safety break-away at the clamp with an internal safety wire that prevents the arm from falling to the ground.</div><div>It is important to calculate the additional EPA loading on the pole based on the size and quantity of banners.</div><div>Adding banners will affect the EPA of the pole and should be taken into consideration before installing.</div><div>Incorrect pole loading of any type voids pole warranty.</div></div>			
<div><div>INSPIRED BY NATURE FINISHES</div><div>SW01 - OAK FINISH</div><div>SW02 - WALNUT FINISH</div><div>SW03 - PINE FINISH</div><div>DF - DOUGLAS FIR FINISH</div><div>CW - CHERRY WOOD FINISH</div><div>NW - NATIONAL WALNUT FINISH</div><div>SU01 - CONCRETE FINISH</div><div>SU02 - SOFTSCAPE FINISH</div><div>SU03 - STONE FINISH</div><div>SU04 - CORTEN FINISH</div></div> <div><div>THERE IS AN ADDITIONAL COST FOR THESE FINISHES</div></div>					

Inspired by Nature Finishes
The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process
After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

Added Benefits

- Resistance to salt-acid room, accelerated aging
- Boiling water, lime and condensed water resistant
- Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
- Super durable (UV resistant)
- TGIC free (non-toxic)

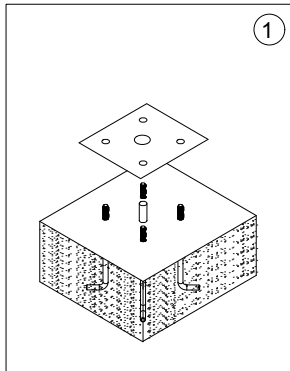
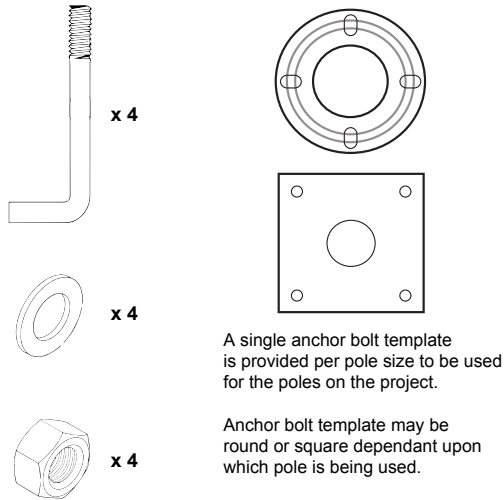
More Custom Finishes Available Upon Request

Consult factory for pricing and lead times

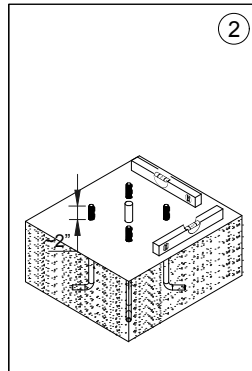


Anchor Bolt Installation for Poles

What's Included Per Pole



Use anchor bolt template to set anchor bolts into concrete as per civil engineering instructions.



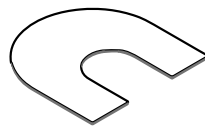
Ensure that the concrete is plumb using a level. Failing to do this will result in pole being uneven or tilted.

Ligman does not provide foundation details. A local engineer that is familiar with the site soil conditions should provide this information.

NOTE:

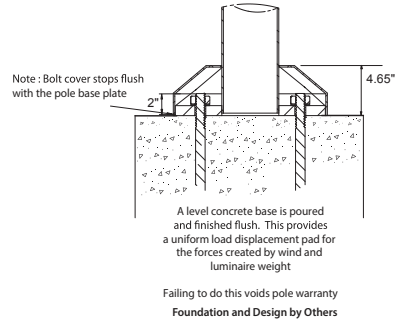
Ligman does not recommend using leveling bolts for pole installations.

Leveling shims can be provided, contact Ligman for more information.



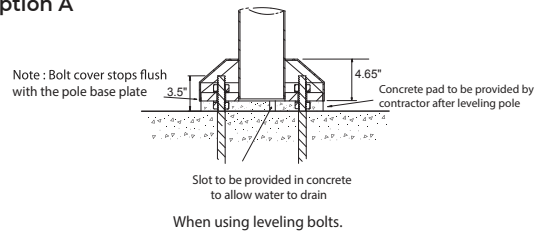
Leveling Shim Example

Preferred Pole Installation

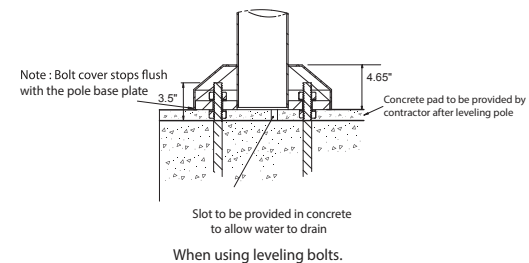


In rare instances where leveling bolts have to be used, it is important that a flush concrete surface is created to mount the pole base plate.
NOTE: When using leveling bolts, bolt projection should be 3.5"

Using Leveling Bolts Option A



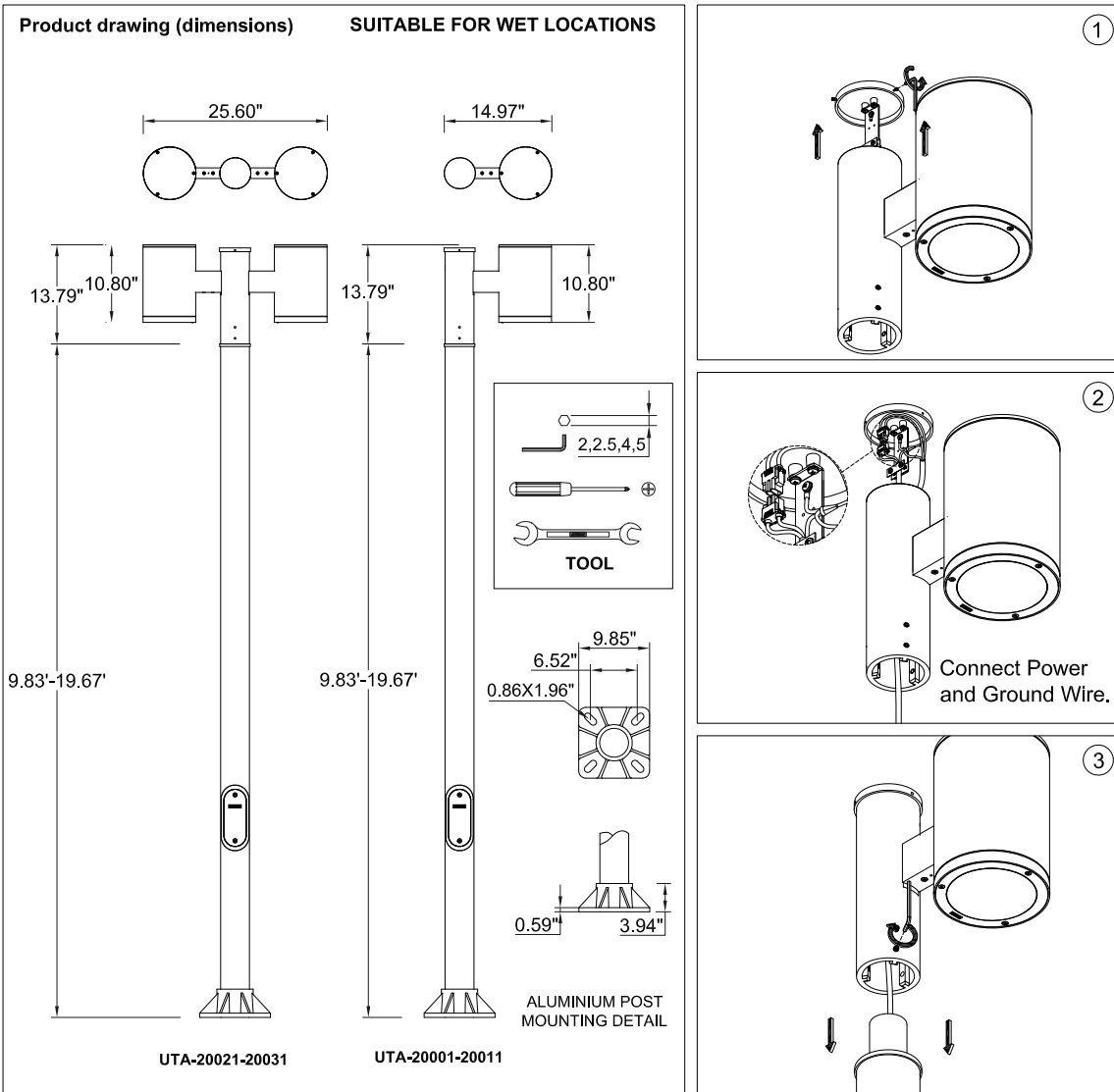
Using Leveling Bolts Option B



INSTALLATION AND SERVICE MANUAL



For installation of TANGO 36,37 POST TOP .
Model. UTA-20001,UTA-20011,UTA-20021 AND UTA-20031



Notice to installer :

- 1.WIRING INSTRUCTIONS** Warning : RISK OF FIRE AND ELECTRICAL SHOCK. : FIXTURE MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN ONLY>FIXTURE IS INTENDED FOR INSTALLATION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LOCAL AND FEDERAL CODE SPECIFICATIONS. DISCONNECT POWER BEFORE SERVICING.
- 2.This fixture has a VOLTAGE SPECIFIC BALLAST,Check that the supply voltage is the same as the installed ballast voltage.**

Ligman Lighting USA

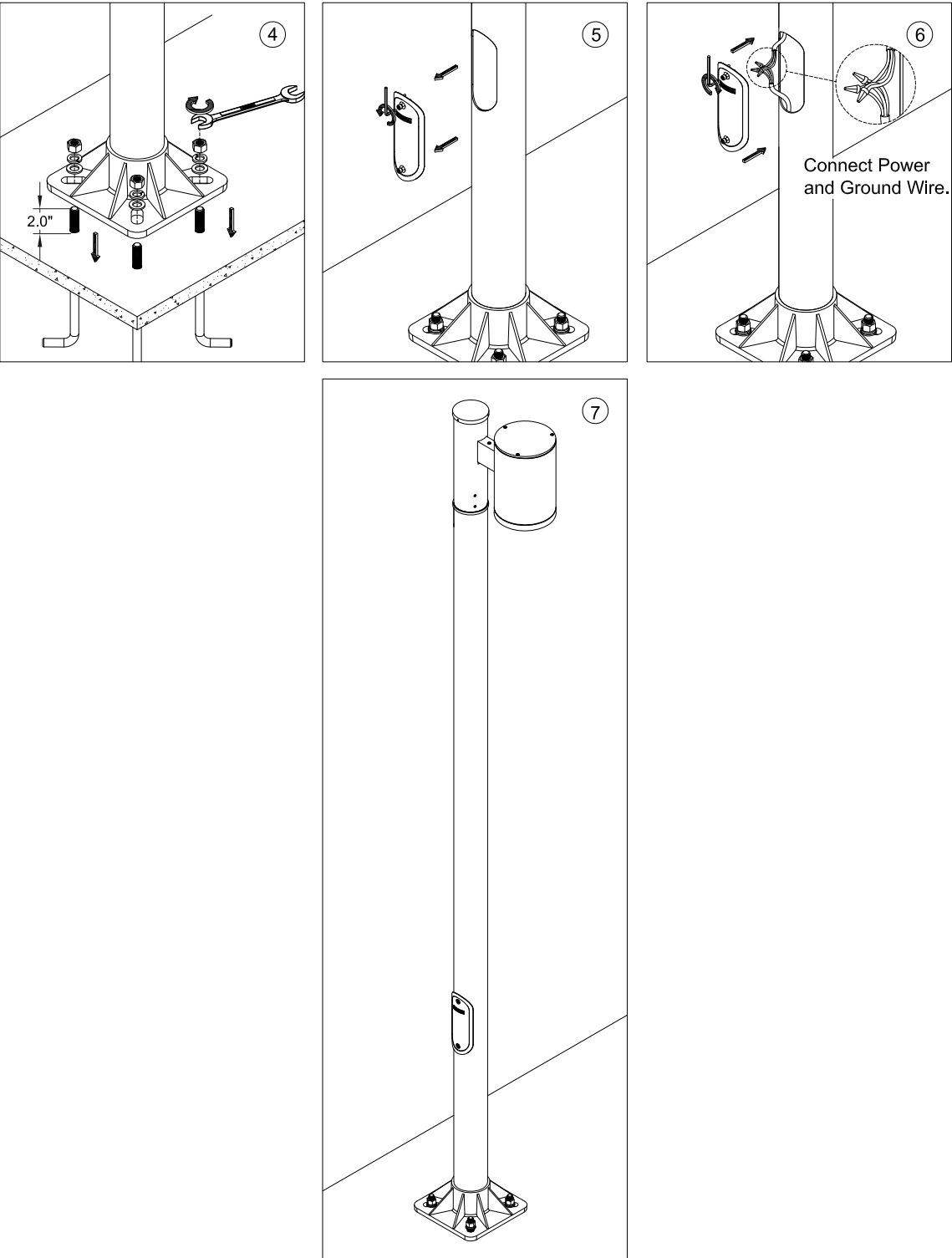
7144 NW Progress Court, Hillsboro
Oregon, 97124, USA
Tel : 503 645 0500 | Fax : 503 645 8100

www.ligmanlightingusa.com



UTA-20001 16/09/17/REV.0 KIE
1/2

FM-TS-13/25-05-2007-REV.2



UTA-20001 16/09/17/REV.0 KIE
2/2



initia™ INIT3 | 3" APERTURE

Downlight | Wall Wash | 400 – 1500 Lumens



TRIM STYLES



Deep Reflector



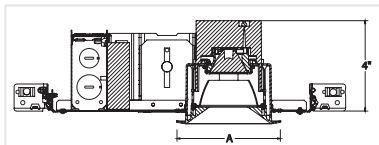
Bevel



Pinhole



Lensed Wall Wash



A Dimension:
Self Flanged: 4.625"
Flangeless: 3.875"

FEATURES

AFFORDABLE & ELEGANT PRECISION RECESSED

- Complete family of recessed downlight, adjustable, and wall wash luminaires
- Available with reflector, bevel and pinhole trims
- Coordinated apertures with Aculux AX3 family

QUIET AND GLARE FREE APERTURES

- Deep source regression with 45-degree visual cutoff
- Total Internal Reflection (TIR) Optics in four (4) beam spreads

EXCELLENT PERFORMANCE

- Up to 1500 lumens delivered!
- Exceptionally consistent color with < 2SDCM
- Excellent color rendition with 80+ CRI | 90+ CRI Available
- WarmDim® option mimics halogen dimming (3000K - 1800K)

PERFORMANCE

Static White*

LUMEN PACKAGE	WATTS IN	DELIVERED LUMENS	EFFICACY (LPW)
04LM	5	492	98
08LM	8	854	107
12LM	12	1294	108
15LM	16	1605	100

WarmDim®

LUMEN PACKAGE	WATTS IN	DELIVERED LUMENS	EFFICACY (LPW)
08LM	12	828	68
10LM	16	1070	67

*Performance with NT3DP at 3000K | 80CRI
Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.



FLANGE STYLES



Flanged



Flangeless (Gypsum)



initia™ INIT3 | 3" APERTURE




Downlight | Wall Wash | 400 – 1500 Lumens




ORDERING INFORMATION

EXAMPLE: INIT3 D 15LM 30K 90CRI 25D EZ1 MVOLT NT3DP CD SF

Housing Style	Lumens	CCT	CRI	Beam	Driver	Voltage ⁴	Ratings	Options
INIT3 D New Construction Downlight & Wall Wash	Static White 04LM ¹ 400 lumens 08LM 800 lumens 12LM 1200 lumens 15LM 1500 lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K	80CRI 90CRI ²	18D 18° beam 25D 25° beam 35D 35° beam 50D 50° beam	FPC Phase cut dim (1% min) EZ1 eldoLED 0-10V (linear 1% min) GZ1 0-10V (Linear 1% min) ECOS2 ³ Lutron 2-wire (1% min) ECOD ³ Lutron EcoSystem (1% min)	120 277 MVOLT (120-277)	(blank) Non-IC Rated CP ⁵ Chicago Plenum ICAT ⁵ IC Rated, Air-tight	NLIGHT ⁶ nLight Dimming E5WT20R ⁷ Emergency 5W battery pack with remote test switch, T20 compliant E5WR ⁷ Emergency 5W battery pack with remote test switch
INIT3 DR Remodel Downlight & Wall Wash	WarmDim® 08LM 800 Lumens 10LM ⁹ 1000 lumens	WDIM HALR 3000K - 1800K	90CRI	25D 25° beam 35D 35° beam 50D 50° beam				

Downlight Trim	Reflector Finish	Flange Style	Trim Lens Environment	Ceiling Installation
Reflector NT3DP 	W White Paint CD Clear Diffuse CS Clear Specular BS Black Specular WTD Wheat Diffuse	Flanged SF Self Flanged (same finish as reflector) WHSF Self Flanged, White Painted Flange (not available with W finish) Flangeless ⁸ FM Flangeless	(blank) Open Damp Location WSOL Solite Wet Location	Flanged (blank) Ceiling 0.5" - 1.5" Flangeless (Gypsum) NT3FMA Ceiling 0.5" - 1.5"
Bevel NT3DBV BD 	Finish & Flange Style Flanged WHSF White, Flanged BLSF Black, Flanged Flangeless ⁸ WHFM White, Flangeless BLFM Black, Flangeless		(blank) Open Damp Location WSOL Solite Wet Location	Flanged (blank) Ceiling 0.5" - 1.5" Flangeless (Gypsum) NT3FMA Ceiling 0.5" - 1.5"
Pinhole NT3DPIN BD 	1 3/4" Pinhole Downlight			

Wall Wash Trim	Reflector Finish	Flange Style	Environment	Ceiling Installation
Lensed Wall Wall NT3WW 	W White Paint CD Clear Diffuse CS Clear Specular BS Black Specular WTD Wheat Diffuse	Flanged SF Self Flanged (same finish as reflector) WHSF Self Flanged, White Painted Flange (not available with W finish) Flangeless ⁸ FM Flangeless	(blank) Damp Location	Flanged (blank) Ceiling 0.5" - 1.5" Flangeless (Gypsum) NT3FMA Ceiling 0.5" - 1.5"

REFLECTOR & WALL WASH FINISHES

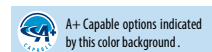


BEVEL & PINHOLE FINISHES



ORDERING NOTES

- 04LM available with FPC driver only.
- 90CRI not available on 40K CCT.
- ECOS2 & ECOD not available with ICAT at 15LM. ECOS2 not available with WDIM with ICAT.
- MVOLT standard on EZ1, GZ1, ECOD unless NLIGHT specified. Must be 120 for ECOS2, FPC.
- CP & ICAT available on new construction only.
- NLIGHT available on Non-IC with EZ1 only. Must specify 120 or 277 volts.
- E5WT20R & E5WR not available with remodel, ICAT, or CP.
- For flangeless trims, must specify flangeless installation (NT3FMA).
- 10LM WDIM not available with ICAT or CP.





initia™ INIT3 | 3" APERTURE
Downlight | Wall Wash | 400 – 1500 Lumens



ACCESSORIES

Beam Control Lenses & Filters		Replacement Optics	Optional Installation Accessories
Beam Control Lens		Static White Optics	Bar Hangers
DIFF 200	Diffuse Spread Lens	NT3OPT/18D	18° beam
SOLITE 200	Solite Uniformity Lens	NT3OPT/25D	25° beam
PRISM 200	Prismatic Lens	NT3OPT/35D	35° beam
LSPREAD 200	Linear Spread Lens	NT3OPT/50D	50° beam
HCLBL 200	Hexcell Louver		
UV Filter & Color Correction		WarmDim® Optics	
UVF 200	UV Filter Lens	NT3WDOPT/25D	25° beam
DCCF 200 HAL4250	Daylight Blue Correction	NT3WDOPT/35D	35° beam
		NT3WDOPT/50D	50° beam

PRODUCT SPECIFICATIONS

FIELD INTERCHANGEABLE LED LIGHT ENGINE

- <2SDCM Binning
- 2700K | 3000K | 3500K | 4000K CCT
- 80+ CRI available for all CCTs
- 90+ CRI available for 2700K, 3000K, 3500K
- WarmDim mimics halogen, with CCT shifting from 3000K to 1800K when dimmed.
- Future proof and easy to maintain - serviceable from below the ceiling

OPTICAL SYSTEM

- 45° visual cutoff to source and source image
- Field interchangeable TIR optics from 18° FWHM to 50° FWHM provide smooth, striation-free beams
- Accommodates 1 beam control lens or filter

HIGH QUALITY TRIMS

- Available with die cast bevels, pinholes, and angle cut reflectors
- Flanged and flangeless for gypsum
- Must specify NT3FMA for gypsum flangeless installation

FIELD REPLACEABLE DRIVER

- Accommodates 120-277V input and multiple control protocols
- Dims without perceived flicker to <1% depending on driver specified
- Field replaceable from below the ceiling
- >0.9 Power Factor

BUY AMERICAN

- This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT.
- Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY & RATED LIFE

- LED is rated for >50,000 hours at 70% lumen maintenance
- 5- year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

EMERGENCY BATTERY

- Provides a minimum of 400 lumens (3000K, 80CRI) for minimum duration of 90 minutes.
- Above ceiling access required.
- Supplied with remote test switch
- E5WT20R option is CEC T20 Compliant

CEILING THICKNESS

- Accommodates ½" to 1 1/2" ceiling thickness

INSTALLATION

- New construction or remodel (install from below) are available.
- Residential style bar hanger provided with all new construction housings except when specified with emergency battery.
- Vertically adjustable mounting brackets (butterfly brackets) are provided on non-ICAT new construction housings.

JUNCTION BOX

- New construction housings are rated for (4) No. 12 AWG 90°C through branch circuit conductors (excludes ECOS2 & ECOD drivers)
- New Construction housings include (6) ½", (1) ¾", (4) Non-metallic sheathed cable knock-outs.
- Remodel housings feature (8) ½" knockouts suitable for daisy chain wiring.
- Push-in electrical connectors for field connections.

CODES & LABELS

- UL & cUL listed for through branch wiring (excludes ECOS2 & ECOD), damp location. Listed for wet location with WSOL option.
- ICAT meets energy code air leakage requirements per ASTM E283
- ENERGY STAR® certified with NT3DP and NT3DBV (excluding 50D beam) trims for static white @ 80CRI and NT3DP trims (excluding: BS finish, ECOD & ECOS2 drivers) for warmdim.
- Title 24, Part 6: JA-8 Compliant with 90CRI and ICAT. Refer to CEC T24 website for compatible trims.
- ICAT housings are rated for direct contact with insulation
- Low Density open-cell Spray Foam Insulation Compatible: 04LM|08LM|12LM (ICAT option) are compatible with foam insulation with an R-Value of 4.3 per inch or less (excludes ECOS2, ECOD, & WDIM)
- Medium Density closed-cell Spray Foam Insulation Compatible: 04LM|08LM (ICAT option) are compatible with foam insulation with an R-Value of 6.8 per inch or less (excludes ECOS2, ECOD, & WDIM)
- Union made

A+ CAPABLE LUMINAIRE

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background on ordering information*

To learn more about A+, visit www.acuitybrands.com/aplus.



initia™ INIT3 | 3" APERTURE

Downlight | Wall Wash | 400 – 1500 Lumens



DIMENSIONS

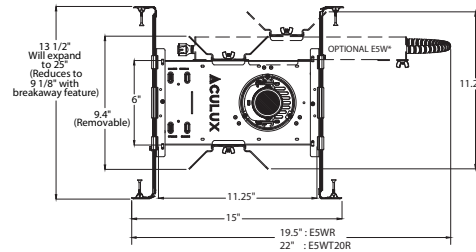
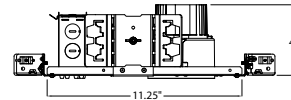
NEW CONSTRUCTION

Ceiling Cutout: 4" Dia. (Refer to installation instructions for flangeless ceiling cutout)

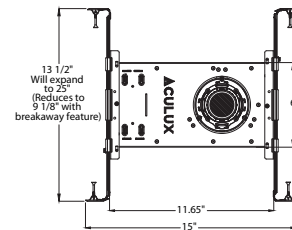
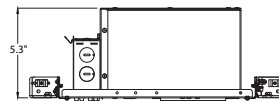
Ceiling Thickness Range: 1/2" – 1 1/2" (see ordering matrix)



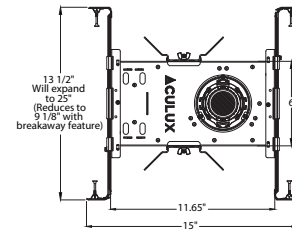
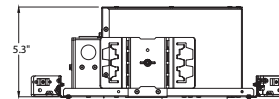
Non-ICAT



ICAT



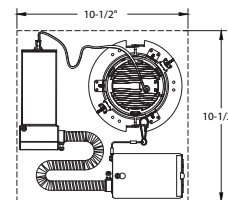
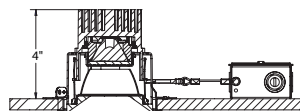
CP




REMODEL (install from below)

Ceiling Cutout: 4.25" Dia. (Refer to installation instructions for flangeless ceiling cutout)

Ceiling Thickness Range: 1/2" – 1 1/2" (see ordering matrix)



ELECTRICAL SPECIFICATIONS

LUMEN PACKAGE	Static White				WarmDim® 			
	04LM		08LM		12LM		15LM	
Voltage	120	277	120	277	120	277	120	277
Input Watts	4.6	4.8	7.7	7.8	11.9	12.3	16.1	16.4
Input Current	0.04	0.02	0.06	0.03	0.1	0.05	0.13	0.06
Frequency	50/60HZ		50/60HZ		50/60HZ		50/60HZ	
Power Factor	.9 MIN.		.9 MIN.		.9 MIN.		.9 MIN.	

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INIT3 DL WW | Rev. 06/20/22
Page 4 of 7



initia™ INIT3 | 3" APERTURE

Downlight | Wall Wash | 400 – 1500 Lumens



PHOTOMETRICS

Tested in accordance to IESNA LM79

18 Degree Beam

INIT3 D 12LM 30K 80CRI 18D EZ1 MVOLT NT3DP CD, input watts: 11.9, delivered lumens: 1234, LPW: 103.7, S/MH: 0.30, test no.: 19-951-01

	CP Summary	Zonal Lumen Summary		Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
				pf	80%										Mounting Height	Initial FC Center Beam	Beam Diameter	
					pc	50%	30%	10%	50%	30%	10%	50%	30%	10%				
0°	7,658	0° - 30°	1,185	96%	0	119	119	119	116	116	116	111	111	111	6.0	212.7	1.9	45° 2,028
30°	5,160	0° - 40°	1,220	99%	1	113	111	109	111	109	107	108	106	104	8.0	119.7	2.5	55° 1,648
60°	1,563	0° - 60°	1,233	100%	2	108	105	102	106	104	101	103	101	99	10.0	76.6	3.1	65° 231
90°	493	0° - 90°	1,234	100%	3	103	100	97	102	99	96	100	97	95	12.0	53.2	3.8	75° 126
105°	35				4	99	96	93	98	95	92	96	93	91	14.0	39.1	4.4	85° 0
120°	9				5	96	92	89	95	91	89	93	90	88				
135°	6				6	93	89	86	92	88	85	91	87	85				
150°	1				7	90	86	83	89	85	83	88	85	82				
165°	0				8	87	83	80	87	83	80	86	82	80				
180°	0				9	85	81	78	84	81	78	84	80	78				
195°	0				10	82	79	76	82	78	76	81	78	76				

25 Degree Beam

INIT3 D 12LM 30K 80CRI 25D EZ1 MVOLT NT3DP CD, input watts: 11.9, delivered lumens: 1238, LPW: 104.0, S/MH: 0.51, test no.: 19-951-08

	CP Summary	Zonal Lumen Summary		Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
				pf	80%										Mounting Height	Initial FC Center Beam	Beam Diameter	
					pc	50%	30%	10%	50%	30%	10%	50%	30%	10%				
0°	4,273	0° - 30°	1,179	95%	0	119	119	119	116	116	111	111	111	6.0	118.7	3.3	45° 1,936	
30°	4,037	0° - 40°	1,224	99%	1	113	111	109	111	109	107	105	104	8.0	66.8	4.4	55° 1,563	
60°	2,191	0° - 60°	1,237	100%	2	107	104	102	106	103	100	102	100	98	10.0	42.7	5.4	65° 231
70°	478	0° - 90°	1,238	100%	3	102	99	96	101	98	95	99	96	94	12.0	29.7	6.5	75° 126
50°	73				4	98	94	91	97	93	90	95	92	89	14.0	21.8	7.6	85° 187
40°	9				5	94	90	87	93	90	87	92	88					
30°	55°				6	91	87	83	90	86	83	89	85	83				
20°	65°				7	88	83	80	87	83	80	86	82	80				
10°	75°				8	85	80	77	84	80	77	83	80	77				
0°	85°				9	82	78	75	82	78	75	81	77	75				
0°	90°				10	79	75	73	79	75	72	78	75	72				

35 Degree Beam

INIT3 D 12LM 30K 80CRI 35D EZ1 MVOLT NT3DP CD, input watts: 12.0, delivered lumens: 1294, LPW: 107.8, S/MH: 0.60, test no.: 19-951-15

	CP Summary	Zonal Lumen Summary		Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
				pf	80%										Mounting Height	Initial FC Center Beam	Beam Diameter		Average Luminance
					pc	50%	30%	10%	50%	30%	10%	50%	30%	10%					
0°	3,104	0° - 30°	1,182	91%	0	119	119	119	116	116	111	111	111	6.0	86.2	4.0	45° 1,613		
5°	2,962	0° - 40°	1,279	99%	1	112	110	108	110	108	106	105	103	8.0	48.5	5.4	55° 1,080		
15°	2,022	0° - 60°	1,293	100%	2	106	103	100	104	101	99	101	97	10.0	31.0	6.7	65° 231		
25°	803	0° - 90°	1,294	100%	3	101	97	93	99	96	93	97	94	91	12.0	21.6	8.0	75° 126	
35°	144				4	96	91	88	95	90	87	93	89	86	14.0	15.8	9.4	85° 187	
45°	7				5	91	87	83	90	86	83	89	85	82					
55°	4				6	87	82	79	87	82	79	85	81	78					
65°	1				7	84	79	75	83	78	75	82	78	75					
75°	0				8	80	75	72	80	75	72	79	74	72					
85°	0				9	77	72	69	77	72	69	76	72	69					
90°	0				10	74	69	66	74	69	66	73	69	66					

50 Degree Beam

INIT3 D 12LM 30K 80CRI 50D EZ1 MVOLT NT3DP CD, input watts: 11.9, delivered lumens: 1072, LPW: 90.1, S/MH: 0.65, test no.: 19-951-22

	CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
						pf	80%										Mounting Height	Initial FC Center Beam		Beam Diameter	
							pc	50%	30%	10%	50%	30%	10%	50%	30%	10%					
		Zone	Lumens	% Fixture		0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°				Average Luminance	
0°	1,952	0° - 30°	867	81%	0	119	119	119	116	116	116	111	111	111	111	111	6.0	54.2	4.6	45° 3,157	
5°	1,849	0° - 40°	1,038	97%	1	111	109	107	109	107	105	105	104	102	102	102	8.0	30.5	6.1	55° 2,188	
15°	1,336	0° - 60°	1,070	100%	2	105	101	98	103	100	97	100	97	95	95	95	10.0	19.5	7.6	65° 578	
25°	720	0° - 90°	1,072	100%	3	98	94	90	97	93	90	94	91	88	88	88	12.0	13.6	9.1	75° 315	
35°	263				4	93	88	84	92	87	83	90	86	83	83	83	14.0	10.0	10.6	85° 187	
45°	14				5	88	82	79	87	82	78	85	81	78	78	78					
55°	8				6	83	78	74	82	77	74	81	76	73	73	73					
65°	2				7	79	73	70	78	73	69	77	72	69	69	69					
75°	1				8	75	70	66	74	69	66	73	69	65	65	65					
85°	0				9	71	66	62	71	66	62	70	65	62	62	62					
90°	0				10	68	63	59	68	63	59	67	62	59	59	59					

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	04LM	08LM	10LM	12LM	15LM
2700K	0.96	0.83	0.38	0.66	0.85	1.00	1.24
3000K	1.00	0.86	*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)				
3500K	1.03	0.89					
4000K	1.05	-					
WDIM HALR	-	0.97					



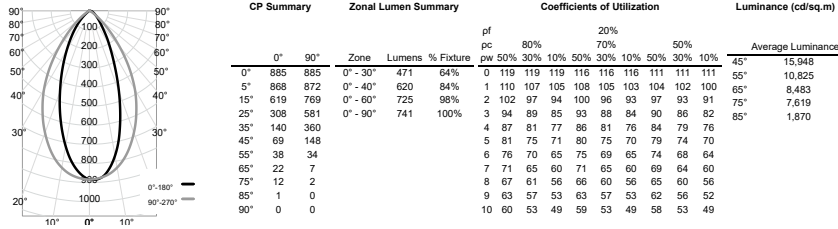
initia™ INIT3 | 3" APERTURE
Downlight | Wall Wash | 400 – 1500 Lumens



PHOTOMETRICS

Tested in accordance to IESNA LM79

INIT3 D 12LM 30K 80CRI 25D EZ1 MVOLT NT3WW CD, input watts: 12.7, delivered lumens: 714, LPW: 58.3, S/MH: 0.65, test no.: 20-081-01



FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixture Distance to Wall		24"								
Fixture Centers (spacing)		24"			30"			36"		
DISTANCE FROM CEILING	1'	5	4	5	4	3	4	4	3	4
	2'	9	9	9	8	7	8	7	6	7
	3'	12	12	12	10	9	10	8	8	8
	4'	13	14	13	11	11	11	9	9	9
	5'	13	13	13	11	11	11	9	9	9
	6'	11	12	11	10	10	10	8	8	8
	7'	9	10	9	8	8	8	7	7	7
	8'	8	8	8	7	7	7	6	6	6
	9'	6	6	6	5	6	5	5	5	5
	10'	5	5	5	5	5	5	4	4	4

Performance listed at 3000K | 80CRI

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI
2700K	0.96	0.83
3000K	1.00	0.86
3500K	1.03	0.89
4000K	1.05	-
WDIM HALR	-	0.97

04LM	08LM	10LM	12LM	15LM
0.38	0.66	0.85	1.00	1.24

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)



initia™ INIT3 | 3" APERTURE

Downlight | Wall Wash | 400 – 1500 Lumens



DIMMER COMPATIBILITY

Phase Dimming (FPC Driver)

Incandescent, Magnetic Low Voltage and Electronic Low Voltage Dimming

- Dimming range of 100% down to as low as 1% a minimum load of one fixture
- Dimming range and maximum rated load vary depending on dimmer type and model. See maximum load calculations below to identify max number of luminaires per dimmer.

Incandescent (INC) and Magnetic Low Voltage (MLV)

Example: Fixture Rating = 13W
 Dimmer Rating = 600W
 Equivalent Incandescent Load (EIL) = 50%
 (600/13W) X 0.5 = 23 Fixtures per Dimmer

Electronic Low Voltage (ELV)

Example: Fixture Rating = 13W
 Dimmer Rating = 600W
 Equivalent Incandescent Load (EIL) = 75%
 (600/13W) X 0.75 = 34 Fixtures per Dimmer

INCANDESCENT, MLV, ELV WALL DIMMERS

Manf.	Product Family	Series	Type	Min Light (%)
Lutron	Glyder	GLV*	MLV	3
Leviton	SureSlide	6633*	INC	2
Lutron	Diva	DVLV	MLV	6
Lutron	Diva	DV*	INC	2
Lutron	Skylark	SLV*	MLV	4
Leviton	IllumaTech	IPL016-10Z*	INC	4
Leviton	SureSlide	6613*	MLV	3
Lutron	Diva	DVCL	INC	2
Insteon	Keypad Dimmer	2334-232*	INC	2
Insteon	Dimmer Switch	2477D*	INC	2
Control4	Forward Phase Dimmer	C4-FPD 120*	INC	2
Lutron	Nova	NTELV*	ELV	6
Lutron	Diva	DVELV	ELV	3
Lutron	Maestro	MAELV*	ELV	6
Leviton	Vizia	VPE06-1LX	ELV	3
Leviton	IllumaTech	IPE04*	ELV	6
Lutron	RadioRA2	RRD-6NA	PHA	2
Control4	Adaptive Phase Dimmer	C4-APD 120*	PHA	2

INTEGRATED CONTROL SYSTEMS

Manf.	Product Family	Series	Type	Min Light (%)
Lutron	LP	LP-RPM-4U*	INC	6
Lutron	LP	LP-RPM-4A	PHA	2
Lutron	GrafikEye QS	QSGRJ-3P*	PHA	2
Lutron	GrafikEye QS	PHPM-PA-120	PHA	2
Lutron	HomeWorks QS	PHPM-PA-120	PHA	2
Lutron	HomeWorks QS	HW-RPM-4A	PHA	2
Acuity	nLight nSP5PCD ELV	nSP5PCD*	ELV	2
Insteon	Micro Module Dimmer	2442-222*	INC	2
Control4	8 Ch Dimmer	C4-DIN-8DIM-E	PHA	2

0-10V Dimming (EZ1/GZ1 Driver)

WALL DIMMERS

Manf.	Product Family	Series	Type	Min Light (%)
Lutron	Nova T	NTFTV* +	0-10V	1
Lutron	Nova T	NTSTV-DV*	0-10V	1
Lutron	Nova T	NFTV* +	0-10V	1
ACUITY	SensorSwitch	WSX D WH*	0-10V	1

*: recommended dimmers

+: require a separate relay module to turn fixture on/off

INTEGRATED CONTROL SYSTEMS

Manf.	Product Family	Series	Type	Min Light (%)
Lutron	Energi Tripak	RMJ-5T-DV-B*	0-10V	1
Wattstopper	DLM	LMRC-211*	0-10V	1
Crestron	GreenLight	DIN-4DIMFLV4*	0-10V	1
Leviton	IllumaTech	IP710-DLX	0-10V	1
Lutron	GrafikEyeQS	GRX-TVI*	0-10V	1
Lutron	GrafikEyeQS	GRX-TVI*	0-10V	1
Lutron	HomeworksQS	GRX-TVM2*	0-10V	1



MAX™ 200 (OUTDOOR)

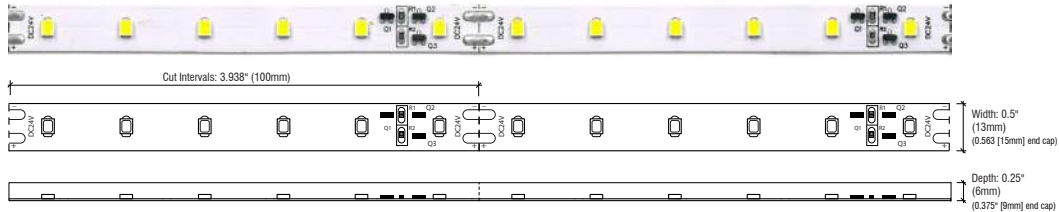
MX-SERIES | LONG DISTANCE | RUBBED COATED

LINEAR LED LIGHTING

Fixture Type: _____

Project: _____

Location: _____

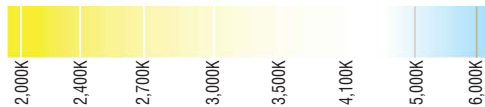


MODEL:	MX27K-WR-24V	MX30K-WR-24V	MX35K-WR-24V	MX40K-WR-24V	MX50K-WR-24V
Kelvin	2700K	3000K	3500K	4000K	5000K
Lumens	220 lm/ft	230 lm/ft	239 lm/ft	248 lm/ft	258 lm/ft
Rating	IP67	IP67	IP67	IP67	IP67

PRODUCT FEATURES

- Max run length - Up to 50ft per power feed
- 90+ CRI
- Dimmable
- 5-year warranty
- 50,000 hour life
- UL-listed for indoor and outdoor use
- 3M™ Industrial adhesive backing
- For use with 24V power supplies

KELVIN COLOR TEMPERATURE SCALE



SPECIFICATIONS

Series	MX - Max™ 200 (Outdoor)
Input Voltage	24V DC / Constant Voltage
Watts per Foot	1.9W/ft @ Maximum Run Length
Beam Spread	120°
Max Run Length	Unlimited, power every 50ft
Production Intervals	3.938" (100mm)
End Cap Dimensions	0.563" (15mm) × 0.375" (9mm)
Tape Dimensions	0.5" (13mm) × 0.25" (6mm)
CRI	90+
Diode	Epistar 2835
Dimming Options	PWM, Triac, 0-10V, DMX, Hi-lume
Temp Range	-40°F (-40°C) to 149°F (65°C)

TOTAL WATTAGE USED AT EACH LENGTH

1ft	2ft	3ft	4ft	5ft	6ft	7ft	8ft	9ft	10ft	11ft	12ft	13ft	14ft	15ft	16ft	17ft
1.886	3.772	5.658	7.544	9.43	11.32	13.2	15.09	16.97	18.86	20.75	22.63	24.52	26.4	28.29	30.18	32.06
18ft	19ft	20ft	21ft	22ft	23ft	24ft	25ft	26ft	27ft	28ft	29ft	30ft	31ft	32ft	33ft	34ft
33.95	35.83	37.72	39.61	41.49	43.38	45.26	47.15	49.04	50.92	52.81	54.69	56.58	58.47	60.35	62.24	64.12
35ft	36ft	37ft	38ft	39ft	40ft	41ft	42ft	43ft	44ft	45ft	46ft	47ft	48ft	49ft	50ft	51ft
66.01	67.9	69.78	71.67	73.55	75.44	77.33	79.21	81.1	82.98	84.87	86.76	88.64	90.53	92.41	94.3	N/A

Conforms to ANSI/UL Standard 2108
Certified to CAN/CSA Standard C22.2 No. 250.0



Questions/Support | 800-789-3810 | quotes@kelvix.com

092619DM



CH-219-N

EXTRUDED ALUMINUM MOUNTING CHANNEL

PRODUCT FEATURES

- Available in 2 Meter Sections
- Extruded Aluminum Construction
- Anodized Matte Finish
- Consult Factory for Custom Lengths & Finishes

SPECIFICATIONS

Model	CH-219-N
Length	78.74" (2m)
External Width	1.7" (42mm)
Internal Width	1.2" (30mm)
Height	1.4" (35mm)

Fixture Type: _____

Project: _____

Location: _____



90° Connector (A)



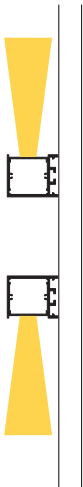
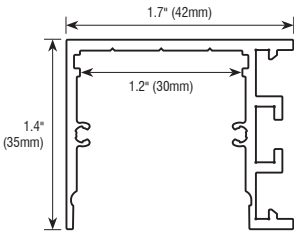
90° Connector (B)



End Caps (EC)



Mounting Clips



ORDERING INFORMATION

Example: CH219N-2-WH-CP-EC

Item	Length	Lens	Mounting	End Cap
CH219N	2		CP	EC
CH219N—CH-219-N	2—2 Meter	CL—Clear FR—Frosted WH—White	CP—Wall Clip	EC—End Caps (included)

Questions/Support | 800-789-3810 | quotes@kelvix.com

041222RY



HLV96

96 WATT-24 VOLT | CLASS 2 SUPPLY

Fixture Type: _____
Project: _____
Location: _____

UL-LISTED FOR WET LOCATIONS

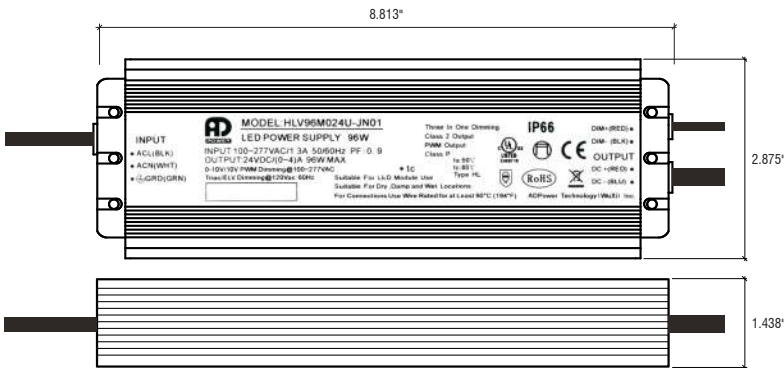
PRODUCT FEATURES

- 431 Hz/Flicker-free Dimming Down to 1%
- Incandescent, ELV, MLV, or 0-10V Dimming
- Protections: Short Circuit/Over Current/Over Voltage
- Free Air Convection Cooling
- Dry/Damp/Wet Rated
- UL-listed Class 2 for Indoor/Outdoor Use



SPECIFICATIONS

Model	HLV96
Input Voltage	100-277 VAC
Output Voltage	24VDC/Constant Voltage
Max. Wattage	96W
Temp Range	-20°F-158°F
Dimensions	8.813" x 2.875" x 1.438"
Classification	Class 2



Conforms to ANSI/UL Standard 2108
Certified to CAN/CSA Standard C22.2 No. 250.0



Questions/Support | 800-789-3810 | quotes@kelvix.com

102819DM



HLV96

96 WATT-24 VOLT | CLASS 2 SUPPLY



MODEL LIST

Model Name	Rated Input Voltage	Rated Output Power	Rated Output Voltage	Output Current	Note
HLV96	100-277 VAC	96W	24V	0-4000 mA	3 In 1 Dimming
	100-120 VAC				

SPECIFICATION

Parameters	Symbols	Test Conditions / Comment	Min	Typ	Max	Units
INPUT						
Input Voltage	V _{IN}		90		305	VAC
Rated Input Voltage	V _{IN RATED}	Dimming with TRIAC / ELV / CL Dimmer	100		120	VAC
		No Phase Cut Dimming	100		277	VAC
Input Frequency	f _{line}		47	50 / 60	63	Hz
Input Current	I _{IN}	Full Load, V _{IN} = 100 VAC			1.3	A
GENERAL CHARACTERISTICS						
Power Factor	PF	30% - 100% Load, V _{IN} = 120 VAC	0.95			PF
		60% - 100% Load, V _{IN} = 230 VAC	0.9			PF
		70% - 100% Load, V _{IN} = 277 VAC	0.9			PF
Total Harmonic Distortion	THD	30% - 100% Load, V _{IN} = 120 VAC			20	%
		60% - 100% Load, V _{IN} = 230 VAC			20	%
		70% - 100% Load, V _{IN} = 277 VAC			20	%
Efficiency	η	Full Load, V _{IN} = 120 VAC	81	83		%
		Full Load, V _{IN} = 230 VAC	83	85		%
		Full Load, V _{IN} = 277 VAC	82	84		%
Turn On Delay Time	T _{on_delay}	Cold Start, No TRIAC Dimmer		0.3	0.5	S
OUTPUT						
Output Voltage	V _{OUT}	No Dimming	23.3	24	24.7	V
No Load Output Voltage	V _{NO LOAD}	No Load, No Dimming	23.7	24	24.3	V
Output Current	I _{OUT}		0		4000	mA
Line Regulation	V _{OUT-LINE}				1	%
Load Regulation	V _{OUT-LOAD}	I _{OUT} from MIN. to MAX.			2	%
Ripple Voltage	V _{OUT-RIPPLE}	Full Load, (pk-to-pk) / Average			3	%
Output Voltage Overshoot	V _{OVERSHOOT}	Turning Power ON			3	%
No Load Power Dissipation	P _{NO-LOAD}				4	W
0-10V OR RESISTOR DIMMING						
The 0-10V or resistor dimming is a dimming manner that can be used to dim the output voltage via a standard commercial wall dimmer (0-10VDC) or an external control voltage source (0-10VDC) or external resistor.						
The dimming range is 100% V _{OUT} to 1% V _{OUT} . When V _{DIM} is 9-10VDC, the output voltage maintains 100% V _{OUT} , and when V _{DIM} is below 0.3V, the output voltage is 1% V _{OUT} .						
Absolute Maximum Voltage on 0-10V Pin	V _{DIM}		-2		15	V
Source Current on 0-10V Dimming Pin	I _{DIM}			100		uA
V _{DIM} Voltage for Full Bright	V _{DIM-MAX}		9			V
Minimum Output Voltage	V _{OUT-MAX}	V _{DIM} = 0.3V				% of V _{OUT}
External Resistor Value at Full Bright	R _{External-MAX}			90		kΩ

Questions/Support | 800-789-3810 | quotes@kelvix.com

102819DM



HLV96

96 WATT-24 VOLT | CLASS 2 SUPPLY



SPECIFICATION (CONT.)

Parameters	Symbols	Test Conditions / Comment	Min	Typ	Max	Units
PWM DIMMING						
The PWM dimming is a dimming manner that can be used to dim the output voltage via the duty cycle of PWM signal.						
The dimming range is 100% V_{OUT} to 1% V_{OUT} . When the duty cycle is 90% to 100%, the output voltage reaches 100% V_{OUT} , and the output voltage maintains 1% V_{OUT} when the duty cycle below 3%.						
PWM Frequency	f_{PWM}		0.1		1	KHz
High Level Voltage of PWM Signal	$V_{PWM-High}$	$V_{PWM-High}$ Affect Output Voltage	-	10	-	V
Lower Level Voltage of PWM Signal	$V_{PWM-Low}$	$V_{PWM-Low}$ Affect Output Voltage	0		1	V
Minimum Output Voltage	$V_{OUT-MIN}$			1		% of V_{OUT}
TRIAC DIMMING						
The unit is compatible with leading-edge and trailing-edge dimmer.						
Input Voltage	$V_{IN-TRIAC DIM}$		100		120	VAC
Dim Output Voltage	$V_{OUT-TRIAC}$	PWM Output	0	-	100	% of V_{OUT}
Suggest Load Range	$P_{Suggest}$	V_{IN} from 100 VAC to 120 VAC	9.6		96	W
PROTECTION						
Over Voltage Protection	V_{OVP}	Latch Off Mode	28	32	36	V
Over Current Protection	I_{OCP}	It will recover automatically after fault condition is removed.	4.0	4.1	4.5	A
Over Temperature Protection	T_{OTP}	If the case temperature exceeds OTP point, the output voltage of the driver is automatically reduced.	90	95	100	°C
Short Circuit Protection		It will recover automatically after fault conditions is removed.				
ENVIRONMENT						
Storage Temperature	$T_{Storage}$	Humidity: 5% RH to 95% RH	-40	-	+85	°C
Operating Relative Humidity	H_a	Non Condensing	10		95	%
OTHERS						
Life Time	T_{Life}	Full load, 65 °C Case Temperature	30			kHrs
MTBF	T_{MTBF}	Full Load, 120 VAC Input, 25 °C Ambient Temperature	200			kHrs
Dimension L × W × H	224 mm × 73 mm × 36.5 mm (8.813" × 2.875" × 1.438")					
SAFETY COMPLIANCE						
UL Listed	UL8750 Compliance to UL1310 Class 2, CSA-C22.2 No. 107.1					
EMC COMPLIANCE						
FCC Part 15B	Conducted Emission Test and Radiated Emission Test					
Note: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25 °C and V_{IN} = 100 – 277 VAC.						

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102819DM



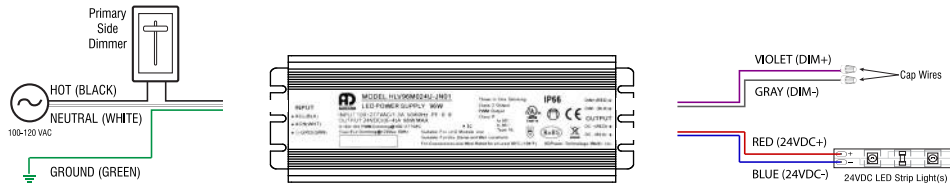
HLV96

96 WATT-24 VOLT | CLASS 2 SUPPLY

TYPICAL APPLICATION



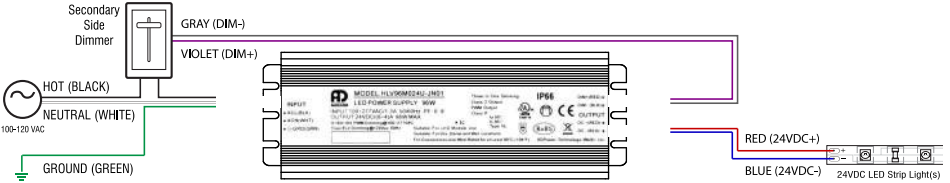
PRIMARY SIDE DIMMING (120V ONLY)



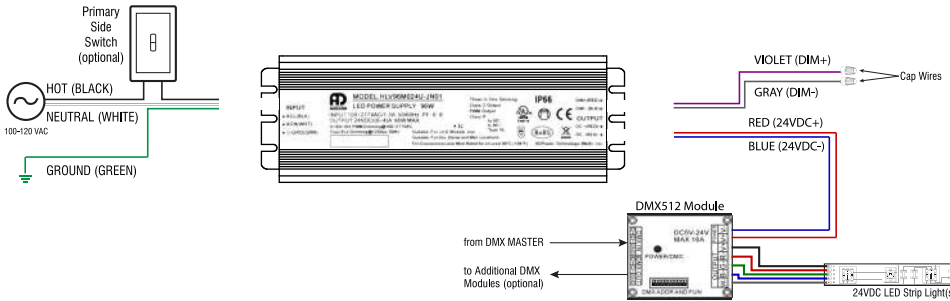
SECONDARY SIDE SWITCHING (120-277V)



SECONDARY SIDE DIMMING (0-10V)



SECONDARY SIDE DIMMING (DMX)



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