

ALT1

ARCHITECTURAL AREA/SITE

FEATURES

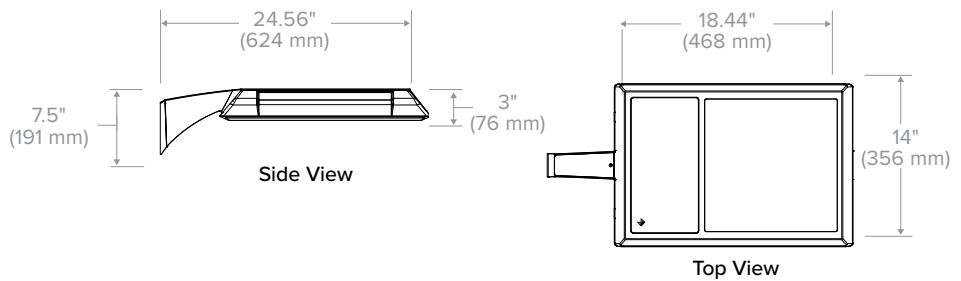
- Elegant form factor
- High performance optics up to 17,500 delivered lumens
- Diffusion lens for low glare comfort
- NX lighting controls options
- IP66 Rated



CONTROL TECHNOLOGY



Altitude®



SPECIFICATIONS

CONSTRUCTION

- One piece die-cast, low copper (<0.6% Cu) Aluminum Alloy 360 with vents and .100" minimum wall thickness.
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.
- Optional lens is impact resistant 1/8" tempered glass with anti-reflective coating.
- Optional lens has a one-piece extruded vulcanized silicone gasket.
- Optional lens frame one piece die-cast, low copper (<0.6% Cu) Aluminum Alloy 360 and .100" minimum wall thickness.
- Lens frame has a one-piece O-ring extruded vulcanized silicone gasket.
- Mid-frame one piece die-cast, low copper (<0.6% Cu) Aluminum Alloy 360 and .100" minimum wall thickness.
- Mid-frame secures to Lens Frame and housing by stainless steel recessed Allen-head screws.
- Silicone gaskets throughout.
- All external fasteners are stainless steel.

OPTICS

- LEDs mount to a metal printed circuit board assembly (MCPCB.)
- Optical lenses are clear injection molded PMMA acrylic.
- Optional Backlight Control on each LED module to completely control unwanted backlight.
- Optional fixture finish optical surfaces will not exceed BUG ratings of the standard white finish and will be greater than or equal to the delivered lumens of the optional matte black optical surface finish.

INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

ELECTRICAL

- Universal voltage, 120 through 277V with a ±10% tolerance. Driver is Underwriters Laboratories listed.
- High voltage configurations, 347/480. Driver has a 0-10V dimming interface for multi-level illumination options. Driver is Underwriters Laboratories listed

ELECTRICAL (CONTINUED)

- "Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components.
- Drivers have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments.
- Luminaire are capable of operating at 100% brightness in a 40°C environment. Both driver and optical array have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C.
- Modular wiring harness in the service area provides user access to the dimming circuitry.
- Optional factory programmed dimming profile.
- Surge protection: 20,000kA in series.
- SF for 120, 277, 347 Line volts.
DF for 208, 240, 480 Line volts.
- Wiring: No. 18AWM rated 105°C, wet rating.

	Weight	EPA- Front	EPA- Side
ALT1	21.5 lbs / 9.75 kg	0.37 ft²	0.64 ft²

(Specifications continued on page 4)

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ORDERING GUIDE

Example: ALT1-54L-120-3K8-3-UNV-A34-GT-CLR

CATALOG #

HOUSING

ALT1	-	-	-	-	-	-	-			
Housing	LED Engine		CCT / CRI ¹⁴		Distribution		Rotation	Voltage		
ALT1 Architectural Area/Site	28L-20	20W, 3,000 lm	AM ²	Monochromatic Amber	FR	Type I/Front Row	(Blank)	Blank for no rotation	UNV	120–277V
	28L-40	40W, 5,000 lm			2	Type II	L ³	Optic rotation left	347	347V
	28L-60	60W, 7,500 lm	27K8 ¹³	2700K, 80 CRI	3	Type III	R ³	Optic rotation right	480	480V
	28L-85 ¹	85W, 10,000 lm	27K9 ¹³	2700K, 90 CRI	4	Type IV				
	54L-95	95W, 12,500 lm	3K7	3000K, 70 CRI	4W	Type IV Wide				
	54L-120	120W, 15,000 lm	3K8	3000K, 80 CRI	5QM	Type V Square Medium				
	54L-155 ¹	155W, 17,000 lm	3K9	3000K, 90 CRI	5QN	Type V Square Narrow				
			35K8 ¹³	3500K, 80 CRI	5R	Type V Rectangular				
			35K9 ¹³	3500K, 90 CRI	5W	Type V Wide (Round)				
			4K7	4000K, 70 CRI	CL	Corner Left				
		4K8	4000K, 80 CRI	CR	Corner Right					
		4K9 ¹³	4000K, 90 CRI							
		5K7	5000K, 70 CRI							
		5K8 ¹³	5000K, 80 CRI							
		5K9 ¹³	5000K, 90 CRI							

Equivalent

ALT60-P35 = 28L-85

ALT96-P35 = 54L-95

ALT60-P70 = 54L-120

Mounting	Fixture Finish	Control Options		Options	Control Accessories
ASQ Arm Square pole	BLS Black Gloss Smooth	7PR	7 pin PCR, wireless control enabled	BC ¹⁰ Backlight Control	SCPREMOTE Remote control for SCP option. Order at least one per project to program and control the occupancy sensor
A34 Arm mt 3.3–4.2" OD pole	BLT Black Matte Textured	7PR-TL	7 pin PCR with twist lock photocontrol	SF Single Fuse	
A46 Arm mt 4.5–6.0" OD pole	DBS Dark Bronze Gloss Smooth	7PR-SC	7 pin PCR with shunting cap	DF Double Fuse	WIR-RME-L LightGRID+™ External Fixture Module
MAF Horizontal Slipfitter 2.375" OD arm	DBT Dark Bronze Matte Textured	AD-01 ⁵	AstroDIM: 50% output at midnight	TB Terminal Block	
SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2.375" OD)	GTT Graphite Matte Textured	AD-02 ⁵	AstroDIM: 50% output midnight to 4 AM	CLR Clear Lens	NXOFM-1R1D-UNV NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming
VSF Vertical Slipfitter Mount for 2" pipe tenon, (2.375" OD)	LGS Light Grey Gloss Smooth	AD-03	AstroDIM: 50% output 10PM	HDL ¹¹ Diffuse Lens	
WB Wall Bracket for area wall mount	LGT Light Grey Matte Textured	AD-04 ⁵	AstroDIM: 50% output 10PM to 4AM	CP ¹⁵ Clear Polycarbonate Lens	
	PSS Platinum Silver Gloss Smooth	NXW ^{6,7}	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor		
	VGT Verde Green Matte Textured	SCL-8F ⁸	Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights up to 8'		
	WHS White Gloss Smooth	SCL-40F ⁸	Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights 9' to 40'		
	WHT White Matte Textured	SCP-8F	Remote control programmable line voltage sensor, use with SCPREMOTE		
	Color Option	SCP-40F	Remote control programmable line voltage sensor, use with SCPREMOTE		
	CC ⁴ Custom Color	NXWS16F ^{6,7}	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming		
		NXWS40F ^{6,7}	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming		

Notes:

- Amber not available for the 28L-85 and 54L-155 configurations
- Turtle friendly
- Not available with 5QM, 5QN, 5R, 5W, CL, and CR distributions.
- Consult factory for custom color, marine and corrosive finish options.
- Not available with 28L-20 configuration of the LED Engine
- Not available with other sensor or wireless control options
- Not available in 480V.
- UNV only.
- Not available with all Type 5 distributions, CLR, CP, or HDL option.
- Only available in Type 3 or Type 5W.
- See Lumen Multiplier chart on Page 16 for lumen scaling factor
- 5-step MacAdam Ellipse Binning is standard. Consult factory for 3-step MacAdam Ellipse Binning
- IK10 rated. Consult factory for details

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OUTDOOR LIGHTING CONTROLS OPTIONS

CONTROLS FUNCTIONALITY



	Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
		Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
NX Wireless	NXOFMIRID-UV NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming	✓	✓	✓	Paired with external control	✓	✓	✓	✓	-	NXOFMIRID-UV
	NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	-	-	✓	✓	✓	-	NXRM2-H
LightGRID+	WIR-RME-L LightGRID+ On Fixture Module	✓	-	✓	-	-	✓	✓	Gateway	-	WIR-RME-L

DEFAULT SETTINGS

NX Wireless	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	On
	"Passcode Factory Passcode: HubbN3T"	Enabled

Stand Alone	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Daylight Sensor	Disabled

NX LIGHTING CONTROLS FREE APP

CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: https://play.google.com/store/apps/details?id=io.cordova.NX8TR&hl=en_US&gl=US



Apple App



Google Play

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CONTROLS FUNCTIONALITY

	Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
		Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
Independent	AD AutoDIM Timer Based Dimming	-	-	✓	-	-	-	✓	-	-	AD
	7PR 7-Pin Receptacle	-	-	Paired with external control	-	Paired with external control	-	Paired with external control	-	-	7PR
	7PR-SC 7-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	7PR-SC
	3PR 3-Pin twist lock	-	-	-	-	-	-	Paired with external control	-	-	3PR
	3PR-SC 3-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	3PR-SC
	3PR-TL 3-Pin with photocontrol	-	-	-	-	✓	-	✓	-	-	3PR-TL

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SPECIFICATIONS (CONTINUED)

- DLC® (DesignLights Consortium) Qualified, with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org

WARRANTY

- 5 year warranty

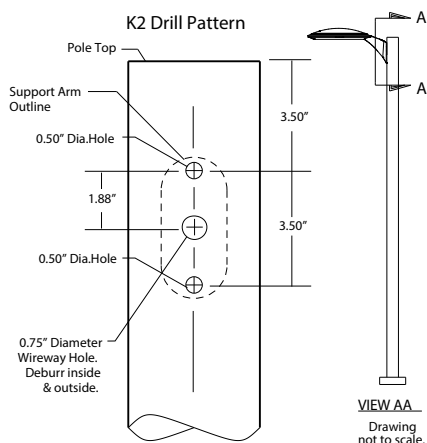
Mounting:

Support Arm:

- Die-cast, low copper aluminum alloy, with splice access cover.
- Die-cast pole adapter and an internal reinforcing plate are provided with a wire strain relief.
- The arm adapter is square or circular cut for specified pole size and shape.
- For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. The block accepts #14 to #8 wire sizes and is factory prewired to the electrical module's quick-disconnect plug inside the electrical compartment.

Optional Wall Mount:

- Optional, cast aluminum mounting plate attaches to a wall over a junction box and the speed mount is bolted to the cover plate. To complete the wiring, the luminaire assembly slides over the mounting plate.



PRODUCT EXCEPTIONS & DETAILS

Configuration			EPA
	1SA	1 Arm Side Mount	0.64
	2SL	2 Arm Side Mount	1.01
	2SB	2 Arm Side Mount	1.28
	3SY	3 Arm Side Mount	1.48
Configuration			EPA
	3ST*	3 Arm Side Mount	1.48
	4SC	4 Arm Side Mount	1.65
	1W	Single Wall Mount	1.65
	MAF	Horizontal Slipfitter	1.48

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SPECIFICATIONS (CONTINUED)

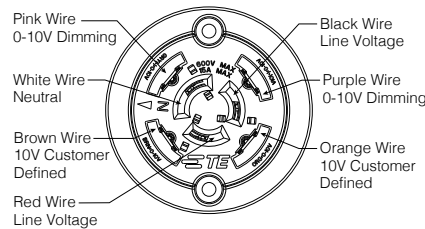
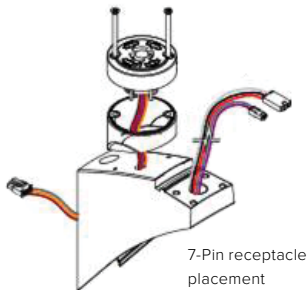
CONTROLS:

7PR

Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment. 7-pin construction allows for a user-defined interface and provides a controlled definition of operational performance. ANSI twist-lock control module by-others.

Standard customer operation modes:

1. Traditional on/off photoelectric control.
2. 5-pin wireless photoelectric control for added dimming feature.
3. 7-pin wireless photoelectric control for dimming and additional I/O connections for customer use.



Dimming:

- Dimming range from 100% to 10% through the use of the standard 0-10V interface on the programmable driver.



- Modular wiring harness in the service area provides user access to the dimming circuitry.
- Dimming circuitry compatible with 0-10V, user-defined control devices.
- Optional factory programmed dimming profile.

WIRELESS CONTROLS

LightGRID+™

LightGRID+™ wireless control modules allow an individual fixture to managed, monitored and measured. The modules communicate securely over a robust certified meshed radio signal. The LightGRID+™ modules provide on/off/dim control, external device input, alerts and metering.

WIR-RME-L

LightGRID+™ External Module, 120-480V, 1000ft range (LOS), Internal Photocell, 1 Digital Input, Compatible with the A-25-7H option

NX LIGHTING CONTROLS

NX lighting controls platform utilizes a Distributed Network Architecture (DNA) that connects intelligent devices including luminaires, controllers, panels, occupancy sensors, photocells, wall switches and dimmers, creating a system with an unmatched level of reliability, scalability and simplicity

Round Pole-Mounted Occupancy Sensor up to 30'. Select voltage and finish color.

SCH-R

Round Pole-Mounted Occupancy Sensor: up to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-R4'/277²/BL³

Square Pole-Mounted Occupancy Sensor up to 30'. Select voltage and finish color.

SCH-S

Square Pole-Mounted Occupancy Sensor: up to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-S/277²/BL³

AstroDIM

AstroDIM provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.

Optional Fusing:

SF for 120, 277, and 347 Line volts

DF for 208, 240, and 480 Line volts

Hight temperature fuse holders factory installed inside the fixture housing.

Fuse is included.

CAUTION:

Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Certifications and Listings:

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures.
- ANSI C136.31-2010 Vibration tested and compliant 1.5G and 4G reference page 16
- RoHS compliant.
- IP66 rated
- IEC 66262 Mechanical Impact Code IK08 and IK10
- IDA approved, 3000K and warmer CCTs only.
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to <https://www.currentlighting.com/resources/america-solutions>)

DELIVERED LUMENS

LEDs #	NW (Nominal Watts)	NL (Nominal Lumens)	LO (Lens Options)	Dist. (Distribution)	Amber				3000K 70CRI					4000K 70CRI					5000K 70CRI					
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G			B	U	G	
28L	20	3,000	No Lens	FR	573	0	0	0	26	3110	0	0	0	141	3274	0	0	0	149	3318	1	0	0	148
				FR-BC	375	0	0	0	17	2036	0	0	0	93	2143	0	0	0	97	2172	0	0	0	97
				2	535	0	0	0	24	2903	1	0	1	132	3056	1	0	1	139	3097	1	0	1	138
				2-BC	326	0	0	0	15	1771	0	0	0	80	1864	0	0	0	85	1889	0	0	0	84
				3	542	0	0	1	25	2945	1	0	1	131	3100	1	0	1	138	3141	1	0	1	140
				3-BC	328	0	0	0	15	1779	0	0	1	81	1873	0	0	1	85	1898	0	0	1	85
				4	542	0	0	0	25	2943	0	0	1	134	3098	0	0	1	141	3139	0	0	1	141
				4-BC	403	0	0	0	18	2189	0	0	1	100	2304	0	0	1	105	2335	0	0	1	104
				4W	539	0	0	1	25	2927	1	0	1	133	3081	1	0	1	140	3122	1	0	1	139
				4W-BC	308	0	0	1	14	1673	0	0	1	76	1761	0	0	1	80	1785	0	0	1	80
				5R	557	1	0	1	25	3025	2	0	2	137	3184	2	0	2	145	3227	2	0	2	144
				5QM	565	0	0	0	26	3069	2	0	0	139	3230	2	0	0	147	3273	2	0	0	146
				5QN	562	0	0	0	26	3051	2	0	0	139	3211	2	0	0	146	3254	2	0	0	145
				5W	557	1	0	0	25	3024	2	0	1	137	3183	2	0	1	145	3226	2	0	1	144
				CL	547	0	0	1	25	2972	1	0	1	135	3128	1	0	1	142	3170	1	0	1	144
				CR	547	0	0	0	25	2972	1	0	1	135	3128	1	0	1	142	3170	1	0	1	144
			Clear Lens	FR	536	0	0	0	24	2909	0	0	0	132	3062	0	0	0	139	3103	0	0	0	141
				2	500	0	0	0	23	2715	1	0	1	123	2858	1	0	1	130	2896	1	0	1	132
				3	507	0	0	1	23	2754	1	0	1	125	2899	1	0	1	132	2938	1	0	1	134
				4	507	0	0	0	23	2752	0	0	1	125	2897	0	0	1	132	2936	0	0	1	133
				4W	504	0	0	1	23	2738	1	0	1	124	2882	1	0	1	131	2920	1	0	1	133
				5R	521	0	0	0	24	2829	2	0	2	129	2978	2	0	2	135	3018	2	0	2	137
				5QM	529	0	0	0	24	2870	2	0	0	130	3021	2	0	0	137	3062	2	0	0	139
				5QN	526	0	0	0	24	2853	2	0	0	130	3003	2	0	0	137	3044	2	0	0	138
				5W	521	1	0	0	24	2829	2	0	1	129	2977	2	0	1	135	3017	2	0	1	137
				CL	512	0	0	0	23	4352	1	0	1	115	4581	1	0	1	121	4643	1	0	1	122
			CR	512	0	0	0	23	4352	1	0	1	115	4581	1	0	1	121	4643	1	0	1	122	
			HDL Lens	3	431	0	0	0	20	2779	1	0	1	126	2926	1	0	1	133	2965	1	0	1	135
				5W	443	0	0	0	20	2779	1	0	1	126	2926	1	0	1	133	2965	1	0	1	135

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DELIVERED LUMENS (CONTINUED)

LEDs #	NW (Nominal Watts)	NL (Nominal Lumens)	LO (Lens Options)	Dist. (Distribution)	Amber					3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G			B	U	G	
28L	40	5,000	No Lens	FR	897	0	0	0	24	4870	1	0	0	128	5127	1	0	0	135	5195	1	0	0	137
				FR-BC	587	0	0	0	15	3189	0	0	0	84	3356	0	0	0	88	3401	0	0	0	90
				2	837	0	0	0	22	4546	1	0	1	120	4785	1	0	1	126	4849	1	0	1	128
				2-BC	511	0	0	0	13	2773	0	0	1	73	2919	0	0	1	77	2958	0	0	1	78
				3	849	0	0	1	22	4611	1	0	2	121	4854	1	0	2	128	4919	1	0	2	129
				3-BC	513	0	0	0	14	2786	0	0	1	73	2933	0	0	1	77	2972	0	0	1	78
				4	849	0	0	0	22	4608	1	0	2	121	4851	1	0	2	128	4915	1	0	2	129
				4-BC	631	0	0	0	17	3428	0	0	1	90	3608	0	0	1	95	3656	0	0	1	96
				4W	844	0	0	1	22	4584	1	0	2	121	4825	1	0	2	127	4889	1	0	2	129
				4W-BC	483	0	0	0	13	2621	0	0	1	69	2758	0	0	1	73	2795	0	0	1	74
				5R	873	1	0	1	23	4737	2	0	2	125	4986	3	0	1	131	5053	3	0	3	133
				5QM	885	1	0	0	23	4806	2	0	1	126	5058	2	0	1	133	5126	2	0	1	135
				5QN	880	1	0	0	23	4777	2	0	0	126	5028	2	0	0	132	5096	2	0	0	134
				5W	872	1	0	1	23	4736	3	0	1	125	4985	2	0	2	131	5052	3	0	1	133
				CL	857	0	0	0	23	4653	1	0	1	122	4898	1	0	1	129	4964	1	0	2	131
				CR	857	0	0	0	23	4653	1	0	1	122	4898	1	0	1	129	4964	1	0	2	131
			Clear Lens	FR	839	0	0	0	22	4555	1	0	0	120	4795	1	0	0	126	4859	1	0	0	128
				2	783	0	0	0	21	4252	1	0	1	112	4476	1	0	1	118	4536	1	0	1	119
				3	798	0	0	0	21	4333	1	0	1	114	4561	1	0	1	120	4622	1	0	1	121
				4	794	0	0	0	21	4310	0	0	2	113	4537	1	0	2	119	4598	1	0	2	121
				4W	790	0	0	1	21	4287	1	0	2	113	4513	1	0	2	119	4573	1	0	2	120
				5R	816	1	0	1	21	4431	2	0	2	117	4663	2	0	2	123	4726	2	0	2	124
				5QM	828	1	0	0	22	4495	2	0	1	118	4731	2	0	1	125	4794	2	0	1	126
				5QN	823	1	0	0	22	4468	2	0	0	118	4703	2	0	0	124	4766	2	0	0	125
				5W	816	1	0	1	21	4430	3	0	1	117	4663	3	0	1	123	4725	3	0	1	124
				CL	802	0	0	0	21	4352	1	0	1	115	4581	1	0	1	121	4643	1	0	1	122
			CR	802	0	0	0	21	4352	1	0	1	115	4581	1	0	1	121	4643	1	0	1	122	
			HDL Lens	3	689	0	0	0	18	3741	1	0	1	98	3937	1	0	1	104	3990	1	0	1	105
				5W	717	0	0	0	19	3891	2	0	1	102	4095	2	0	1	108	4150	2	0	1	109

ALT1

ARCHITECTURAL AREA/SITE

DELIVERED LUMENS (CONTINUED)

LEDs #	NW (Nominal Watts)	NL (Nominal Lumens)	LO (Lens Options)	Dist. (Distribution)	Amber					3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G			B	U	G	
28L	60	7,500	No Lens	FR	1353	0	0	0	23	7347	1	0	1	122	7733	1	0	1	129	7837	1	0	1	131
				FR-BC	886	0	0	0	15	4810	0	0	0	80	5063	0	0	0	84	5131	0	0	0	86
				2	1263	0	0	1	21	6858	1	0	2	114	7218	1	0	2	120	7315	1	0	2	122
				2-BC	771	0	0	0	13	4183	0	0	1	70	4403	0	0	1	73	4462	0	0	1	74
				3	1281	0	0	0	21	6956	1	0	2	116	7322	1	0	2	122	7420	1	0	2	123
				3-BC	774	0	0	1	13	4203	0	0	1	70	4424	0	0	1	74	4483	0	0	1	75
				4	1281	0	0	0	21	6951	1	0	2	116	7317	1	0	2	122	7415	1	0	2	124
				4-BC	953	0	0	0	16	5171	0	0	2	86	5443	0	0	2	91	5516	0	0	2	92
				4W	1274	0	0	1	21	6915	1	0	2	115	7278	1	0	2	121	7376	1	0	2	123
				4W-BC	728	0	0	0	12	3953	0	0	2	66	4161	0	0	2	69	4216	0	0	2	70
				5R	1316	1	0	1	22	7145	3	0	3	119	7521	3	0	3	125	7622	3	0	3	127
				5QM	1335	1	0	0	22	7249	3	0	1	121	7630	3	0	1	127	7732	3	0	1	129
				5QN	1327	1	0	0	22	7206	3	0	0	120	7585	3	0	0	126	7687	3	0	0	128
				5W	1316	1	0	1	22	7144	3	0	2	119	7520	3	0	2	125	7620	3	0	2	127
				CL	1293	0	0	0	22	7019	1	0	2	117	7388	1	0	2	123	7487	1	0	2	125
				CR	1293	0	0	0	22	7019	1	0	2	117	7388	1	0	2	123	7487	1	0	2	125
			Clear Lens	FR	1266	1	0	1	21	6872	1	0	1	115	7233	1	0	1	121	7330	1	0	1	122
				2	1182	0	0	1	20	6414	1	0	2	107	6751	1	0	2	113	6842	1	0	2	114
				3	1198	0	0	1	20	6506	1	0	2	108	6848	1	0	2	114	6940	1	0	2	116
				4	1198	0	0	0	20	6502	1	0	2	108	6844	1	0	2	114	6935	1	0	2	116
				4W	1191	0	0	1	20	6468	1	0	2	108	6807	1	0	2	113	6899	1	0	2	115
				5R	1231	1	0	1	21	6683	3	0	3	111	7035	3	0	3	117	7129	3	0	3	119
				5QM	1249	1	0	0	21	6780	3	0	1	113	7137	3	0	1	119	7232	3	0	1	121
				5QN	1231	1	0	0	21	6683	2	0	0	111	7035	3	0	0	117	7129	3	0	0	119
				5W	1231	1	0	1	21	6682	3	0	2	111	7033	3	0	2	117	7128	3	0	2	119
				CL	1209	0	0	0	20	6565	1	0	2	109	6911	1	0	2	115	7003	1	0	2	117
				CR	1209	0	0	0	20	6565	1	0	2	109	6911	1	0	2	115	7003	1	0	2	117
			HDL Lens	3	1019	0	0	1	17	5562	2	0	1	93	5854	2	0	1	98	5933	2	0	1	99
				5W	1046	1	0	0	17	5613	2	0	1	94	5908	2	0	1	98	5987	2	0	1	100

ALT1

ARCHITECTURAL AREA/SITE

DELIVERED LUMENS (CONTINUED)

LEDs #	NW (Nominal Watts)	NL (Nominal Lumens)	LO (Lens Options)	Dist. (Distribution)	Amber					3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G			B	U	G	
28L	85	10,000	No Lens	FR	Configuration Not Available	9699	1	0	1	113	10209	1	0	1	119	10346	1	0	1	120				
				FR-BC		6350	0	0	1	74	6684	0	0	1	78	6773	0	0	1	79				
				2		9054	1	0	2	105	9530	2	0	2	111	9657	2	0	2	112				
				2-BC		5523	0	0	1	64	5813	0	0	1	68	5891	0	0	1	68				
				3		9183	1	0	2	107	9666	1	0	2	112	9795	1	0	2	114				
				3-BC		5549	0	0	2	65	5841	0	0	2	68	5919	0	0	2	69				
				4		9177	1	0	2	107	9660	1	0	2	112	9789	1	0	2	114				
				4-BC		6827	0	0	2	79	7186	0	0	2	84	7282	0	0	2	85				
				4W		9129	1	0	3	106	9609	1	0	3	112	9737	1	0	3	113				
				4W-BC		5219	0	0	2	61	5493	0	0	2	64	5567	0	0	2	65				
				5R		9433	3	0	3	110	9929	3	0	3	115	10062	3	0	3	117				
				5QM		9570	3	0	1	111	10073	3	0	1	117	10208	3	0	1	119				
				5QN		9514	3	0	0	111	10014	3	0	0	116	10148	3	0	0	118				
				5W		9432	4	0	2	110	9927	4	0	2	115	10060	4	0	2	117				
				CL		9267	2	0	2	108	9754	2	0	2	113	9885	2	0	2	115				
				CR		9267	2	0	2	108	9754	2	0	2	113	9885	2	0	2	115				
			Clear Lens	FR		9072	1	0	1	105	9549	1	0	1	111	9677	1	0	1	113				
				2		8468	1	0	2	98	8913	1	0	2	104	9033	1	0	2	105				
				3		8589	1	0	2	100	9041	1	0	2	105	9162	1	0	2	107				
				4		8584	1	0	2	100	9035	1	0	2	105	9156	1	0	2	106				
				4W		8538	1	0	2	99	8987	1	0	3	105	9108	1	0	3	106				
				5R		8823	3	0	3	103	9287	3	0	3	108	9411	3	0	3	109				
				5QM		8951	3	0	1	104	9422	3	0	1	110	9548	3	0	1	111				
				5QN		8898	3	0	0	103	9366	3	0	0	109	9491	3	0	0	110				
				5W		8822	3	0	2	103	9285	4	0	2	108	9410	4	0	2	109				
				CL		8668	1	0	2	101	9123	2	0	2	106	9246	2	0	2	108				
				CR		8668	1	0	2	101	9123	2	0	2	106	9246	2	0	2	108				
			HDL Lens	3		7343	2	0	2	85	7729	2	0	2	90	7832	2	0	2	91				
				5W		7410	2	0	1	86	7799	2	0	1	91	7904	2	0	1	92				

DELIVERED LUMENS (CONTINUED)

LEDs #	NW (Nominal Watts)	NL (Nominal Lumens)	LO (Lens Options)	Dist. (Distribution)	Amber					3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G			B	U	G	
54L	95	12,500	No Lens	FR	2172	0	0	0	23	11792	1	0	1	125	12412	1	0	1	132	12578	1	0	1	134
				FR-BC	1446	0	0	0	15	7848	0	0	1	83	8260	0	0	1	88	8371	0	0	1	90
				2	2065	0	0	1	22	11210	2	0	2	119	11800	2	0	2	126	11958	2	0	2	126
				2-BC	1104	0	0	0	12	5993	0	0	1	64	6308	0	0	1	67	6392	0	0	1	69
				3	2068	0	0	1	22	11225	1	0	2	119	11815	2	0	2	126	11974	2	0	2	127
				3-BC	1156	0	0	0	12	6273	0	0	2	67	6603	0	0	2	70	6691	0	0	2	72
				4	2084	0	0	1	22	11311	1	0	2	120	11906	1	0	3	127	12065	1	0	3	128
				4-BC	1343	0	0	0	14	7291	0	0	2	78	7674	0	0	2	82	7777	0	0	2	84
				4W	2064	0	0	1	22	11203	2	0	3	119	11792	2	0	3	125	11950	2	0	3	127
				4W-BC	1032	0	0	0	11	5603	0	0	2	60	5898	0	0	2	63	5977	0	0	2	65
				5R	2141	1	0	1	23	11623	3	0	3	124	12234	3	0	3	130	12398	3	0	3	131
				5QM	2168	1	0	0	23	11770	3	0	2	125	12389	3	0	2	132	12555	3	0	2	133
				5QN	2174	1	0	0	23	11799	3	0	0	126	12420	3	0	0	132	12586	3	0	0	133
				5W	2136	2	0	1	23	11594	4	0	2	123	12204	4	0	2	130	12367	4	0	2	131
				CL	2087	1	1	2	22	11328	2	0	2	121	11923	2	0	2	127	12083	2	0	2	129
				CR	2087	1	0	1	22	11328	2	0	2	121	11923	2	0	2	127	12083	2	0	2	129
			Clear Lens	FR	2032	0	0	0	22	11029	1	0	1	117	11609	1	0	1	124	11765	1	0	1	125
				2	1932	1	0	1	21	10485	2	0	2	112	11036	2	0	2	117	11184	2	0	2	119
				3	1944	0	0	1	21	10555	1	0	2	112	11110	1	0	2	118	11259	1	0	2	120
				4	1949	0	0	1	21	10579	1	0	2	113	11136	1	0	2	118	11285	1	0	2	120
				4W	1930	0	0	1	21	10479	1	0	3	111	11029	2	0	3	117	11177	2	0	3	119
				5R	2003	1	0	1	21	10871	3	0	3	116	11443	3	0	3	122	11596	3	0	3	123
				5QM	2028	1	0	0	22	11009	3	0	2	117	11588	3	0	2	123	11743	3	0	2	125
				5QN	2003	1	0	0	21	10871	3	0	0	116	11443	3	0	0	122	11596	3	0	0	123
				5W	1998	2	0	1	21	10845	4	0	2	115	11415	4	0	2	121	11568	4	0	2	123
				CL	1952	0	0	1	21	10595	2	0	2	113	11152	2	0	2	119	11302	2	0	2	120
				CR	1952	1	0	1	21	10595	2	0	2	113	11152	2	0	2	119	11302	2	0	2	120
			HDL Lens	3	1609	1	0	1	17	8736	2	0	2	93	9195	2	0	2	98	9318	2	0	2	100
				5W	1686	1	0	1	18	9152	3	0	1	97	9633	3	0	1	102	9762	3	0	1	104

ALT1

ARCHITECTURAL AREA/SITE

DELIVERED LUMENS (CONTINUED)

LEDs #	NW (Nominal Watts)	NL (Nominal Lumens)	LO (Lens Options)	Dist. (Distribution)	Amber					3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G			B	U	G	
54L	120	15,000	No Lens	FR	2651	0	0	0	22	14390	1	0	1	118	15146	1	0	1	124	15349	1	0	1	125
				FR-BC	1764	0	0	0	14	9577	1	0	1	78	10080	1	0	1	83	10215	1	0	1	84
				2	2520	1	0	1	21	13680	2	0	2	112	14399	2	0	2	118	14592	2	0	2	120
				2-BC	1347	0	0	0	11	7313	0	0	1	60	7697	0	0	2	63	7800	0	0	2	64
				3	2523	0	0	1	21	13698	2	0	3	112	14418	2	0	3	118	14611	2	0	3	120
				3-BC	1410	0	0	1	12	7655	0	0	2	63	8057	0	0	2	66	8165	0	0	2	67
				4	2543	0	0	1	21	13803	1	0	3	113	14528	1	0	3	119	14723	1	0	3	121
				4-BC	1639	0	0	0	13	8897	0	0	2	73	9365	0	0	2	77	9490	0	0	2	78
				4W	2518	1	0	1	21	13671	2	0	3	112	14390	2	0	3	118	14583	2	0	4	120
				4W-BC	1260	0	0	0	10	6838	1	0	2	56	7197	1	0	2	59	7294	1	0	2	60
				5R	2613	2	0	2	21	14184	4	0	4	116	14929	4	0	4	122	15129	4	0	4	124
				5QM	2646	3	0	2	22	14363	3	0	2	118	15118	4	0	2	124	15321	4	0	2	126
				5QN	2652	1	0	0	22	14399	4	0	4	118	15156	4	0	1	124	15359	4	0	1	126
				5W	2606	2	0	1	21	14149	4	0	2	116	14893	4	0	2	122	15092	4	0	2	124
				CL	2546	1	0	1	21	13823	2	0	2	113	14550	2	0	3	119	14745	2	0	3	121
				CR	2546	1	0	1	21	13823	2	0	2	113	14550	2	0	3	119	14745	2	0	3	121
			Clear Lens	FR	2479	1	0	1	20	13459	1	0	1	110	14167	1	0	1	116	14356	1	0	2	118
				2	2357	1	0	1	19	12795	2	0	2	105	13468	2	0	2	110	13648	2	0	2	112
				3	2360	0	0	1	19	12812	2	0	2	105	13486	2	0	2	111	13666	2	0	2	112
				4	2378	0	0	1	19	12910	1	0	3	106	13589	1	0	3	111	13771	1	0	3	113
				4W	2356	1	0	1	19	12787	2	0	3	105	13459	2	0	3	110	13640	2	0	3	112
				5R	2444	1	0	1	20	13266	4	0	4	109	13964	4	0	4	114	14151	4	0	4	116
				5QM	2475	1	0	0	20	13434	3	0	2	110	14140	3	0	2	116	14330	3	0	2	117
				5QN	2481	1	0	0	20	13467	4	0	0	110	14175	4	0	0	116	14365	4	0	0	118
				5W	2438	2	0	1	20	13234	4	0	2	108	13929	4	0	2	114	14116	4	0	2	116
				CL	2382	1	0	1	20	12929	2	0	2	106	13609	2	0	2	112	13791	2	0	3	113
				CR	2382	1	0	1	20	12929	2	0	2	106	13609	2	0	2	112	13791	2	0	3	113
			HDL Lens	3	2007	1	0	1	16	10953	3	0	2	90	11529	3	0	2	94	11683	3	0	2	96
				5W	2073	1	0	1	17	11053	3	0	1	91	11634	3	0	2	95	11790	3	0	2	97

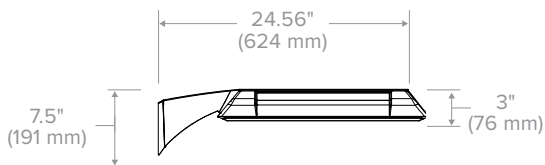
ALT1

ARCHITECTURAL AREA/SITE

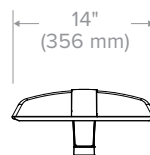
DELIVERED LUMENS (CONTINUED)

LEDs #	NW (Nominal Watts)	NL (Nominal Lumens)	LO (Lens Options)	Dist. (Distribution)	Amber					3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G			B	U	G	
54L	155	17,500	No Lens	FR	Configuration Not Available					17299	2	0	2	111	18208	2	0	2	117	18452	2	0	2	119
				FR-BC						11513	1	0	1	74	12118	1	0	1	78	12280	1	0	1	79
				2						16445	2	0	2	105	17310	2	0	3	111	17542	2	0	3	112
				2-BC						8791	0	0	2	56	9253	0	0	2	59	9377	0	0	2	60
				3						16467	2	0	3	106	17333	2	0	3	111	17565	2	0	3	113
				3-BC						9202	1	0	2	59	9686	1	0	2	62	9816	1	0	2	63
				4						16593	1	0	3	106	17465	1	0	3	112	17699	1	0	4	113
				4-BC						10696	0	0	2	69	11258	1	0	2	72	11409	1	0	2	73
				4W						16435	2	0	4	105	17299	2	0	4	111	17531	2	0	4	112
				4W-BC						8220	1	0	2	53	8652	1	0	2	55	8768	1	0	2	56
				5R						17051	4	0	4	109	17947	4	0	4	115	18188	4	0	4	117
				5QM						17267	4	0	2	111	18174	4	0	2	117	18418	4	0	2	118
				5QN						17309	4	0	1	111	18219	4	0	1	117	18463	4	0	1	118
				5W						17009	4	0	2	109	17903	4	0	2	115	18143	4	0	2	116
				CL						16618	2	0	3	107	17491	2	0	3	112	17726	3	0	3	114
				CR						16618	2	0	3	107	17491	2	0	3	112	17726	3	0	3	114
			Clear Lens	FR						16180	1	0	2	104	17030	1	0	2	109	17258	1	0	2	111
				2						15382	2	0	2	99	16190	2	0	2	104	16407	2	0	2	105
				3						15402	2	0	3	99	16212	2	0	3	104	16429	2	0	3	105
				4						15520	1	0	3	99	16336	1	0	3	105	16555	1	0	3	106
				4W						15372	2	0	4	99	16180	2	0	4	104	16397	2	0	4	105
				5R						15948	4	0	4	102	16787	4	0	4	108	17011	4	0	4	109
				5QM						16150	4	0	2	104	16999	4	0	2	109	17227	4	0	2	110
				5QN						16190	4	0	1	104	17041	4	0	1	109	17269	4	0	1	111
				5W						15909	4	0	2	102	16745	4	0	2	107	16969	4	0	2	109
				CL						15543	2	0	3	100	16360	2	0	3	105	16579	2	0	3	106
				CR						15543	2	0	3	100	16360	2	0	3	105	16579	3	0	3	106
			HDL Lens	3						13167	3	0	2	84	13860	3	0	2	89	14045	3	0	2	90
				5W						13288	3	0	2	85	13986	3	0	2	90	14174	3	0	2	91

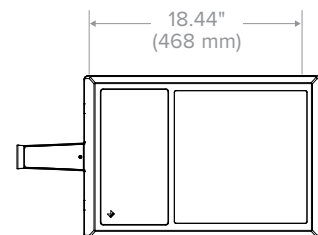
DIMENSIONS



Side View



Front View



Top View

ALT1

ARCHITECTURAL AREA/SITE

PHOTOMETRY¹

ALT1-54L-155-4K7-FR

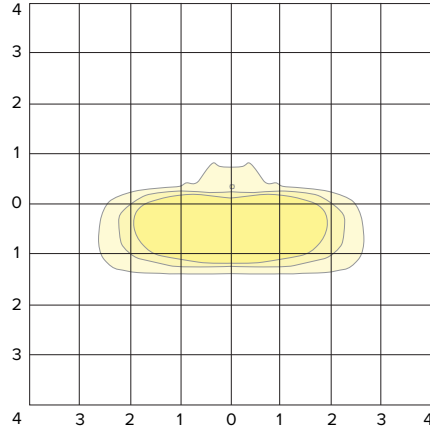
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	18208
Watts	156
Efficacy	116.7
IES Type	I
BUG Rating	B2-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	16101	88.4%
Downward House Side	2107	11.6%
Downward Total	18208	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	18208	100%

ISOFOOTCANDLE PLOT



ALT1-54L-155-4K7-2

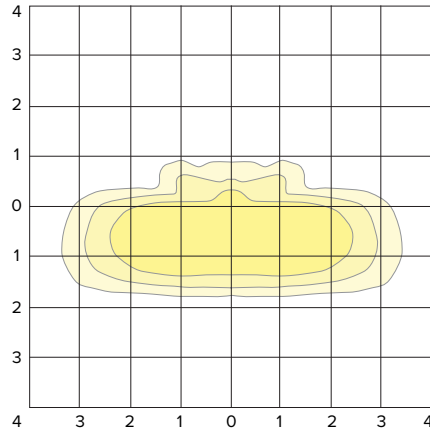
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17309
Watts	156
Efficacy	111.0
IES Type	II
BUG Rating	B2-U0-G3
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	14323	82.7%
Downward House Side	2986	17.3%
Downward Total	17309	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17309	100%

ISOFOOTCANDLE PLOT



ALT1-54L-155-4K7-3

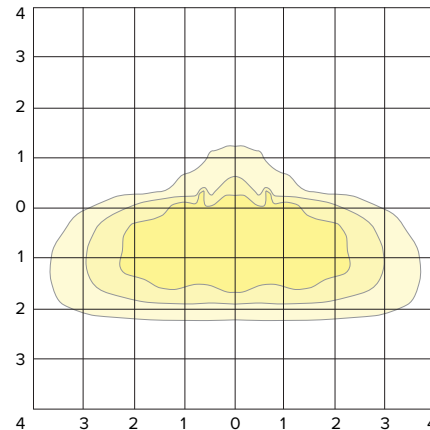
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17332
Watts	156
Efficacy	111.1
IES Type	III
BUG Rating	B2-U0-G3
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	14911	86.0%
Downward House Side	2421	14.0%
Downward Total	17332	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17332	100%

ISOFOOTCANDLE PLOT



¹ All Isofootcandle plots are similar for all CCT/CRI including Amber.

ALT1

ARCHITECTURAL AREA/SITE

PHOTOMETRY¹

ALT1-54L-155-4K7-4

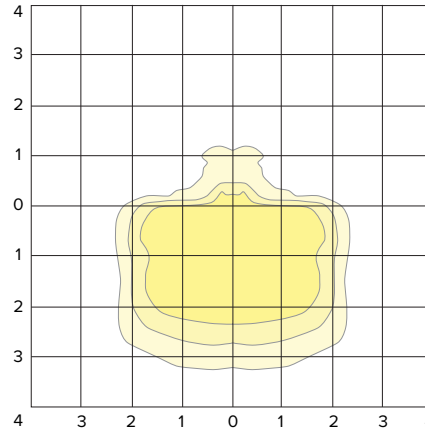
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17465
Watts	156
Efficacy	112.0
IES Type	IV
BUG Rating	B1-U0-G3
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	15757	90.2%
Downward House Side	1708	9.8%
Downward Total	17465	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17465	100%

ISOFOOTCANDLE PLOT



ALT1-54L-155-4K7-4W

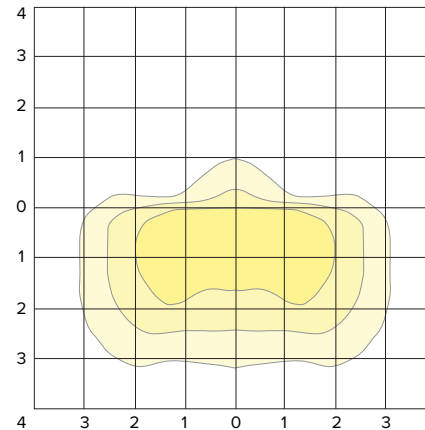
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17299
Watts	156
Efficacy	110.9
IES Type	IV
BUG Rating	B2-U0-G4
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	15320	88.6%
Downward House Side	1979	11.4%
Downward Total	17299	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17299	100%

ISOFOOTCANDLE PLOT



ALT1-54L-155-4K7-5R

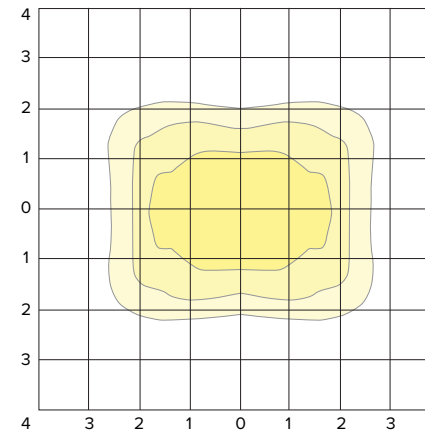
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17947
Watts	156
Efficacy	115.0
IES Type	III
BUG Rating	B4-U0-G4
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	8974	50.0%
Downward House Side	8974	50.0%
Downward Total	17947	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17947	100%

ISOFOOTCANDLE PLOT



¹ All Isofootcandle plots are similar for all CCT/CRI including Amber.

ALT1

ARCHITECTURAL AREA/SITE

PHOTOMETRY¹

ALT1-54L-155-4K7-5QM

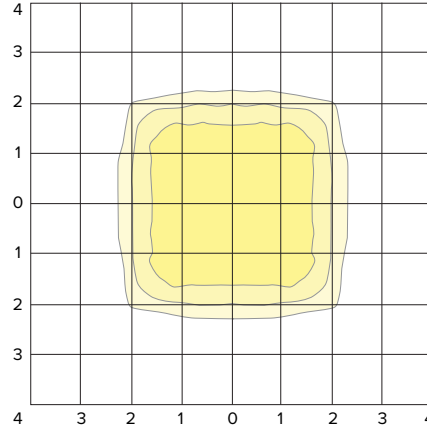
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	18173
Watts	156
Efficacy	116.5
IES Type	V
BUG Rating	B4-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	9087	50.0%
Downward House Side	9087	50.0%
Downward Total	18173	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	18173	100%

ISOFOOTCANDLE PLOT



ALT1-54L-155-4K7-5QN

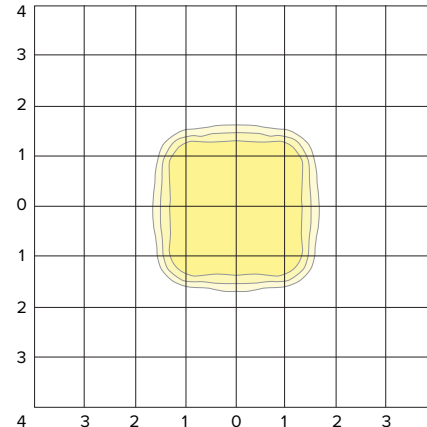
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	18219
Watts	156
Efficacy	116.8
IES Type	V
BUG Rating	B4-U0-G1
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	9110	50.0%
Downward House Side	9110	50.0%
Downward Total	18219	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	18219	100%

ISOFOOTCANDLE PLOT



ALT1-54L-155-4K7-5W

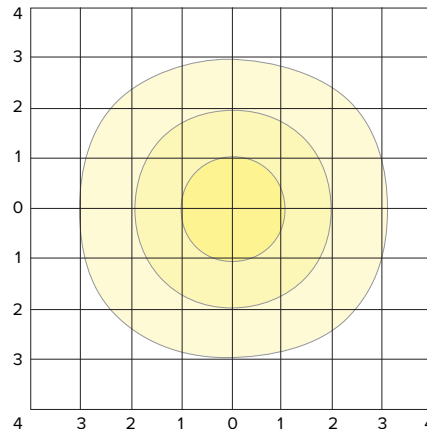
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17904
Watts	156
Efficacy	114.8
IES Type	V
BUG Rating	B4-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	8952	50.0%
Downward House Side	8952	50.0%
Downward Total	17904	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17904	100%

ISOFOOTCANDLE PLOT



¹ All Isofootcandle plots are similar for all CCT/CRI including Amber.

PHOTOMETRY¹

ALT1-54L-155-4K7-CL

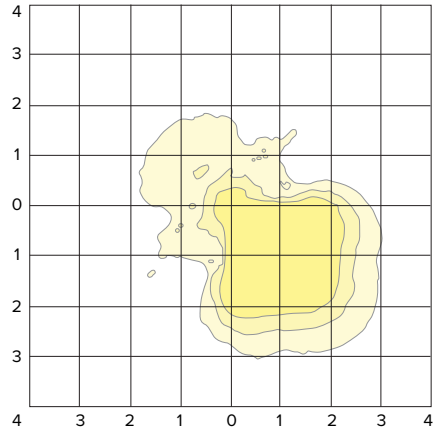
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17491
Watts	155
Efficacy	112.8
IES Type	CL
BUG Rating	B3-U0-G3
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	14524	83.0%
Downward House Side	2968	17.0%
Downward Total	17491	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17491	100%

ISOFOOTCANDLE PLOT



ALT1-54L-155-4K7-CR

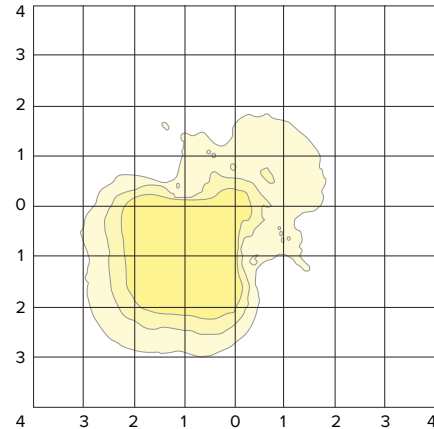
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17485
Watts	155
Efficacy	112.8
IES Type	CR
BUG Rating	B2-U0-G3
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	14312	81.9%
Downward House Side	3174	18.2%
Downward Total	17485	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17485	100%

ISOFOOTCANDLE PLOT



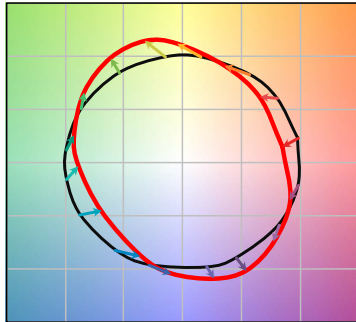
¹ All Isofootcandle plots are similar for all CCT/CRI including Amber.

ALT1

ARCHITECTURAL AREA/SITE

TM-30 DATA

COLOR VECTOR GRAPHIC



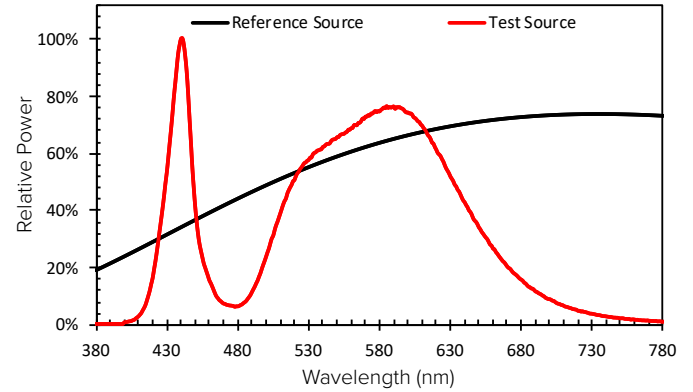
— Reference Illuminant — Test Source

TM-30 Data is calculated for white LEDs

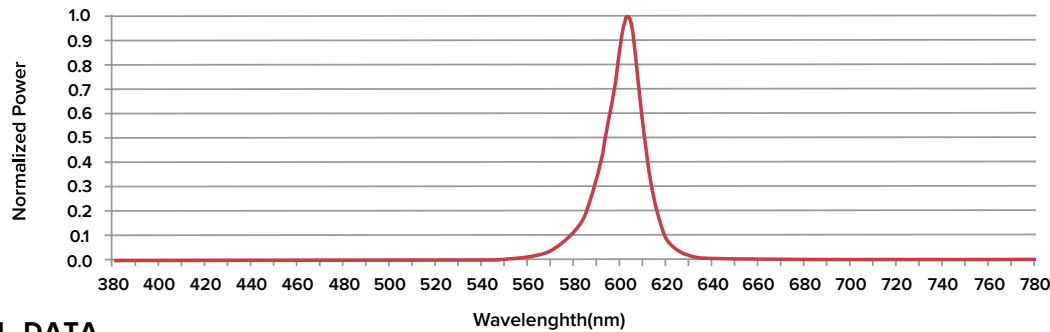
TEST SOURCE

R _f	68
R _a	99
CCT(K)	3947
D _{uv}	0.0004
x	0.3831
y	0.3793
CIE R _a	72

SPECTRAL POWER DISTRIBUTION COMPARISON



Amber Spectral Power Distribution



ELECTRICAL DATA

Electrical												Dimming					
# LED	System Watts	Drive Current	Line Voltage		Amps AC						Min. Power Factor	Max THD (%)	Dimming Range	Source current out of 0-10V		Absolute voltage range on 0-10V (+)	
			VAC	Hz	120	208	240	277	347	480				Min	Max	Min	Max
28	22	250 mA	120-480	50/60	0.18	0.11	0.09	0.08	0.06	0.05	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	38	400 mA			0.32	0.18	0.16	0.14	0.11	0.08							
	60	650 mA			0.50	0.29	0.25	0.22	0.17	0.13							
	86	950 mA			0.72	0.41	0.36	0.31	0.25	0.18							
54	94	550 mA			0.78	0.45	0.39	0.34	0.27	0.20							
	122	700 mA			1	0.59	0.51	0.44	0.35	0.25							
	156	900 mA			1.30	0.75	0.65	0.56	0.45	0.33							

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C)						
Hours	0	25,000	36,000	50,000	100,000	Reported L70
Projected Lumen Maintenance	100%	96.9%	95.3%	93.3%	86.6%	> 60,000

TM-21 Data is calculated for white LEDs. For Amber and other Lumen Maintenance values, contact factory.

Lumen Multiplier for 80 and 90 CRI		
CCT	80 CRI	90 CRI
2700K	0.859	0.655
3000K	0.9119	0.7033
3500K	0.906	0.732
4000K	0.8941	0.734
5000K	0.879	0.7712

Scaling factor of 5000K 70CRI lumen packages

VIBRATION RATINGS

ALT 1		ALT 2		ALT 3	
Ordering Code	Rating	Ordering Code	Rating	Ordering Code	Rating
WM	1.5G	WM	1.5G	WM	1.5G
VSF	1.5G	VSF	1.5G	VSF	1.5G
SVSF	1.5G	SVSF	1.5G	SVSF	1.5G
A34	4G	A34	1.5G	A34	1.5