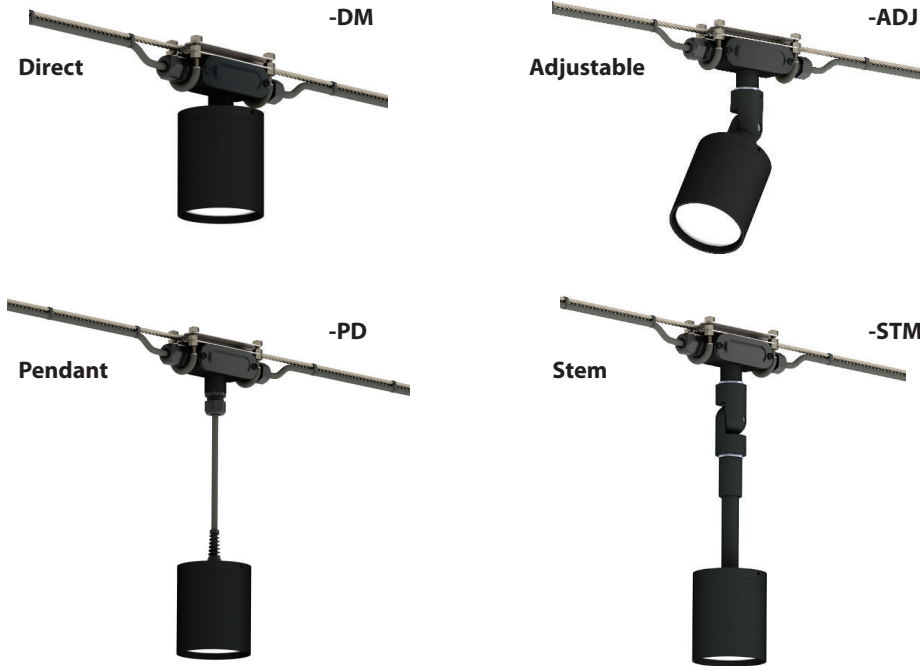


DLCT : CATENARY

CATENARY MOUNT (IP65) 1000LM/2600LM (10W/30W)



- Energy efficient, low glare LED Chip-On-Board light engine
- Beam spreads include NS, SP, FL, WFL and 2° Pencil Beam
- Wall Wash Optics available
- Emergency back up available
- Integral power supply
- 5-Year Limited Warranty

ORDERING : DLCTQ340-PD-B-L15-B02UE-D10-EMB-T27-LVR

DLCT										
Fixture			Fixture Finish	Lumen	Optics	Dimming	Emergency Options	LED	Options	Mount
Fixture				Lumen		Dimming			Options	
4" Round			DLCT340	1000lm (10W)	Blank	Non-Dimming (120V)	Blank		None	Blank
4" Square			DLCTQ340	1500lm (15W)	-L15	ELV and Triac (120V)	-DIN		Frosted Lens	-FR
6" Round			DLCT360	2200lm (22W)	-L20 ¹	0-10V (120V/277V)	UE-D10		Hex-Cell Louver	-LVR
				2600lm (30W)	-L26 ¹	UniDim™ (120V/277V)	UE-DUN ³		Cold Weather	-CW ³
Fixture Finish						1-10V 1% Dimming (120V/277V)	UE-D10P1		Glare Shield	-SH
White	(RAL 9003)	W	Optics			347V 0-10V Dimming	347-D10 ^{1,7}		Cable Cross Brace	-CXB
Black	(RAL 9005)	B	Standard Beams						Mount	
Basic Bronze	(RAL 8019)	BZ	Wide Flood	Blank		Emergency Options			Direct Mount	-DM ⁵
Silver	(RAL 7037)	S	Narrow Spot	-B10		None	Blank		Adjustable	-ADJ ⁵
Light Silver	(RAL 7015)	LS ²	Spot	-B20		Wall Mount	-EMB ⁶		Pendant	-PD ⁵
Dark Grey	(RAL 7036)	DG ²	Flood	-B45		Emergency System			Stem 6"	-STM06 ⁵
Metallic Gold	(RAL 1001)	MG ²				LED			Stem 12"	-STM12 ⁵
Metallic Black	(RAL 7021)	MB ²	Specialty Beams			4000K (90 CRI)	-T40		Stem 18"	-STM18 ⁵
			Asymmetric (30° x 60°)	-B3060		2700K (90 CRI)	-T27		Stem 24"	-STM24 ⁵
			Variable Beam (20° - 50°)	-BVR		2700K (97 CRI)	-T27-C97 ²		Stem 36"	-STM36 ⁵
						3000K (90 CRI)	-T30			
						3000K (97 CRI)	-T30-C97 ²			
						3500K (90 CRI)	-T35			
						5000K (80 CRI)	-T50			
						RGB+W Control (24VDC)	-RGBWV24 ⁴			

¹ For DLCT360 only.

² Special Order. Minimum order, extended lead time may apply. Consult factory. (Finish options 50 piece minimum. 10-12 week lead time).

³ Starting temperature -30°C/-22°F; see p. 7.

⁴ Available with wireless bluetooth or DMX control. Consult factory for details. Remote power supplies and control gear may be required.

⁵ Standard color is black unless the fixture is ordered white, in which case it will be white.

⁶ Basic bronze (BZ) standard finish. Black (B), and Silver (S) finish available. Contact factory for pricing.

⁷ Not compatible with 1000lm. 347V Input with 0-10V Dimming available only with 1500lm and above. Consult factory for lead times.

¹ For DLCT360 only.

² Special Order. Minimum order, extended lead time may apply. Consult factory. (Finish options 50 piece minimum. 10-12 week lead time).

³ Starting temperature -30°C/-22°F; see p. 7.

⁴ Available with wireless bluetooth or DMX control. Consult factory for details. Remote power supplies and control gear may be required.

⁵ Standard color is black unless the fixture is ordered white, in which case it will be white.

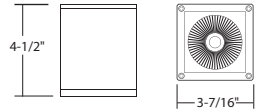
⁶ Basic bronze (BZ) standard finish. Black (B), and Silver (S) finish available. Contact factory for pricing.

⁷ Not compatible with 1000lm. 347V Input with 0-10V Dimming available only with 1500lm and above. Consult factory for lead times.

SPECIFICATION

Available Luminaires

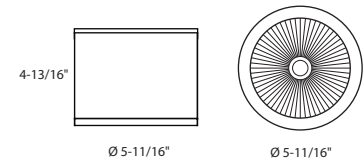
DLCTQ340
4" square



DLCT340
4" round



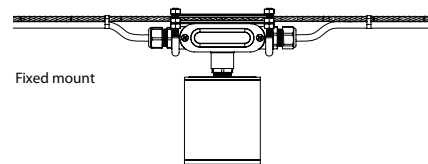
DLCT360
6" round



Mounting styles

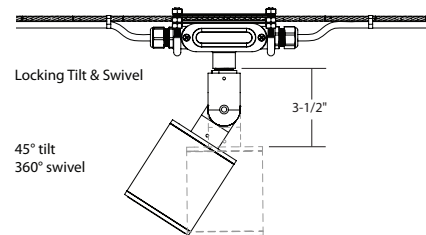
Direct

-DM



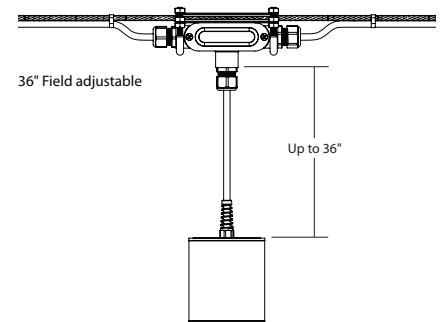
Adjustable

-ADJ

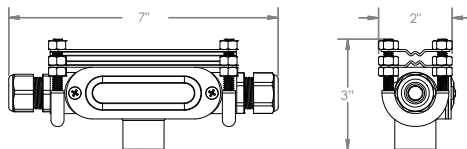


Pendant

-PD

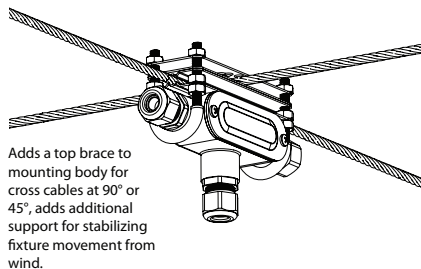


Catenary Mounting Body



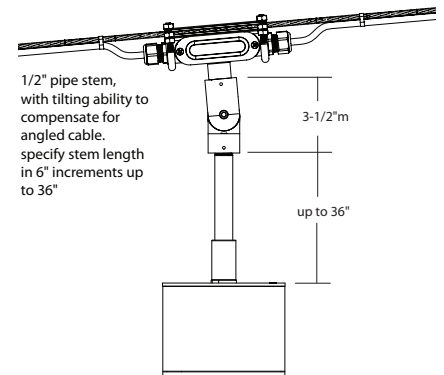
Cable Cross Brace

-CXB



Stem

-STM

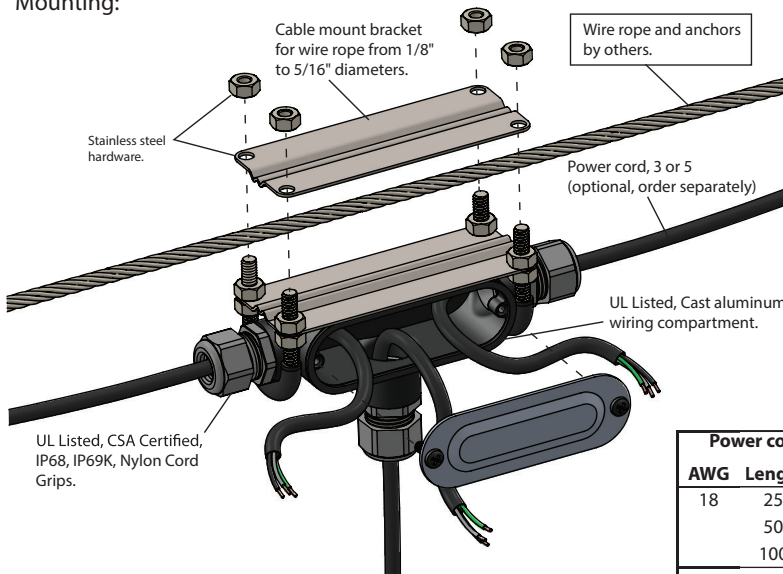


Catenary Design

Due to the nature of catenary lighting, Catenary cables and their associated fittings, attachment, anchors along with masts, poles, or other structural elements, are provided by others. The safe design of these products requires an analysis of many factors that are unique to your building, site and project goals and should be done by a licensed structural engineer. LITON does not provide structural engineering services nor do we sell the main catenary cable or fittings. LITON's Catenary Mounting System is designed to allow the installation of certain LITON luminaires and their required wiring on a catenary cable. We can help determine what components to order from LITON as well as what details to provide to your structural engineer. Some architecture rms like Ronstan International specialize in Catenary design: arch@ronstan.us

SPECIFICATION (Continued)

Mounting:



Luminaires mount to a catenary mounting body constructed of cast aluminum. The catenary body is a U.L. listed wire way with an IP65 rating which uses stainless steel hardware to mount to wire rope by others.

3 or 5 conductor SJTW power cord is available to order separately in 18 or 14AWG. Determine overall run length required and add 10% to that length. Use approximately 1 cable tie per foot.

3 Conductor Power cord

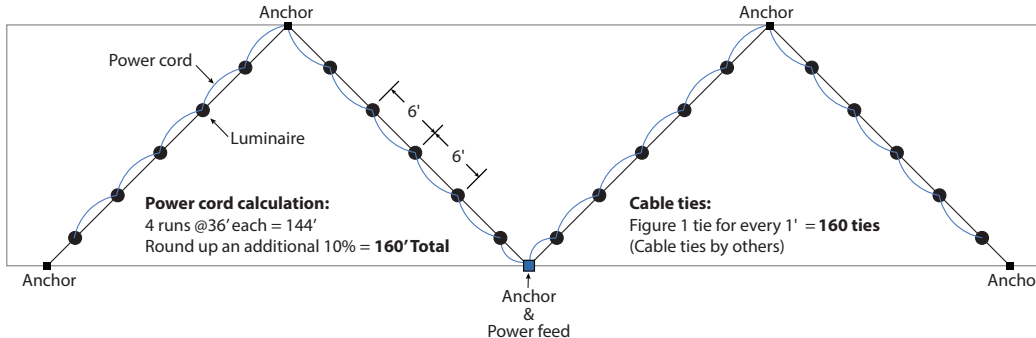
18 AWG **CATB318C +** Enter feet
14 AWG **CATB314C +**

For 0-10V dimming order: 5 Conductor Power cord

18 AWG **CATB518C +** Enter feet
14 AWG **CATB514C +**

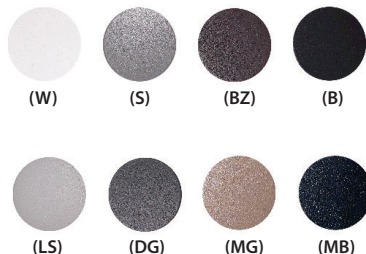
Power cord capacity		
AWG	Length	Max. AMP
18	25'	10
	50'	7
	100'	6
14	25'	15
	50'	12
	100'	10

Example Layout:



One possible layout shown for calculation purposes. Consult with structural engineer for load requirements.

Finish:



A 7-stage electrostatic, polymer process provides an outdoor textured powder coat finish that delivers outstanding durability, superior anti-aging, resistance to corrosion and UV-degradation. Consult factory for Custom Color.

Standard Finishes:

White: RAL 9003 (W)
Silver: RAL 7037 (S)
Basic Bronze: RAL 8019 (BZ)
Black: RAL 9005 (B)

Special Order Finishes:

Light Silver: RAL 7036 (LS)
Dark Gray: RAL 7015 (DG)
Metallic Gold: RAL 1001 (MG)
Metallic Black: RAL 7021 (MB)

Certifications and Listings:



ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations. (IP65)

Assembled in USA.

IK08 rated for impact resistance.

SPECIFICATION (Continued)

Caution:

LITON recommends use of surge protectors on the power entering LED Housings.
Surge damage is not covered by warranty. (See option SRG)

Warranty

Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture should not be installed in applications with ambient temperature above 50°C/122°F. Doing so will result in reduced lamp life and voided warranty.

Housing

Luminaire housing is constructed from a one piece high grade aluminum extrusion. (Alloy 6061 <04% Cu). Faceplate (with a tempered glass lens) and top cap are of a robust die-cast aluminum alloy and are secured to the housing with (4)socket head tamper resistant stainless steel screws and seal the housing (top and bottom) using silicone gaskets.

Optics

Multifaceted aluminum reflectors produce low glare illumination with multiple light control options.

Standard Beam:

Used for maximum light output and visible field angle.

LED

COB (Chip on Board) singular LED light source provides for smooth, uniform light output, eliminating the imaging produced by multiple LED source optics.

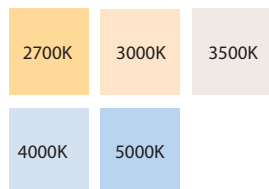
Lumen Maintenance:

Lumen Maintenance is a minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Lumen Options (Nominal):

1000lm (10W) (Blank)
1500lm (15W) (-L15)
2200lm (22W) (-L20)
2600lm (30W) (-L26)

Color Temperature:



Binned with 4-step MacAdam ellipses as per ANSI Standard recommendation.

COLOR TEMP:	2700K	3000K	3500K	4000K	5000K
CRI:	90, 97	90, 97	90	90	90

RGB+W:



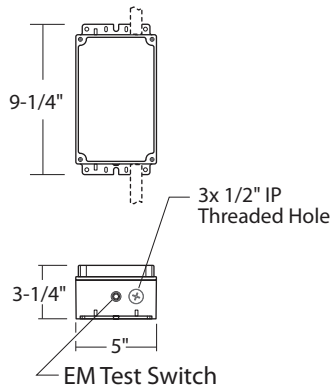
15W RGBW LED module illuminates surfaces up to 10 feet away. Used for applications desiring a dynamic color changing effect. RGBW design allows for ne-tuned pastel colors and saturated hues using a Casambi wireless interface for complete scene control and the ability to control fixtures separately or in groups.

EMERGENCY BATTERY BACKUP

Wall or Pole Mount (-EMB-SD/FC):

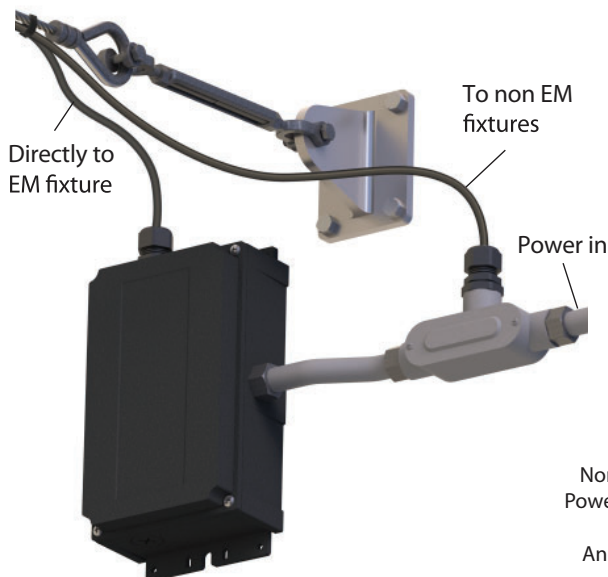
Eliminates need for long runs back to remote emergency battery location. Installs directly on building surface. Ideal for locations wanting same mounting aesthetics for Emergency and Non-Emergency fixtures. Can be fed from recessed wall mounted junction box from the back side or surface conduit from the side of box.

- Wet location rated.
- 120V-347V operation.
- Self diagnostic.
- Integral surge protector for emergency driver only.
- Includes (2) 1/2" NPT knock-outs.
- Optional -EMB-BLANK can be used to maintain a common aesthetic when -EMB-FC are used.

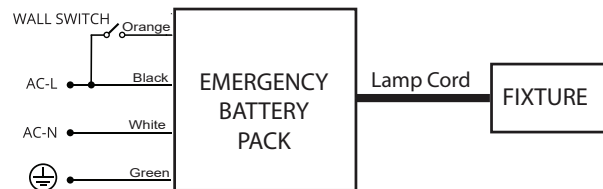


Output Power:	18 Watts (Max)
Input Power:	7 Watts (Max)
Emergency Operation:	≥90 minutes
Operating temp:	0°C/32°F to 50°C/122°F
Input Voltage:	120V-347 VAC
Battery:	Recyclable lithium battery 24 Hour Recharge 7-10 Year Life Expectancy
Charge Time:	24 hours
Max Distance:	25'
Weight:	3-3/4 lbs.
Warranty:	5-year
Surge Protection:	Integral 3,000V
Self-diagnostic testing:	Monthly 30 sec. test, Yearly 90 min. test to verify proper emergency operation per life safety code requirements.

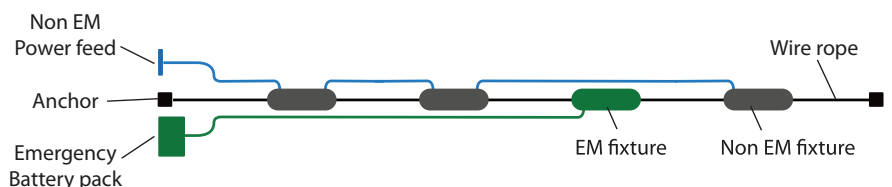
Run EM power cord along side non EM power cord and bypass non EM fixtures.



(18W-40W)



Example of possible layout with EM fixture



SPECIFICATION (Continued)

Electrical

LED Driver: AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted.

Power Factor > 0.90. See Dimming Section for voltage and wiring.

Minimum Operating Temperature:

Standard: -10°C/14°F

Cold Weather Option: (-CW) -30°C/-22°F

Dimming Options

ELV and TRIAC Driver 120V (-DIN):

Compatible with electronic low voltage, and 2-Wire incandescent dimmers. Also known as leading edge, Reverse Phase, Forward Phase dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations.

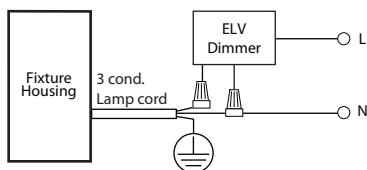
0-10V Driver 120V/277V (UE-D10):

Compatible with most existing 0-10V systems. Also known as fluorescent or 5-Wire dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations. Compatible with daylight harvesting controls.

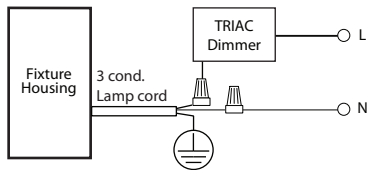
UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

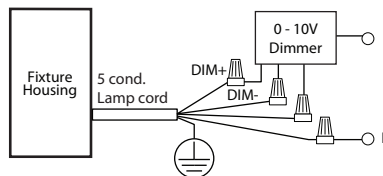
Incandescent/Phase Wiring
ELV



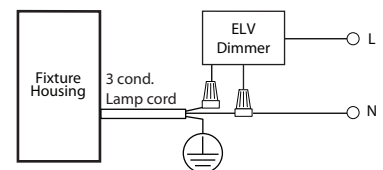
TRIAC



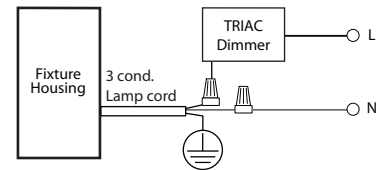
0 - 10V Wiring



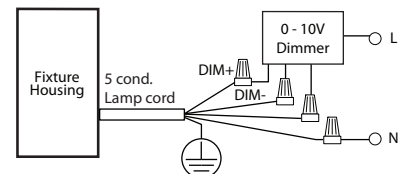
Incandescent/Phase Wiring
ELV



TRIAC



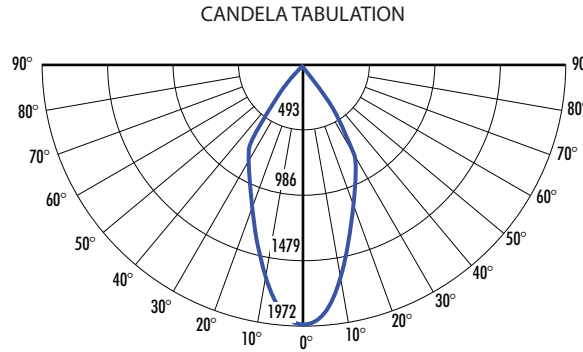
0 - 10V Wiring



PHOTOMETRY

DLCT340BZ-L15UE-DUN (1500lm, 15W, Wide Flood, 4000K)

System Power:	15W	MULTIPLIERS	
Test Date:	12/2023	CCT	
Beam Angle 50%:	47.0°	2700K	0.88
Field Angle 10%:	77.7°	3000K	0.92
Color Temperature:	4139K	3500K	1.00
CRI:	93.4	4000K	1.00
Lumens Delivered:	1367	5000K	1.00
CBCP:	1972.2	LUMENS	
Power Factor:	0.93	1000lm (Blank)	0.72
Input Voltage:	120V	1500lm (L15)	1.00

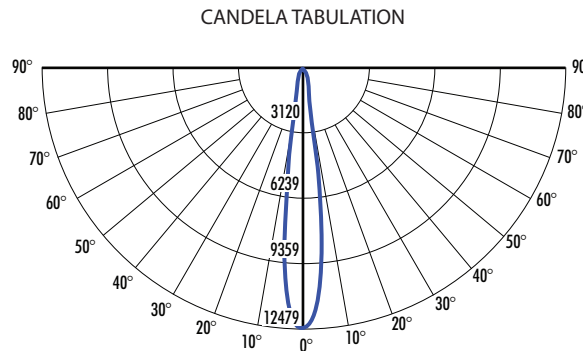


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	13.91'	7.70
14.0'	12.17'	10.06
12.0'	10.43'	13.70
10.0'	8.70'	19.72
8.0'	6.96'	30.82
6.0'	5.22'	54.78

DLCT340BZ-L15-B10UE-DUN (1500lm, 15W, Narrow Spot, 4000K)

System Power:	15W	MULTIPLIERS	
Test Date:	12/2023	CCT	
Beam Angle 50%:	14.5°	2700K	0.88
Field Angle 10%:	29.3°	3000K	0.92
Color Temperature:	4138K	3500K	1.00
CRI:	93.4	4000K	1.00
Lumens Delivered:	1558	5000K	1.00
CBCP:	12478.6	LUMENS	
Power Factor:	0.93	1000lm (Blank)	0.73
Input Voltage:	120V	1500lm (L15)	1.00

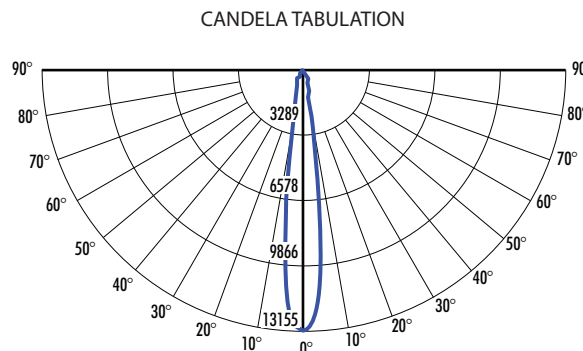


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	4.07'	48.74
14.0'	3.56'	63.67
12.0'	3.05'	86.66
10.0'	2.54'	124.79
8.0'	2.04'	194.98
6.0'	1.53'	346.63

DLCT340BZ-L15-B20UE-DUN (1500lm, 15W, Spot, 4000K)

System Power:	15W	MULTIPLIERS	
Test Date:	12/2023	CCT	
Beam Angle 50%:	14.7°	2700K	0.88
Field Angle 10%:	27.5°	3000K	0.92
Color Temperature:	4150K	3500K	1.00
CRI:	92.6	4000K	1.00
Lumens Delivered:	1544	5000K	1.00
CBCP:	13155.12	LUMENS	
Power Factor:	0.93	1000lm (Blank)	0.74
Input Voltage:	120V	1500lm (L15)	1.00

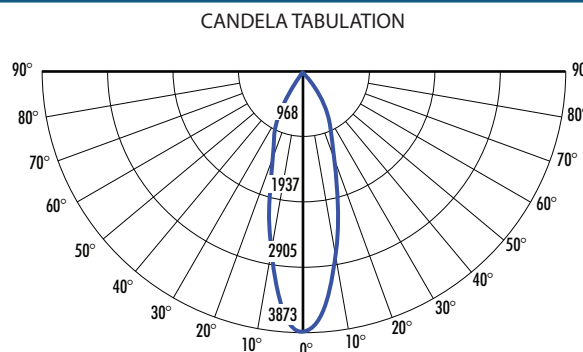


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	4.13'	51.39
14.0'	3.61'	67.12
12.0'	3.10'	91.36
10.0'	2.58'	131.55
8.0'	2.06'	205.55
6.0'	1.55'	365.42

DLCT340BZ-L15-B45UE-DUN (1500lm, 15W, Flood, 4000K)

System Power:	15W	MULTIPLIERS	
Test Date:	12/2023	CCT	
Beam Angle 50%:	30.4°	2700K	0.88
Field Angle 10%:	68.8°	3000K	0.92
Color Temperature:	4151K	3500K	1.00
CRI:	93.5	4000K	1.00
Lumens Delivered:	1556	5000K	1.00
CBCP:	3873.22	LUMENS	
Power Factor:	0.92	1000lm (Blank)	0.72
Input Voltage:	120V	1500lm (L15)	1.00



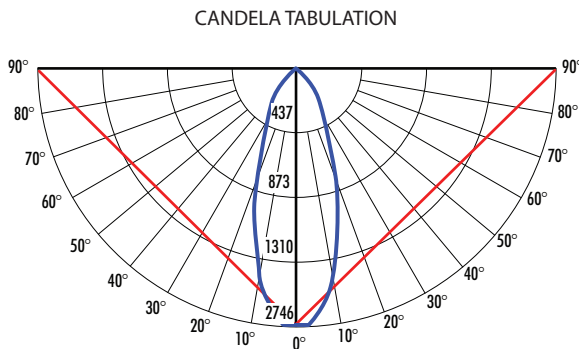
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	8.69'	15.13
14.0'	7.61'	19.76
12.0'	6.52'	26.90
10.0'	5.43'	38.73
8.0'	4.35'	60.52
6.0'	3.26'	107.59

PHOTOMETRY (Continued)

DLCT340BZ-L15-B3060UE-DUN (1500lm, 15W, 30°x60°, 4000K)

System Power:	15W	MULTIPLIERS	
Test Date:	12/2023	CCT	
Horizontal		2700K	0.88
Beam Angle 50%:	62.7°	3000K	0.92
Vertical		3500K	1.00
Beam Angle 50%:	36.7	4000K	1.00
Horizontal		5000K	1.00
Field Angle 10%:	106.6°	LUMENS	
Vertical		1000lm (Blank)	0.73
Field Angle 10%:	80.2	1500lm (L15)	1.00
Color Temperature:	4155K		
CRI:	93		
Lumens Delivered:	1534		
Lumens:	1540		
CBCP:	1746.30		
Power Factor:	0.92		
Input Voltage:	120V		



FOOTCANDLE DISTRIBUTION

Height	Beam Width	FC
	50° 40° 30° 20° 10° 0° 10° 20° 30° 40° 50°	
16.0'	19.49'	6.82
14.0'	17.06'	8.91
12.0'	14.62'	12.13
10.0'	12.18'	17.46
8.0'	9.75'	27.29
6.0'	7.31'	48.51