

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P510774

Luminaire Tested: **CTN-CA8-330-727-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510774  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA8-330-727-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44359 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

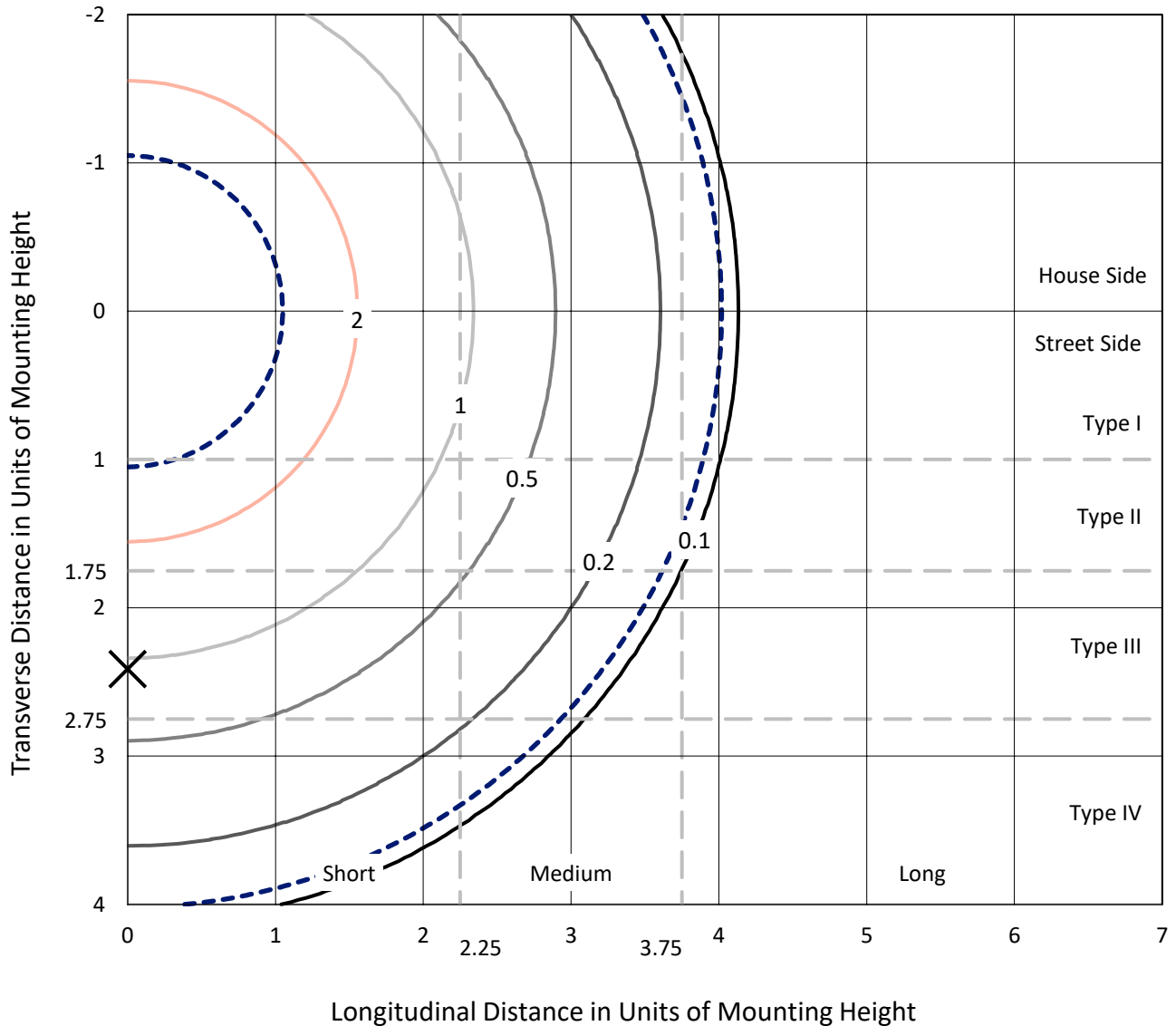
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

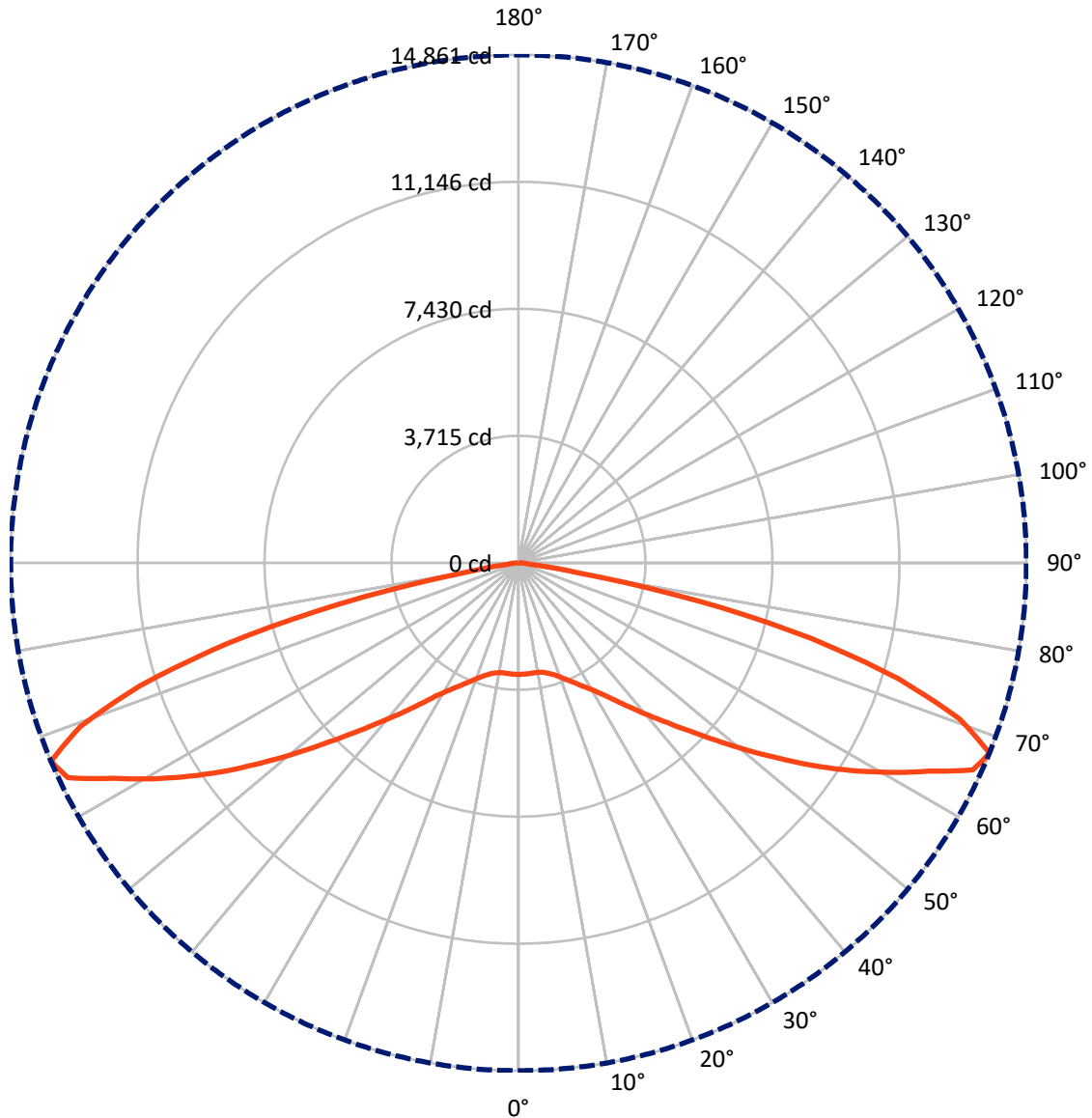
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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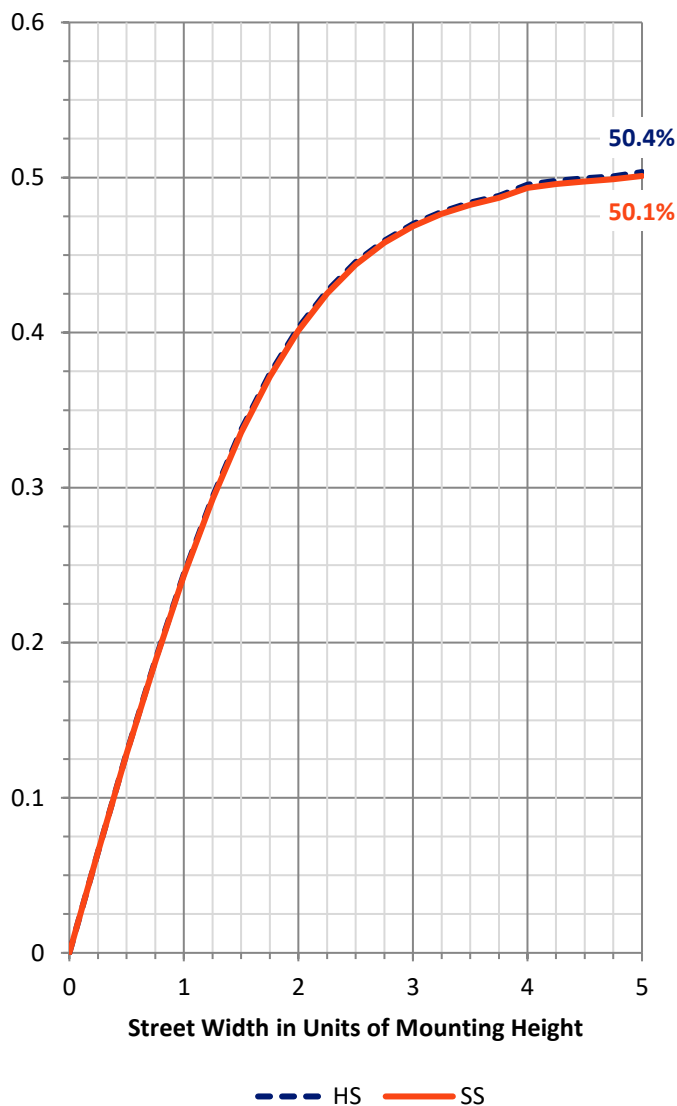
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22179.5	0.0	22179.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22179.5	0.0	22179.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44359.0	0.0	44359.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.8	0.7
10°-20°	963.2	2.2
20°-30°	1828.0	4.1
30°-40°	3175.0	7.2
40°-50°	5526.2	12.5
50°-60°	9441.0	21.3
60°-70°	13903.7	31.3
70°-80°	8838.3	19.9
80°-90°	372.8	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	44359.0	100.0
0°-180°	44359.0	100.0

**Coefficient of Utilization**

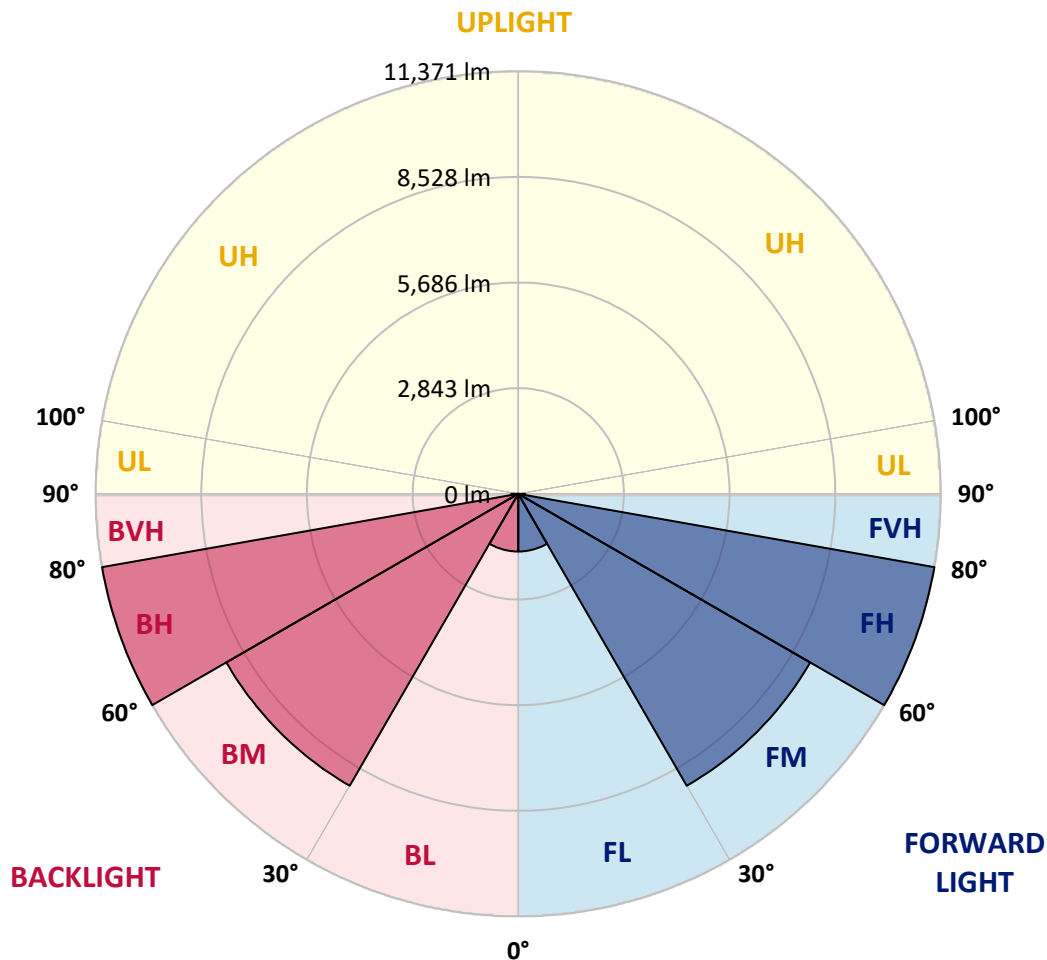


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1551.0	3.5			
FM (30°-60°)	9071.1	20.4			
FH (60°-80°)	11371.0	25.6			G4/12000
FVH (80°-90°)	186.4	0.4			G2/225
BL (0°-30°)	1551.0	3.5	B3/2500		
BM (30°-60°)	9071.1	20.4	B5		
BH (60°-80°)	11371.0	25.6	B5		G4/12000
BVH (80°-90°)	186.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3262.9
2.5°	3263.7
5°	3257.2
7.5°	3251.8
10°	3257.3
12.5°	3292.3
15°	3359.8
17.5°	3454.3
20°	3582.5
22.5°	3733.9
25°	3912.3
27.5°	4105.6
30°	4333.0
32.5°	4612.4
35°	4979.3
37.5°	5401.6
40°	5870.9
42.5°	6398.3
45°	7024.3
47.5°	7746.2
50°	8582.4
52.5°	9485.5
55°	10476.2
57.5°	11465.7
60°	12449.6
62.5°	13436.5
65°	14611.3
67.5°	14860.9
70°	13691.2
72.5°	11645.0
75°	8841.3
77.5°	5405.3
80°	1715.6
82.5°	291.2
85°	164.6
87.5°	59.6
90°	0.0

(END OF REPORT)