

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: P510414

Luminaire Tested: **CTN-CA10-210-727-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510414  
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-CA10-210-727-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31629 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

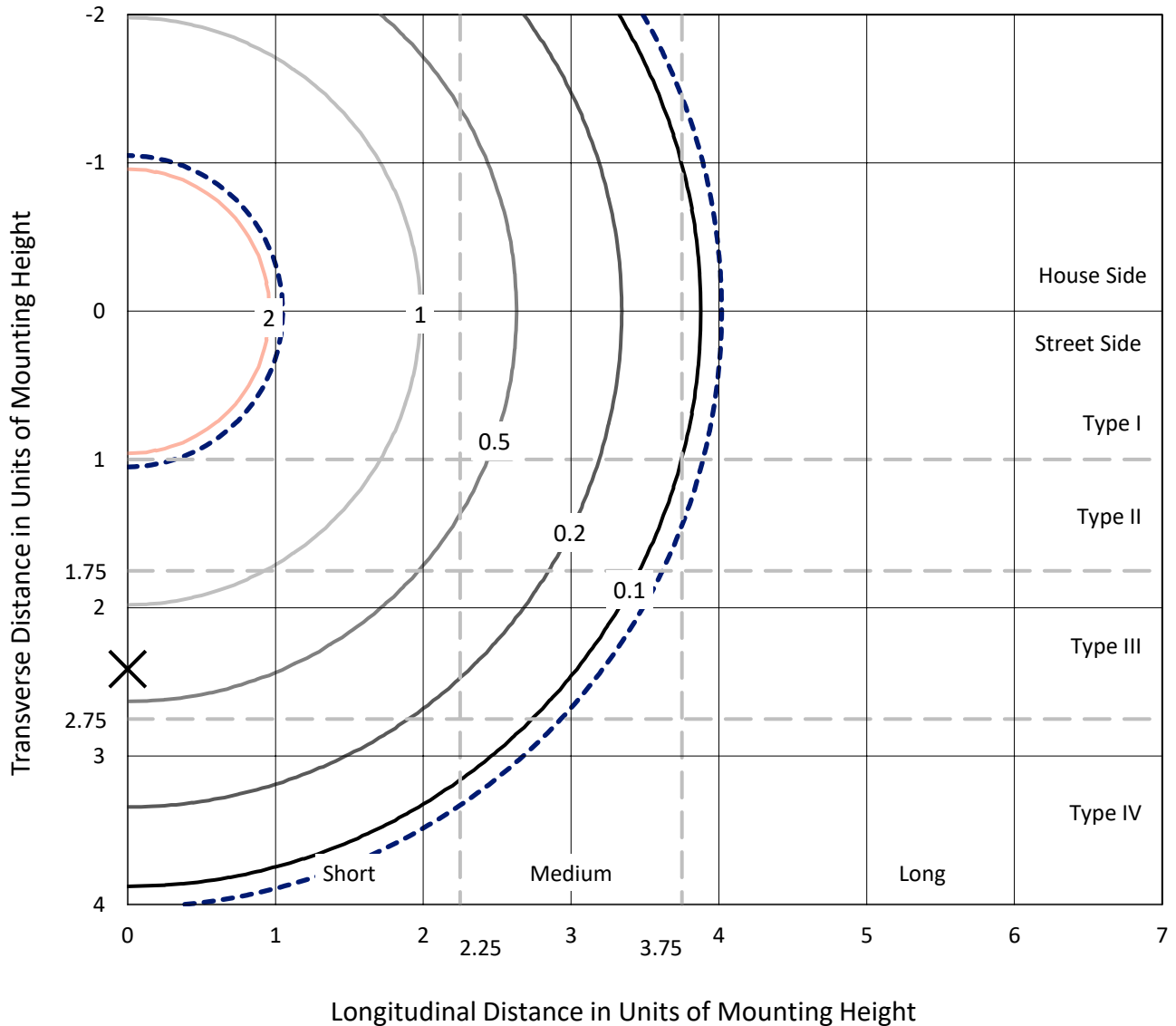
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

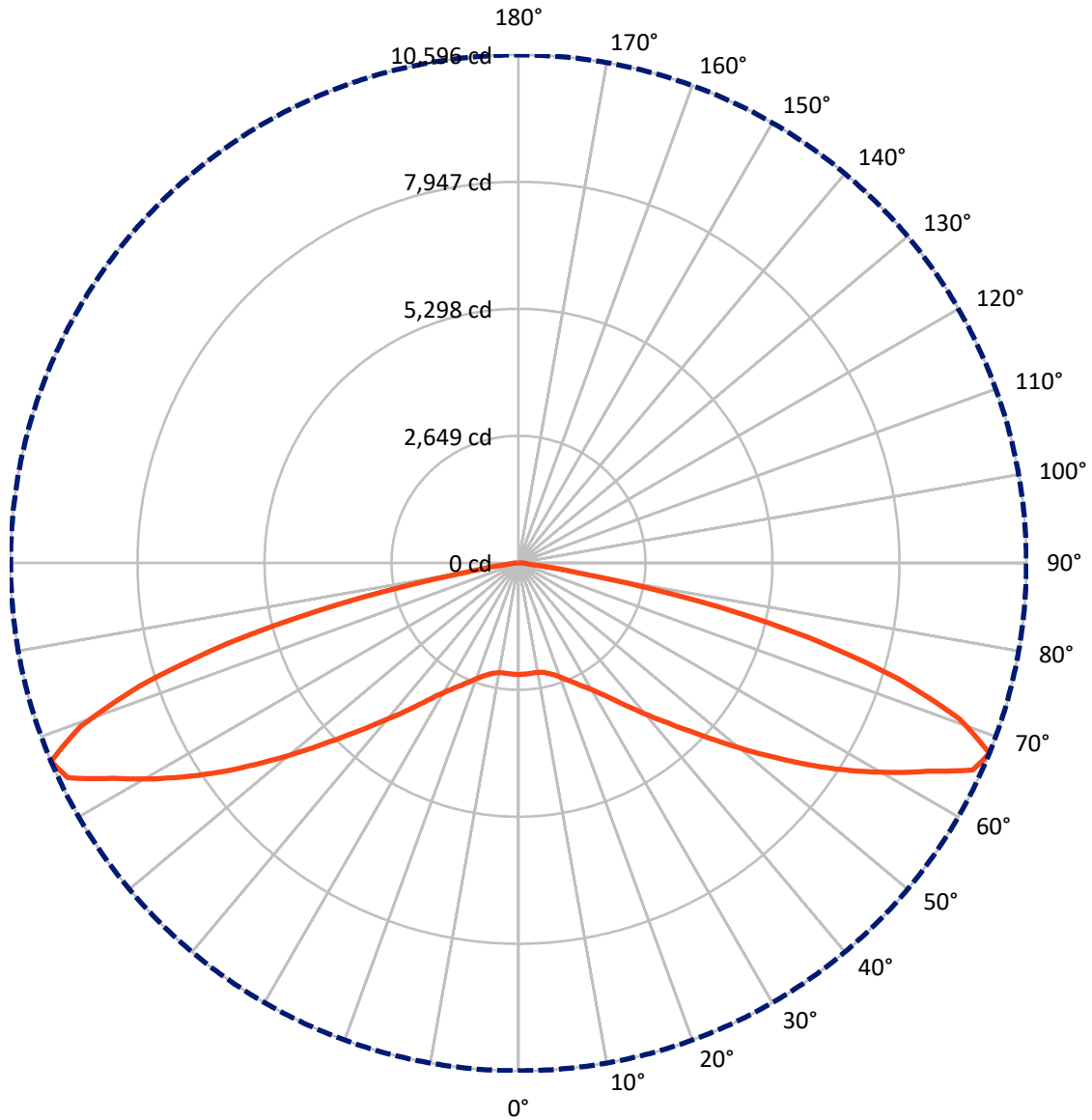
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.6 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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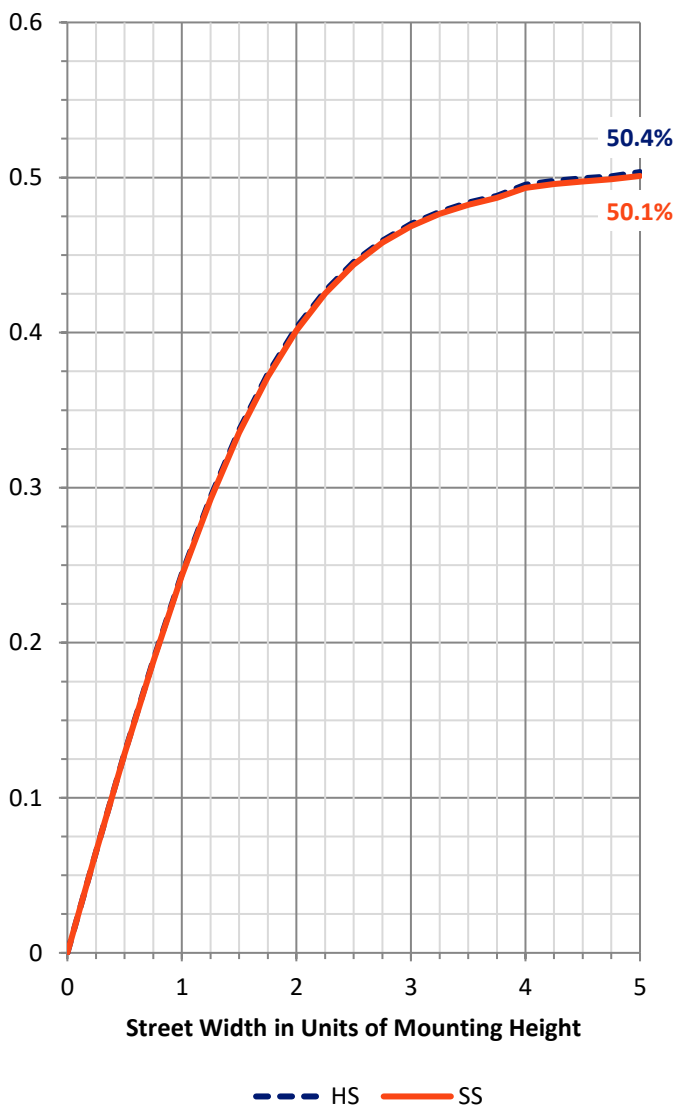
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15814.5	0.0	15814.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15814.5	0.0	15814.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31629.0	0.0	31629.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.6	0.7
10°-20°	686.8	2.2
20°-30°	1303.4	4.1
30°-40°	2263.8	7.2
40°-50°	3940.3	12.5
50°-60°	6731.6	21.3
60°-70°	9913.7	31.3
70°-80°	6301.9	19.9
80°-90°	265.8	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°	31629.0	100.0
0°-180°	31629.0	100.0

**Coefficient of Utilization**

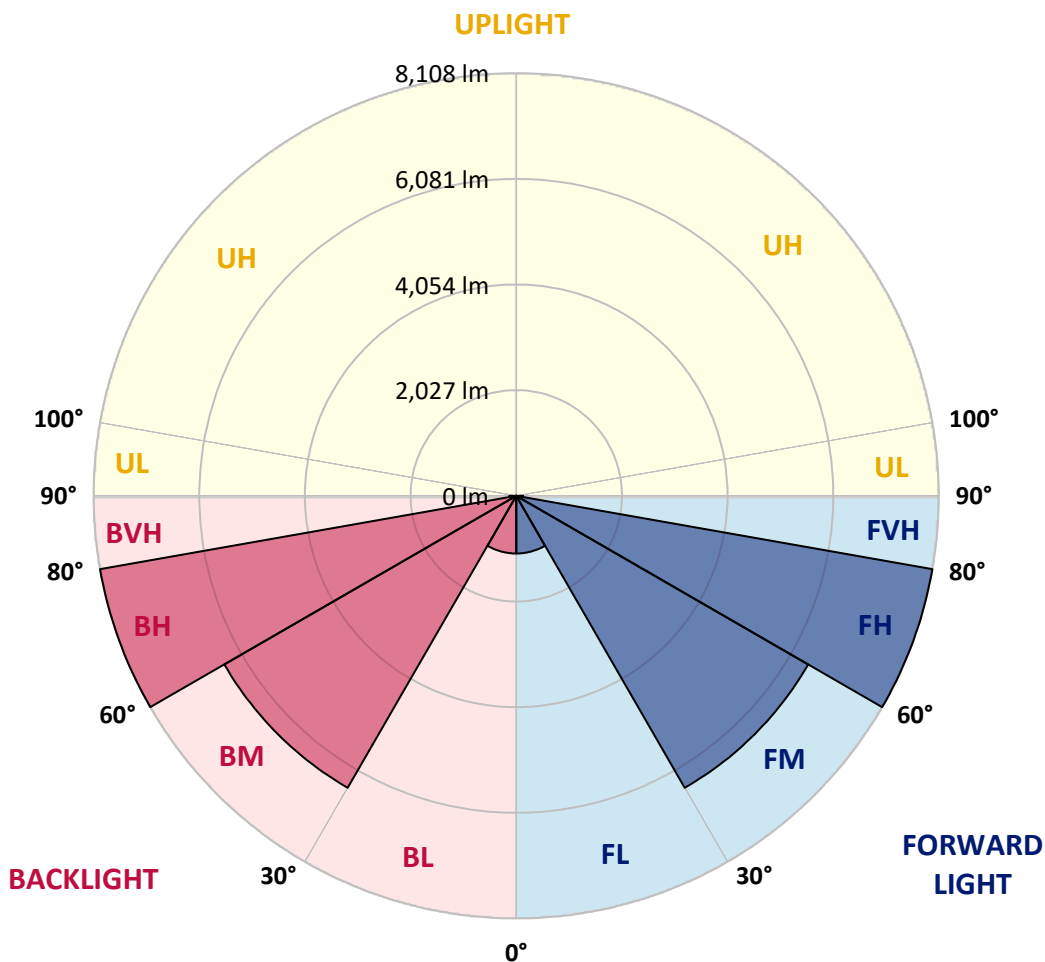


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1105.9	3.5			
FM (30°-60°)	6467.9	20.4			
FH (60°-80°)	8107.8	25.6			G4/12000
FVH (80°-90°)	132.9	0.4			G2/225
BL (0°-30°)	1105.9	3.5	B3/2500		
BM (30°-60°)	6467.9	20.4	B4/8500		
BH (60°-80°)	8107.8	25.6	B5		G4/12000
BVH (80°-90°)	132.9	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°	2326.5
2.5°	2327.1
5°	2322.5
7.5°	2318.6
10°	2322.5
12.5°	2347.5
15°	2395.6
17.5°	2463.0
20°	2554.4
22.5°	2662.3
25°	2789.6
27.5°	2927.4
30°	3089.5
32.5°	3288.7
35°	3550.3
37.5°	3851.4
40°	4186.1
42.5°	4562.2
45°	5008.5
47.5°	5523.2
50°	6119.4
52.5°	6763.4
55°	7469.8
57.5°	8175.3
60°	8876.9
62.5°	9580.5
65°	10418.2
67.5°	10596.1
70°	9762.2
72.5°	8303.2
75°	6304.0
77.5°	3854.1
80°	1223.3
82.5°	207.7
85°	117.3
87.5°	42.5
90°	0.0

(END OF REPORT)