

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: P510734

Luminaire Tested: **CTN-CA8-230-740-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510734  
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-CA8-230-740-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38362 lumens  
Efficiency: N/A  
Efficacy: 168.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

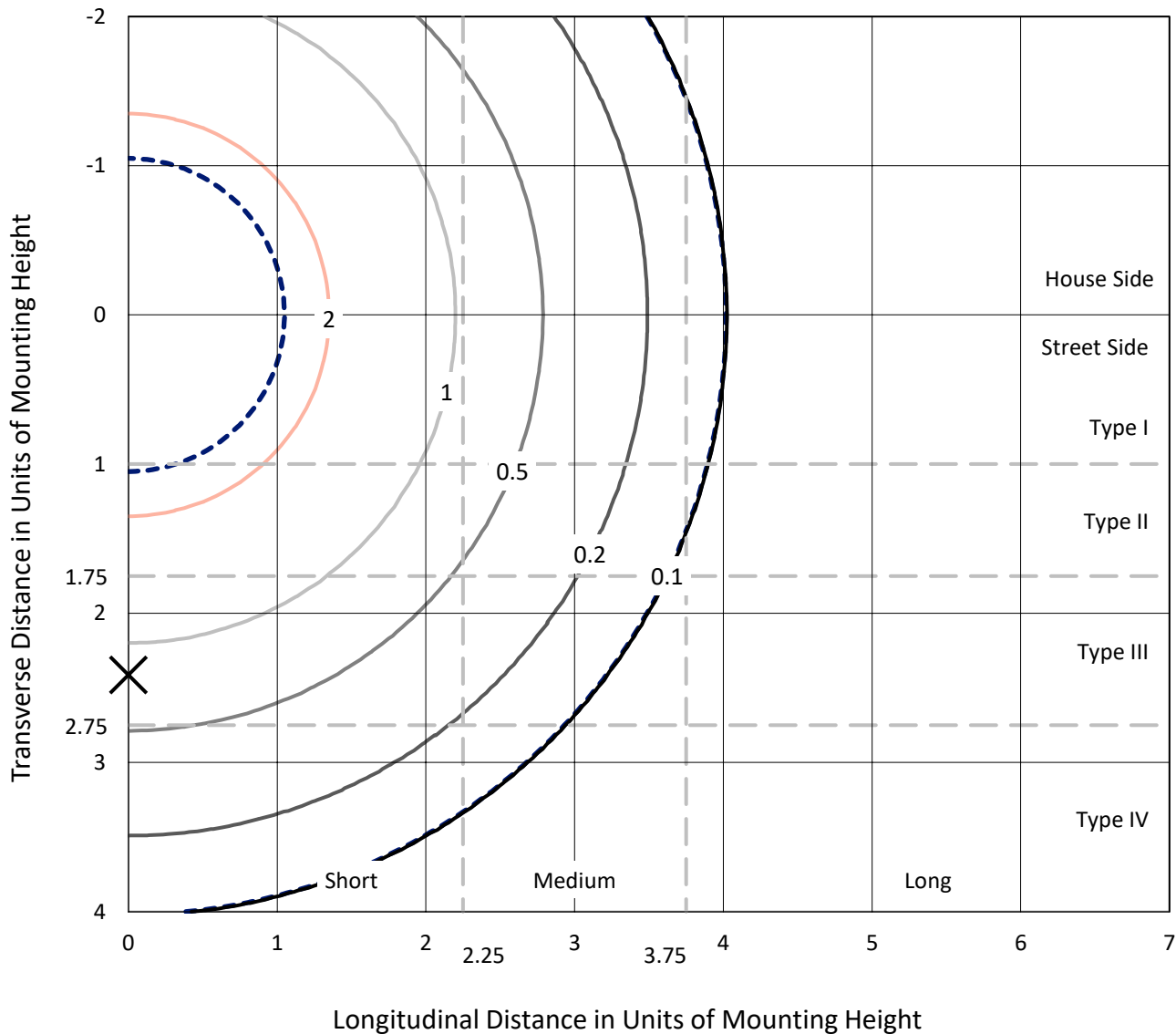
Input Watts (W): 228.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

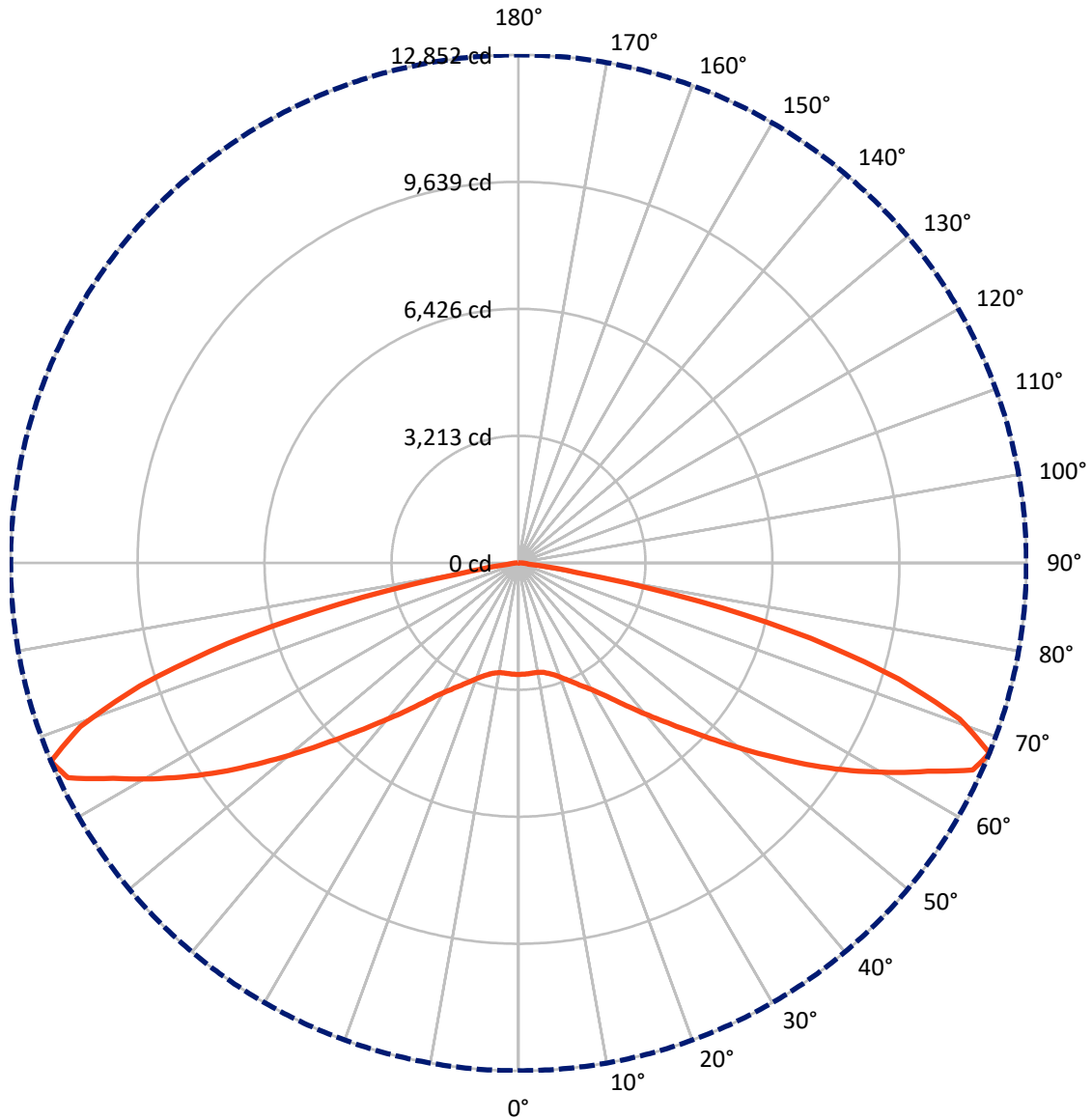
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.1 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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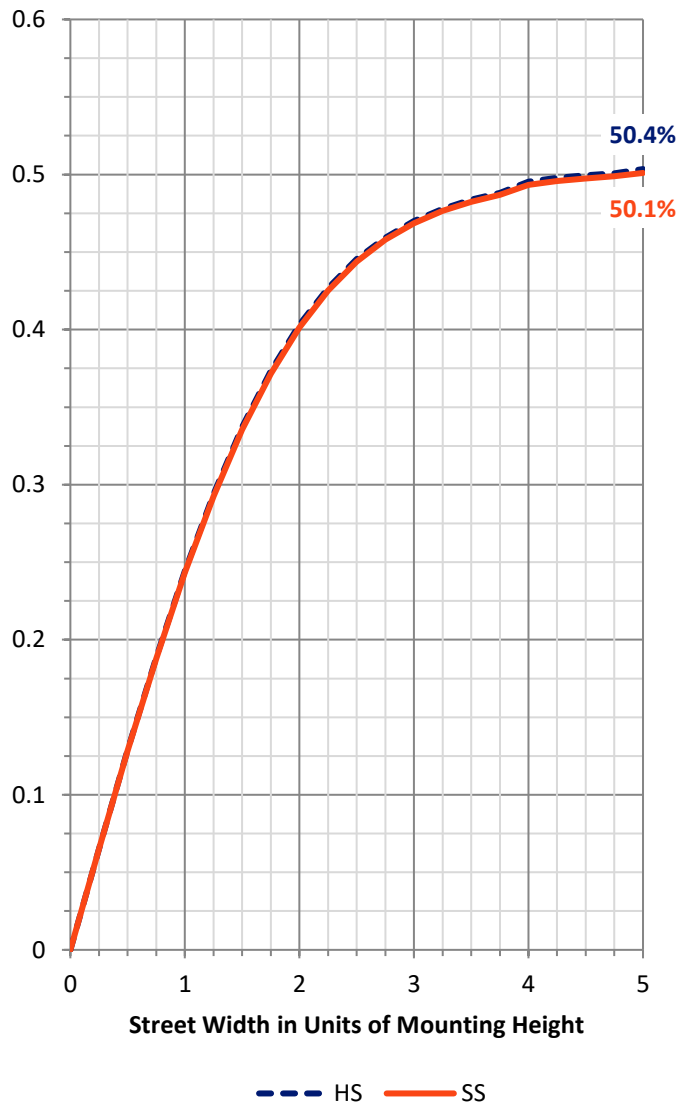
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19181.0	0.0	19181.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19181.0	0.0	19181.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38362.0	0.0	38362.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.8	0.7
10°-20°	833.0	2.2
20°-30°	1580.8	4.1
30°-40°	2745.7	7.2
40°-50°	4779.1	12.5
50°-60°	8164.6	21.3
60°-70°	12024.0	31.3
70°-80°	7643.5	19.9
80°-90°	322.4	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°	38362.0	100.0
0°-180°	38362.0	100.0

**Coefficient of Utilization**



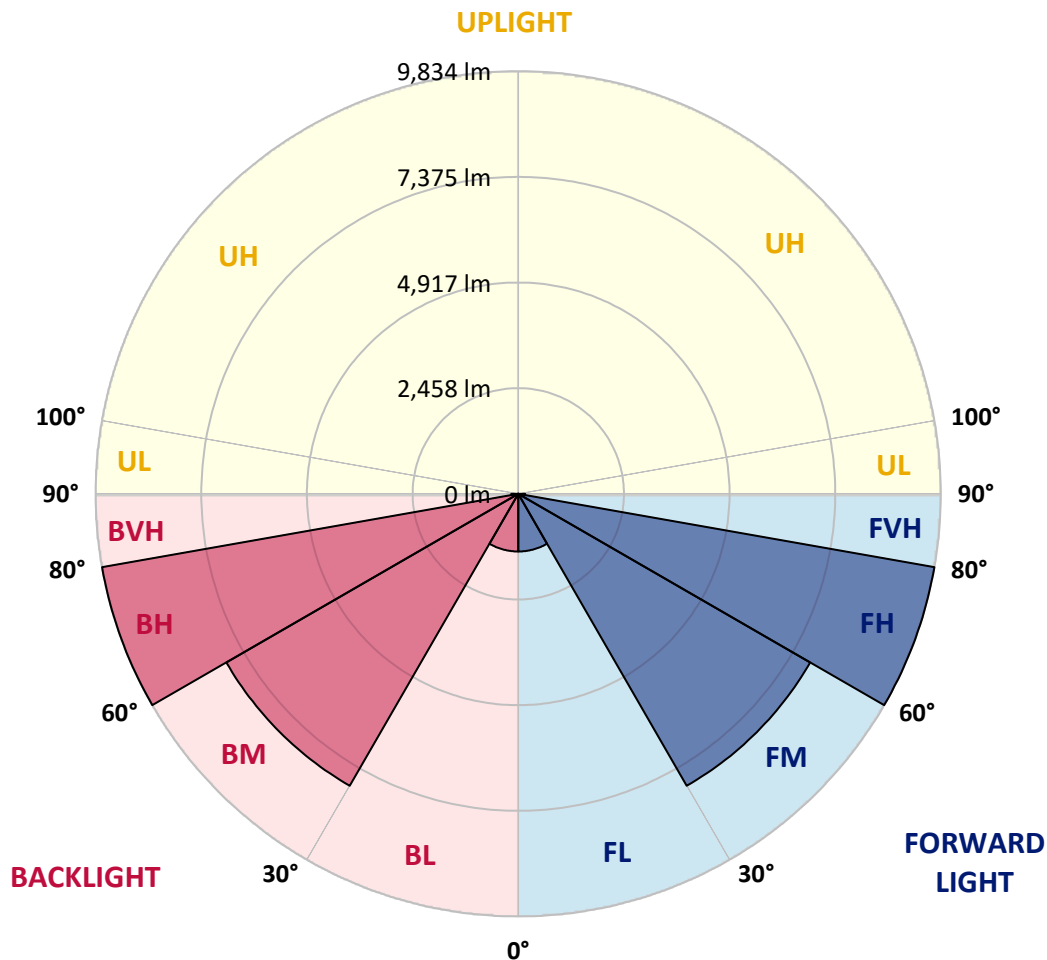
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1341.3	3.5			
FM (30°-60°)	7844.7	20.4			
FH (60°-80°)	9833.8	25.6			G4/12000
FVH (80°-90°)	161.2	0.4			G2/225
BL (0°-30°)	1341.3	3.5	B3/2500		
BM (30°-60°)	7844.7	20.4	B4/8500		
BH (60°-80°)	9833.8	25.6	B5		G4/12000
BVH (80°-90°)	161.2	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°	2821.7
2.5°	2822.5
5°	2816.9
7.5°	2812.2
10°	2816.9
12.5°	2847.2
15°	2905.6
17.5°	2987.3
20°	3098.2
22.5°	3229.1
25°	3383.4
27.5°	3550.6
30°	3747.2
32.5°	3988.8
35°	4306.1
37.5°	4671.3
40°	5077.2
42.5°	5533.3
45°	6074.7
47.5°	6699.0
50°	7422.1
52.5°	8203.1
55°	9059.9
57.5°	9915.6
60°	10766.5
62.5°	11620.0
65°	12636.0
67.5°	12851.8
70°	11840.3
72.5°	10070.7
75°	7646.0
77.5°	4674.5
80°	1483.7
82.5°	251.9
85°	142.3
87.5°	51.5
90°	0.0

(END OF REPORT)