

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: P510744

Luminaire Tested: **CTN-CA8-230-750-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510744  
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-CA8-230-750-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39066 lumens  
Efficiency: N/A  
Efficacy: 171.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

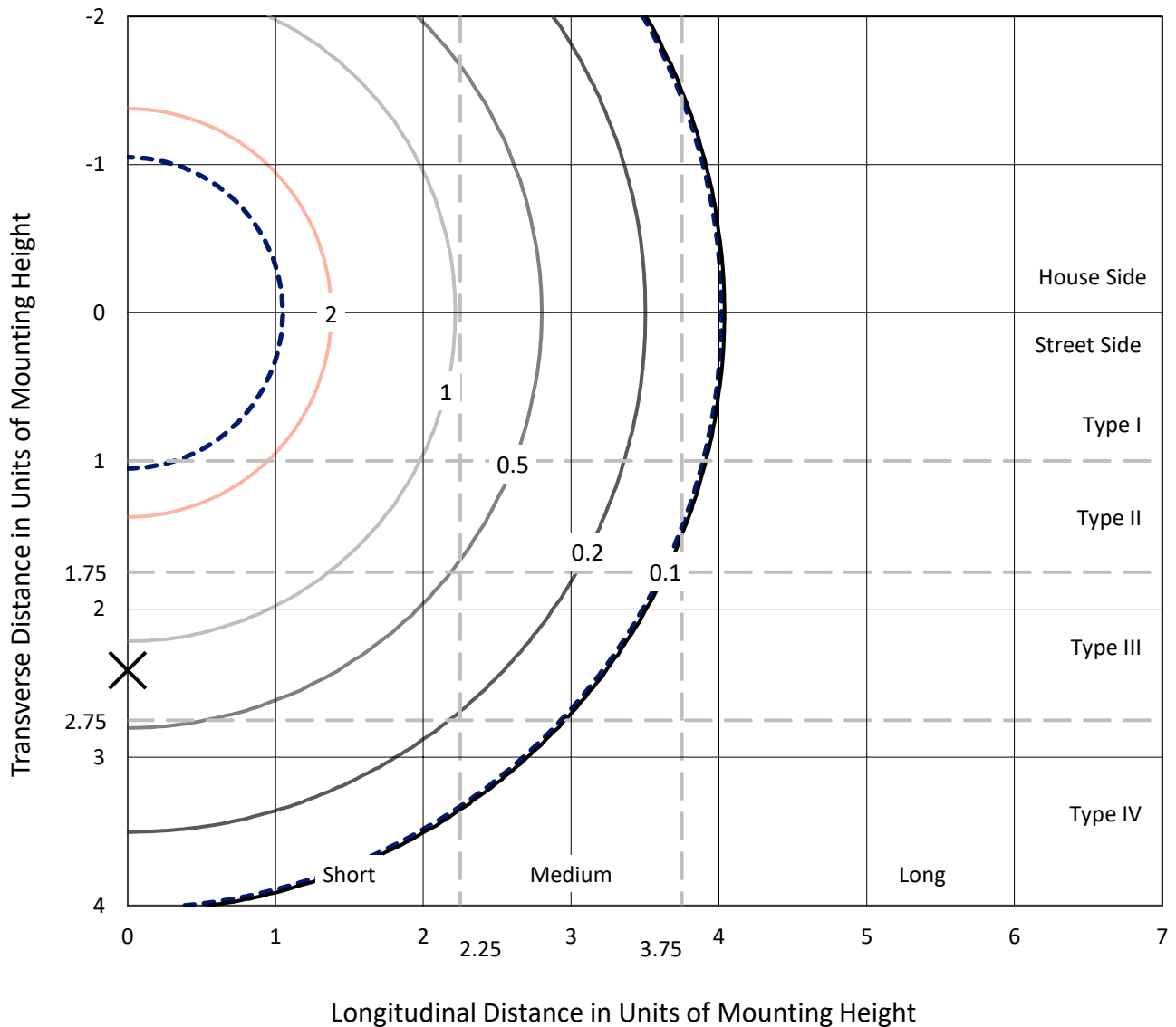
Input Watts (W): 228.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

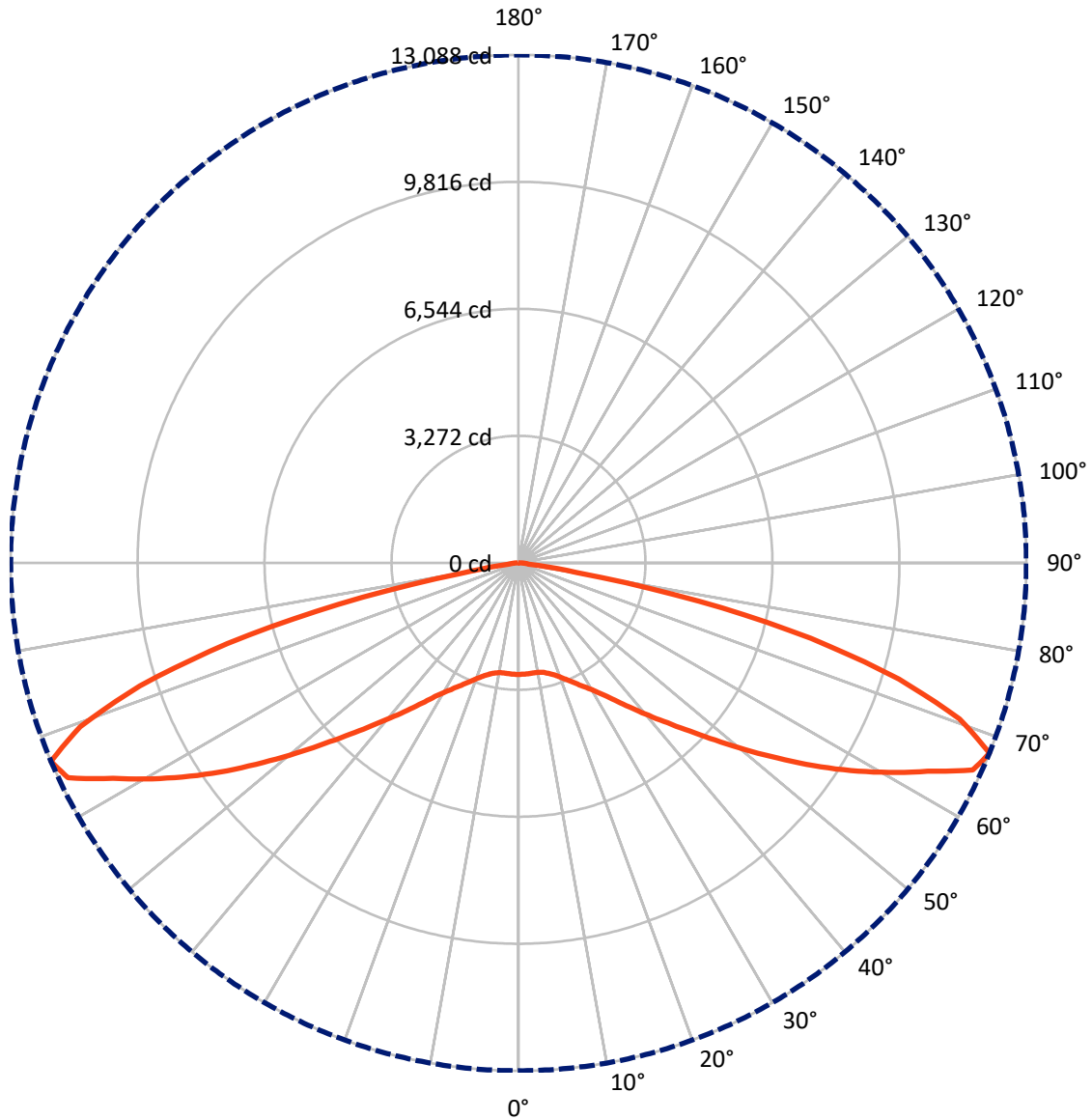
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.2 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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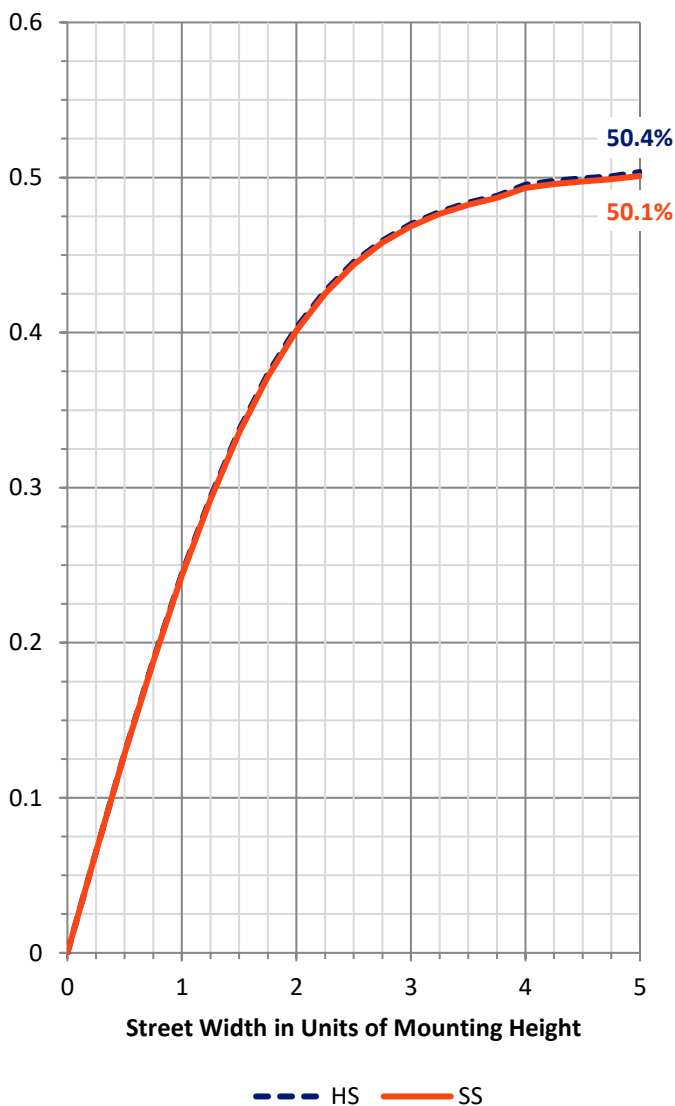
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19533.0	0.0	19533.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19533.0	0.0	19533.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39066.0	0.0	39066.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.7	0.7
10°-20°	848.3	2.2
20°-30°	1609.8	4.1
30°-40°	2796.1	7.2
40°-50°	4866.8	12.5
50°-60°	8314.5	21.3
60°-70°	12244.7	31.3
70°-80°	7783.7	19.9
80°-90°	328.3	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°	39066.0	100.0
0°-180°	39066.0	100.0

**Coefficient of Utilization**

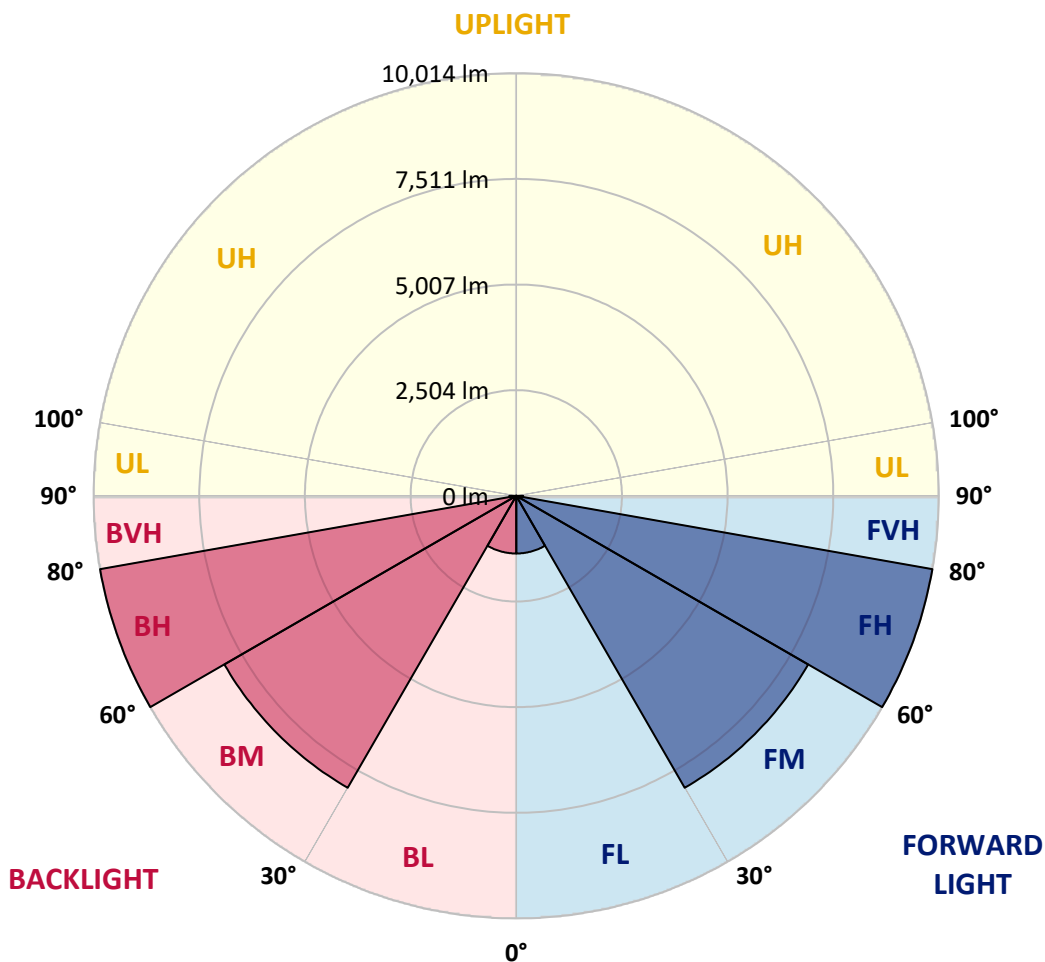


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1365.9	3.5			
FM (30°-60°)	7988.7	20.4			
FH (60°-80°)	10014.2	25.6			G4/12000
FVH (80°-90°)	164.2	0.4			G2/225
BL (0°-30°)	1365.9	3.5	B3/2500		
BM (30°-60°)	7988.7	20.4	B4/8500		
BH (60°-80°)	10014.2	25.6	B5		G4/12000
BVH (80°-90°)	164.2	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°	2873.5
2.5°	2874.3
5°	2868.6
7.5°	2863.8
10°	2868.6
12.5°	2899.5
15°	2958.9
17.5°	3042.1
20°	3155.0
22.5°	3288.3
25°	3445.5
27.5°	3615.7
30°	3816.0
32.5°	4062.0
35°	4385.1
37.5°	4757.0
40°	5170.4
42.5°	5634.9
45°	6186.1
47.5°	6821.9
50°	7558.3
52.5°	8353.7
55°	9226.2
57.5°	10097.6
60°	10964.1
62.5°	11833.2
65°	12867.9
67.5°	13087.6
70°	12057.6
72.5°	10255.5
75°	7786.3
77.5°	4760.3
80°	1510.9
82.5°	256.5
85°	144.9
87.5°	52.5
90°	0.0

(END OF REPORT)