

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: P510854

Luminaire Tested: **CTN-CA8-480-740-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510854  
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-CA8-480-740-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: 76057 lumens  
Efficiency: N/A  
Efficacy: 158.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

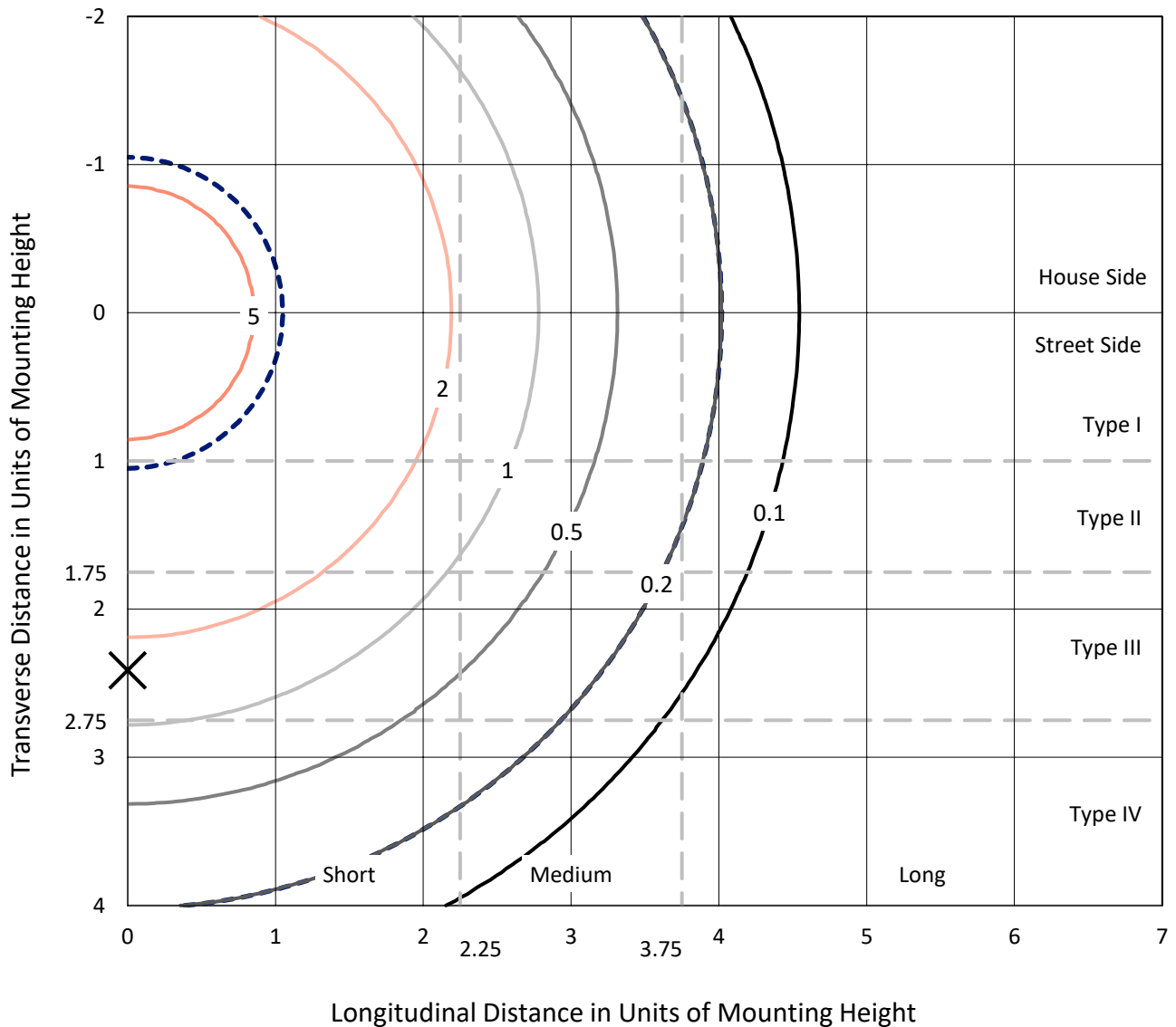
Input Watts (W): 480.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

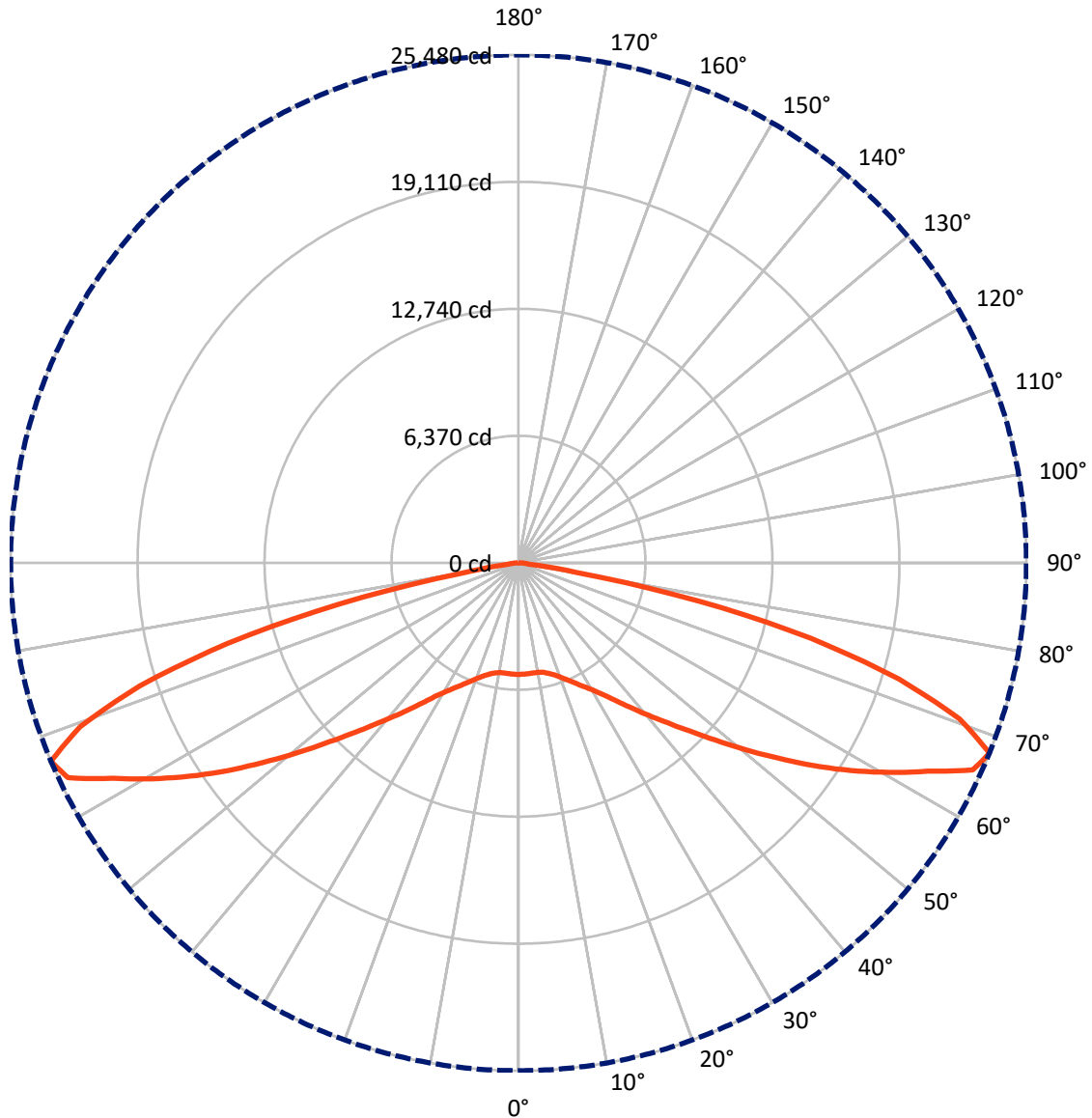
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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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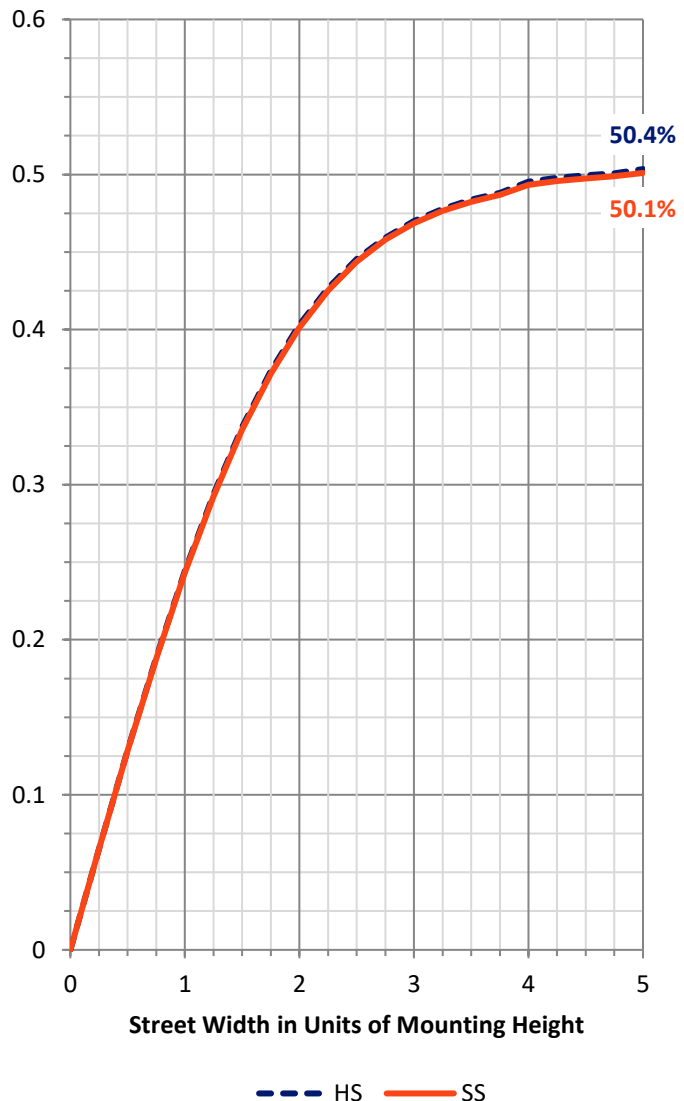
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	38028.5	0.0	38028.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	38028.5	0.0	38028.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	76057.0	0.0	76057.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	532.9	0.7
10°-20°	1651.6	2.2
20°-30°	3134.2	4.1
30°-40°	5443.7	7.2
40°-50°	9475.1	12.5
50°-60°	16187.3	21.3
60°-70°	23839.0	31.3
70°-80°	15154.0	19.9
80°-90°	639.2	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°	76057.0	100.0
0°-180°	76057.0	100.0

**Coefficient of Utilization**

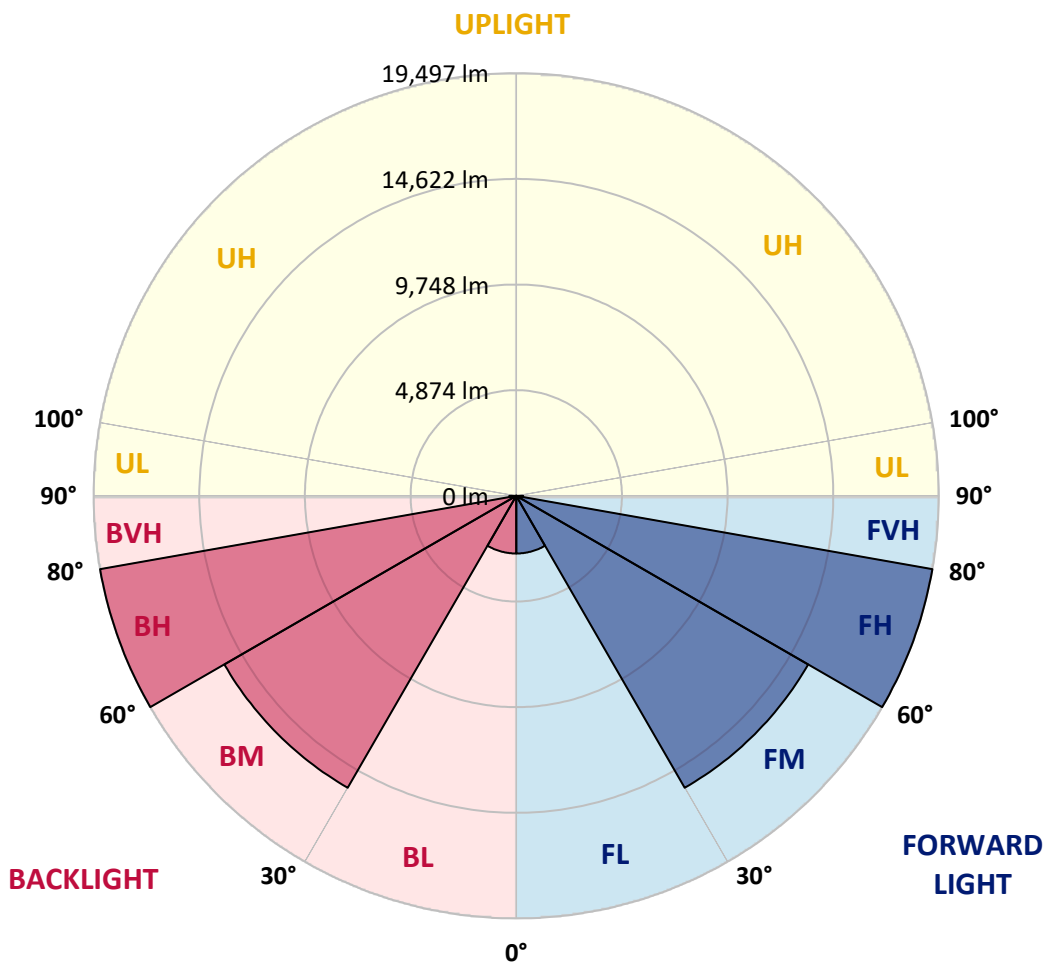


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2659.3	3.5			
FM (30°-60°)	15553.0	20.4			
FH (60°-80°)	19496.5	25.6			G5
FVH (80°-90°)	319.6	0.4			G3/500
BL (0°-30°)	2659.3	3.5	B4/5000		
BM (30°-60°)	15553.0	20.4	B5		
BH (60°-80°)	19496.5	25.6	B5		G5
BVH (80°-90°)	319.6	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5594.4
2.5°	5595.9
5°	5584.8
7.5°	5575.6
10°	5584.9
12.5°	5645.0
15°	5760.7
17.5°	5922.6
20°	6142.5
22.5°	6402.0
25°	6707.9
27.5°	7039.4
30°	7429.2
32.5°	7908.3
35°	8537.3
37.5°	9261.4
40°	10066.1
42.5°	10970.4
45°	12043.7
47.5°	13281.5
50°	14715.1
52.5°	16263.6
55°	17962.3
57.5°	19658.9
60°	21345.9
62.5°	23037.9
65°	25052.3
67.5°	25480.1
70°	23474.7
72.5°	19966.3
75°	15159.1
77.5°	9267.7
80°	2941.6
82.5°	499.3
85°	282.1
87.5°	102.1
90°	0.0

(END OF REPORT)