

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: P510742

Luminaire Tested: **CTN-CA8-230-750-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510742  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)  
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-T5  
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: 37657 lumens  
Efficiency: N/A  
Efficacy: 164.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

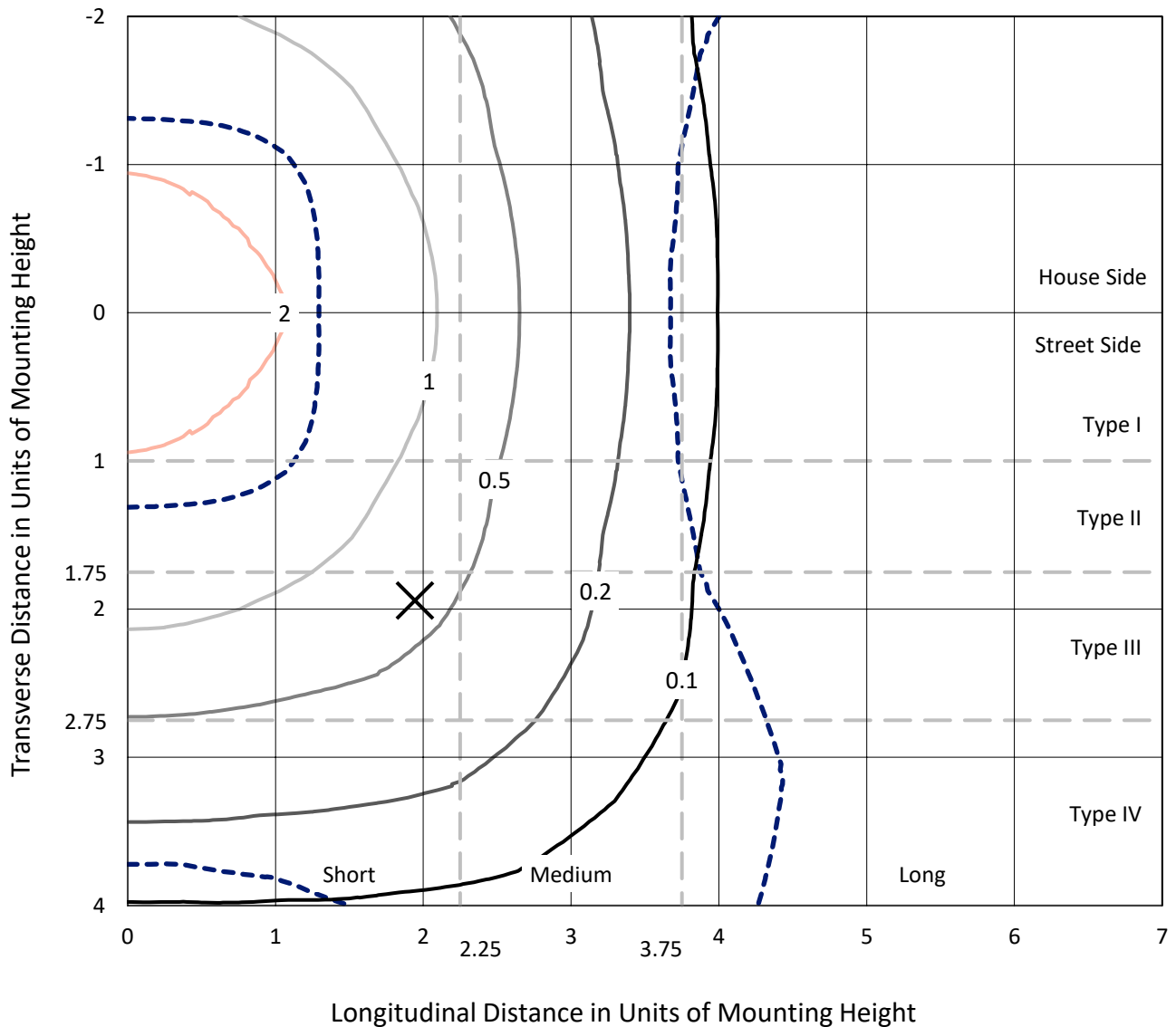
Input Watts (W): 228.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

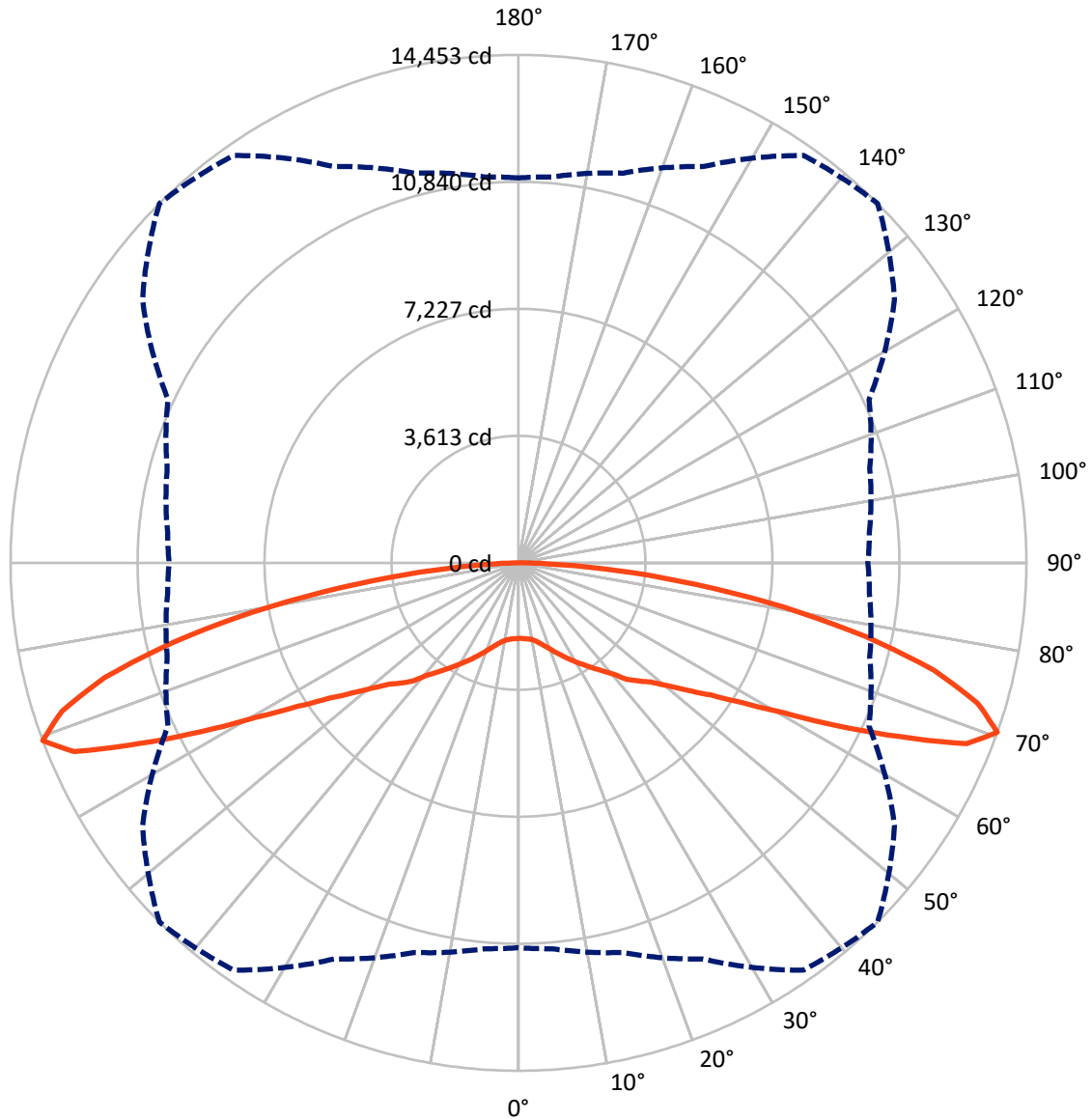
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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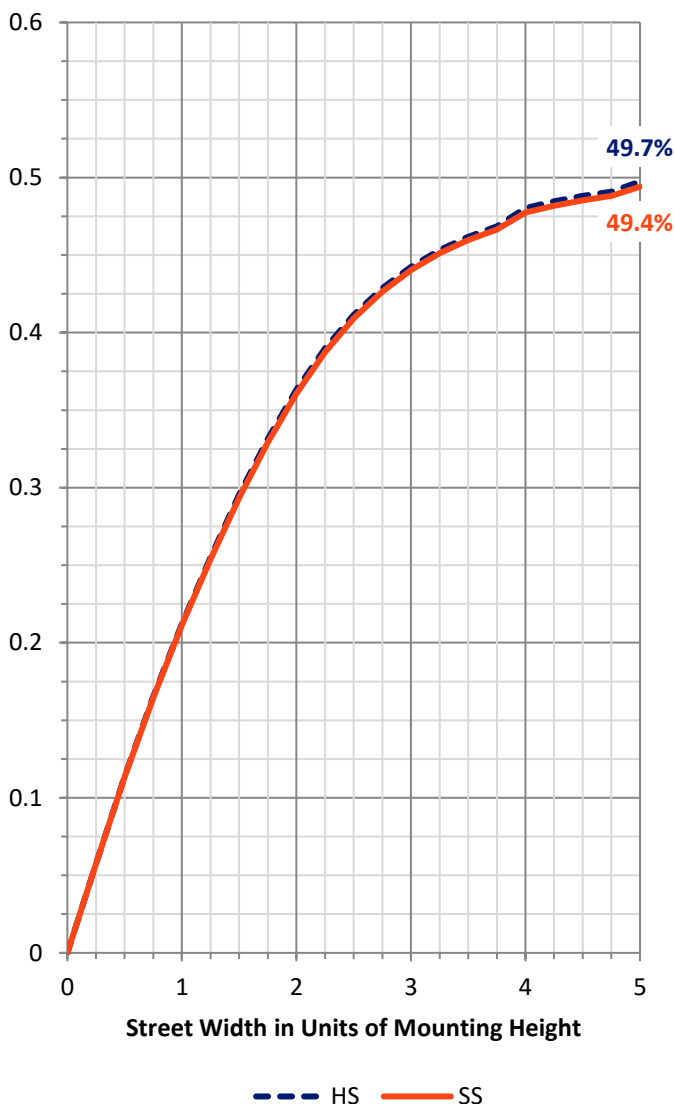
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18828.5	0.0	18828.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18828.5	0.0	18828.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37657.0	0.0	37657.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	0.6
10°-20°	681.3	1.8
20°-30°	1348.7	3.6
30°-40°	2333.2	6.2
40°-50°	3882.0	10.3
50°-60°	6770.9	18.0
60°-70°	11208.9	29.8
70°-80°	9394.0	24.9
80°-90°	1828.7	4.9
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°	37657.0	100.0
0°-180°	37657.0	100.0

**Coefficient of Utilization**



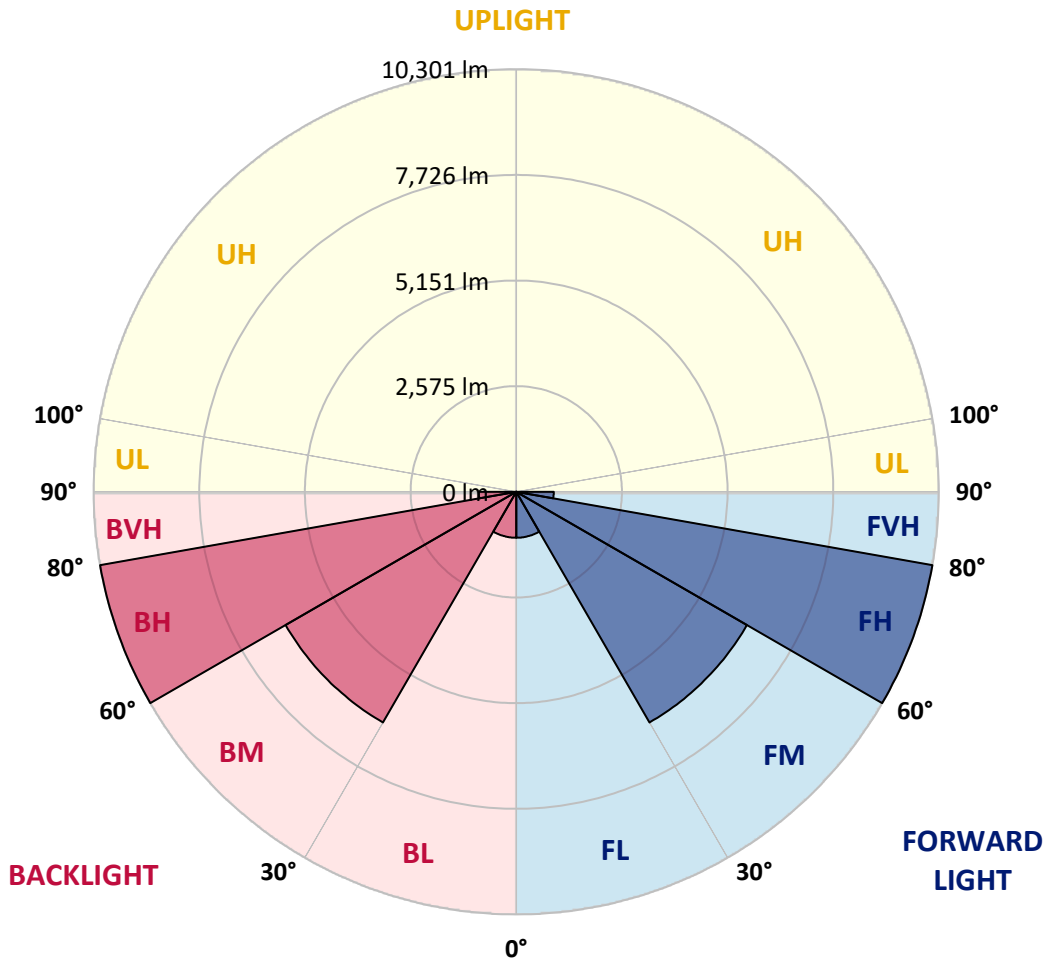
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.6	3.0			
FM (30°-60°)	6493.1	17.2			
FH (60°-80°)	10301.5	27.4			G4/12000
FVH (80°-90°)	914.4	2.4			G5
BL (0°-30°)	1119.6	3.0	B3/2500		
BM (30°-60°)	6493.1	17.2	B4/8500		
BH (60°-80°)	10301.5	27.4	B5		G4/12000
BVH (80°-90°)	914.4	2.4			G5
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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2
2.5°	2165.6	2158.9	2156.7	2154.5	2155.9	2155.2	2158.9	2160.4	2161.9	2168.6	2164.9
5°	2179.1	2173.8	2173.1	2170.1	2169.4	2169.4	2174.6	2175.3	2176.1	2180.6	2176.1
7.5°	2203.7	2198.5	2197.0	2195.5	2194.7	2191.7	2195.5	2194.0	2195.5	2197.7	2192.5
10°	2242.5	2236.5	2235.0	2231.3	2233.5	2229.0	2232.0	2228.3	2221.6	2223.1	2215.6
12.5°	2295.4	2290.2	2292.4	2291.7	2300.6	2298.4	2292.4	2285.0	2273.8	2266.3	2258.1
15°	2373.7	2365.5	2371.5	2377.4	2386.4	2390.1	2385.6	2365.5	2349.1	2337.2	2330.5
17.5°	2469.2	2455.7	2467.7	2479.6	2499.0	2502.7	2486.3	2461.7	2443.8	2438.6	2427.4
20°	2580.3	2578.0	2578.8	2598.2	2628.0	2633.2	2611.6	2582.5	2564.6	2565.4	2552.7
22.5°	2714.5	2702.6	2706.3	2725.7	2768.2	2782.4	2746.6	2714.5	2703.3	2706.3	2704.8
25°	2868.1	2856.9	2851.7	2860.7	2915.9	2940.5	2906.2	2868.9	2863.7	2870.4	2859.9
27.5°	3036.7	3026.2	3020.3	3024.7	3068.0	3114.2	3076.2	3044.9	3044.1	3053.8	3047.9
30°	3228.3	3212.7	3206.0	3211.2	3241.0	3285.7	3255.2	3236.5	3252.2	3258.9	3256.7
32.5°	3422.2	3414.8	3412.5	3411.0	3447.6	3472.9	3458.0	3461.7	3474.4	3505.0	3495.3
35°	3643.0	3621.3	3627.3	3631.8	3679.5	3681.7	3683.2	3689.9	3723.5	3766.8	3741.4
37.5°	3872.6	3867.4	3871.2	3858.5	3893.5	3907.7	3928.6	3951.0	4003.9	4053.9	4043.4
40°	4156.8	4147.1	4150.8	4135.9	4153.0	4164.2	4206.7	4255.2	4323.1	4376.8	4352.2
42.5°	4533.4	4508.8	4508.8	4513.2	4549.0	4537.1	4628.1	4641.5	4725.8	4771.3	4757.1
45°	4976.3	4967.4	4920.4	4841.4	4796.6	4795.9	4869.0	4977.8	5117.3	5212.0	5211.3
47.5°	5539.4	5511.8	5399.2	5209.0	5095.7	5068.1	5144.9	5356.7	5613.2	5760.9	5758.6
50°	6277.7	6242.6	6071.8	5776.5	5555.8	5487.9	5611.0	5885.4	6230.7	6427.6	6444.0
52.5°	7104.0	7106.9	6913.8	6467.1	6140.5	6018.2	6148.7	6540.9	6971.2	7241.2	7273.2
55°	8063.7	8040.6	7857.9	7351.5	6901.9	6639.4	6837.0	7356.8	7851.2	8057.0	8113.7
57.5°	9063.0	8972.8	8832.6	8359.0	7833.3	7497.7	7734.9	8243.5	8717.0	8979.5	8970.6
60°	9949.0	9889.3	9808.8	9431.4	9028.0	8644.7	8827.4	9257.7	9663.4	9822.2	9828.9
62.5°	10916.9	10867.0	10794.6	10588.1	10365.8	10223.4	10057.8	10257.0	10573.9	10747.7	10804.3
65°	11867.0	11849.1	11890.9	11859.6	11953.5	11932.6	11535.9	11410.6	11415.8	11366.6	11341.3
67.5°	11811.1	11804.4	12050.5	12541.2	13477.8	13743.3	12725.4	11591.8	11081.0	10951.3	10932.6
70°	10949.8	11022.1	11477.7	12438.3	14147.5	14453.3	13059.5	11002.0	10348.7	10023.5	9943.0
72.5°	9292.7	9434.4	10133.2	11547.8	13591.2	13661.3	12219.8	10114.5	9152.5	8764.7	8707.3
75°	7170.3	7188.2	7903.4	9701.4	12129.5	12217.5	10900.5	8483.6	7537.2	7054.7	7039.8
77.5°	4367.1	4621.4	5664.7	7274.0	9642.5	10100.4	9116.7	6757.2	5631.9	5204.5	4965.9
80°	2142.5	2258.9	3010.6	4599.0	6892.2	7659.5	6765.4	4673.6	3473.7	2931.5	2871.9
82.5°	975.4	1037.3	1424.4	2404.3	4159.0	5109.8	4175.4	2676.5	1854.7	1450.5	1437.0
85°	378.8	376.6	576.5	1009.0	1991.1	2829.4	2114.2	1276.7	848.7	630.9	595.1
87.5°	110.4	117.8	169.3	331.1	589.9	795.0	651.8	441.5	261.0	167.8	154.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)