

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: P232760

Luminaire Tested: **CTN-8-3-D-E1-T5N-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-22)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: CTN-8-3-D-E1-T5N-7030  
Description: CELESTEON HIGH MAST LUMINAIRE  
(8) 70 CRI, 3000K LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33704 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 226  
Input Voltage (V): NR  
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: 25 FT

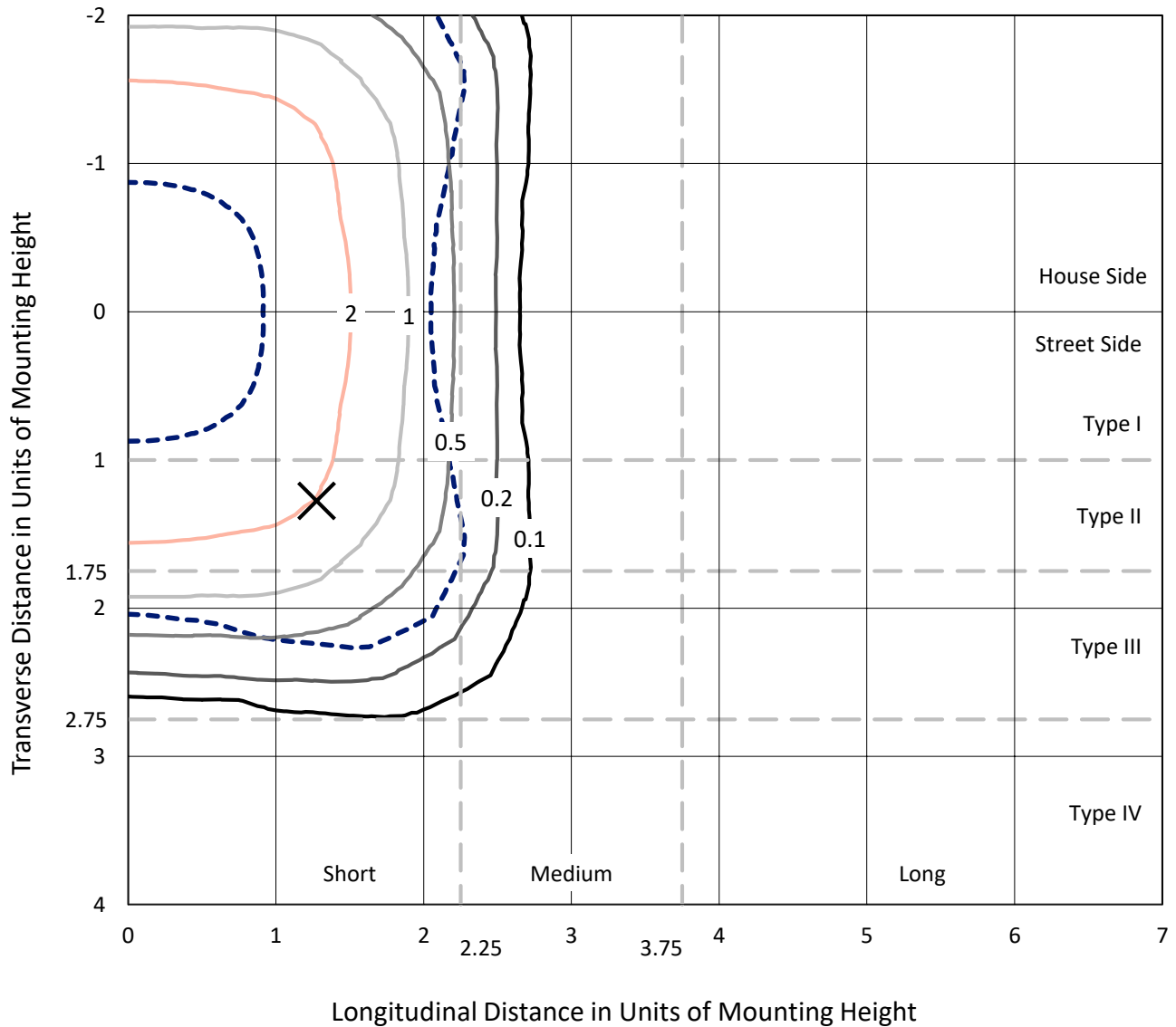


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### Iso-Footcandle Lines of Horizontal Illumination

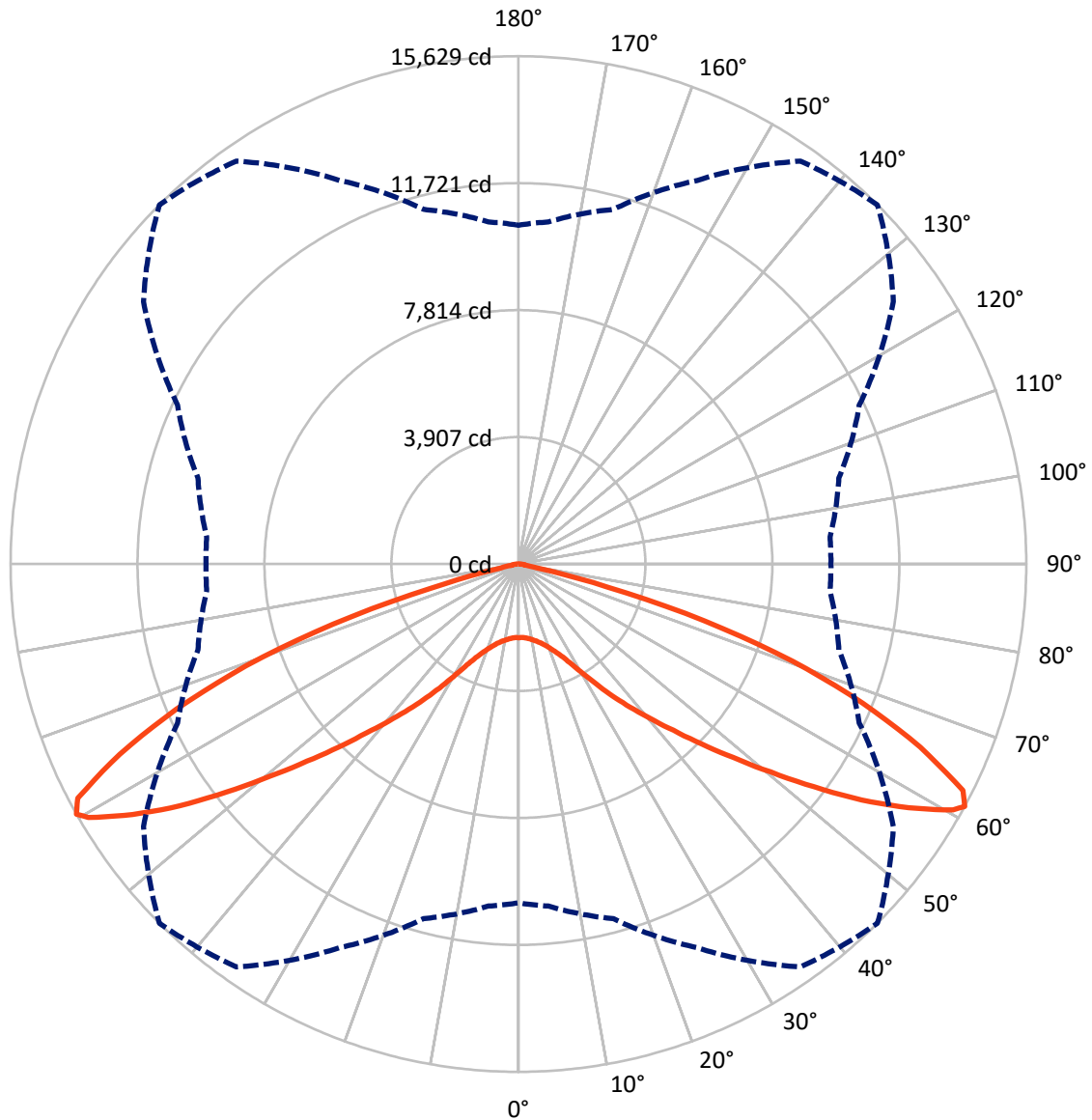
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 61-Deg Vertical

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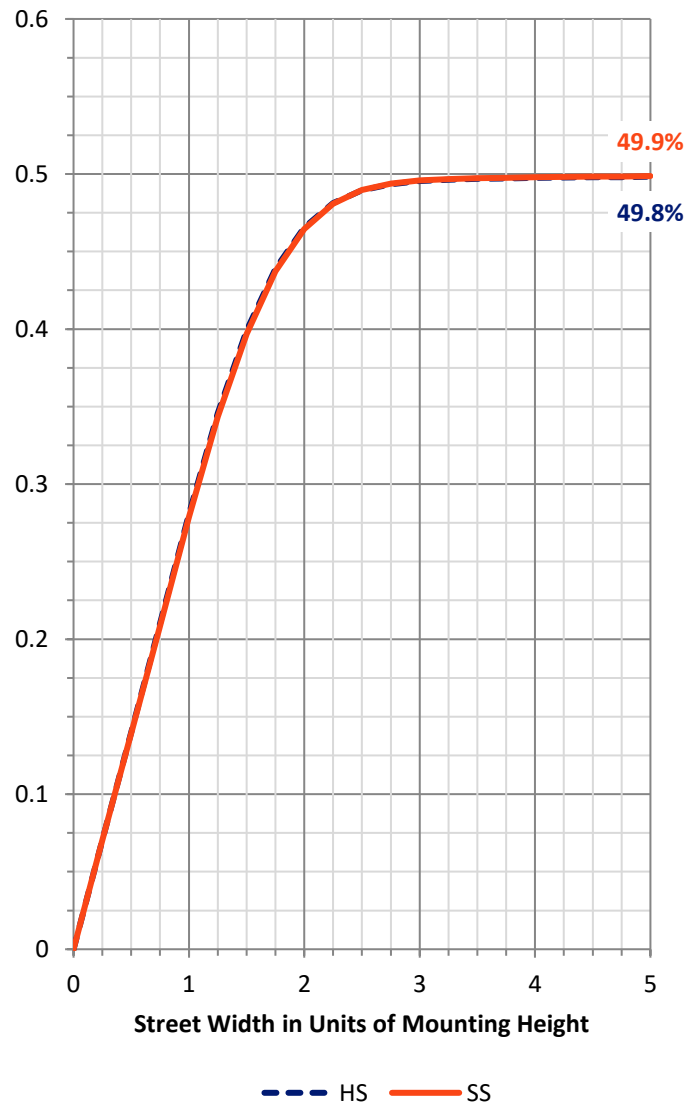
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16852.0	0.0	16852.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16852.0	0.0	16852.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33704.0	0.0	33704.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.7	0.7
10°-20°	726.3	2.2
20°-30°	1549.6	4.6
30°-40°	3375.2	10.0
40°-50°	6527.1	19.4
50°-60°	10365.2	30.8
60°-70°	9347.3	27.7
70°-80°	1463.0	4.3
80°-90°	128.6	0.4
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°	33704.0	100.0
0°-180°	33704.0	100.0



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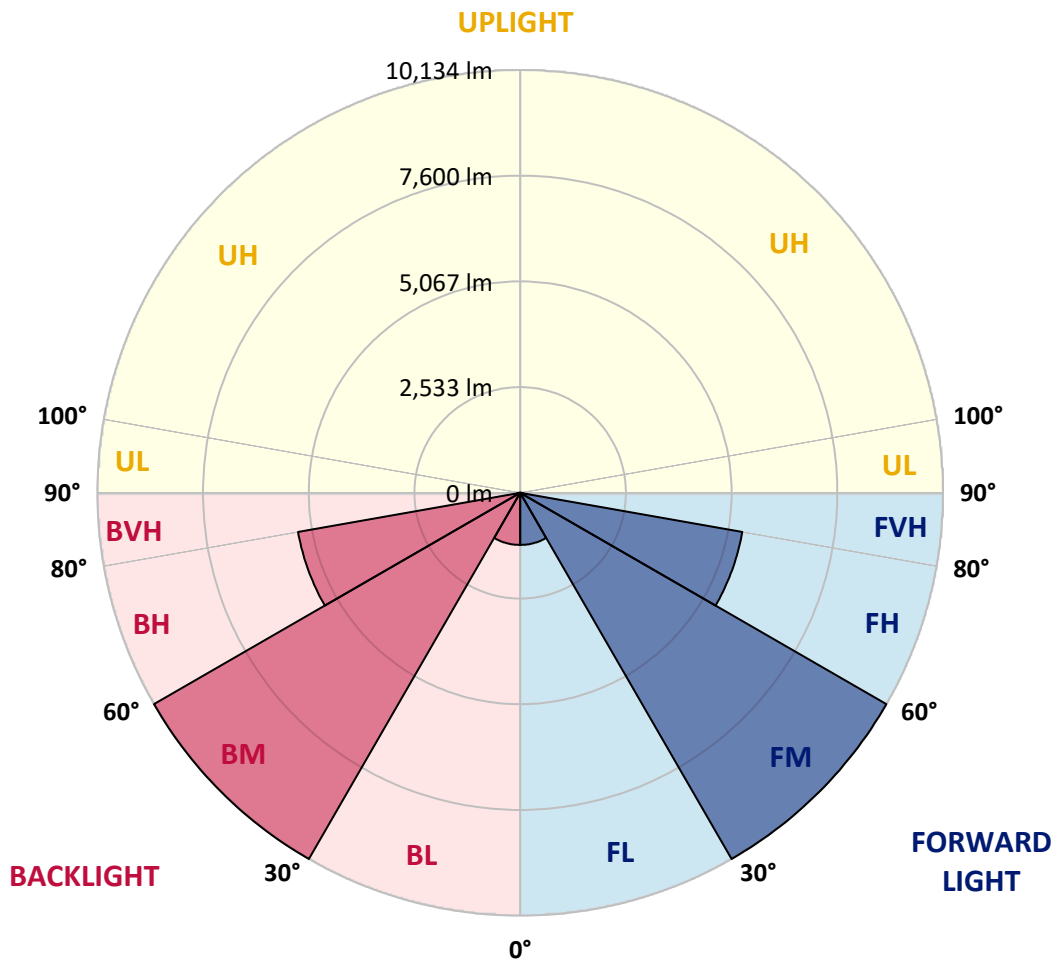
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1248.8	3.7			
FM	(30°-60°)	10133.8	30.1			
FH	(60°-80°)	5405.2	16.0			G3/7500
FVH	(80°-90°)	64.3	0.2			G1/100
BL	(0°-30°)	1248.8	3.7	B3/2500		
BM	(30°-60°)	10133.8	30.1	B5		
BH	(60°-80°)	5405.2	16.0	B5		G3/7500
BVH	(80°-90°)	64.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8
2.5°	2284.4	2279.5	2283.4	2286.4	2252.2	2261.0	2260.0	2283.4	2278.5	2289.3	2295.1
5°	2300.0	2292.2	2297.1	2304.9	2272.7	2284.4	2284.4	2305.9	2298.1	2308.8	2319.5
7.5°	2328.3	2320.5	2326.4	2336.1	2305.9	2318.6	2319.5	2344.9	2334.2	2343.0	2359.6
10°	2375.2	2370.3	2372.3	2381.0	2352.7	2368.4	2368.4	2395.7	2384.0	2393.7	2414.2
12.5°	2429.9	2427.9	2429.9	2441.6	2415.2	2430.8	2430.8	2457.2	2449.4	2461.1	2480.6
15°	2502.1	2500.1	2501.1	2516.7	2495.3	2509.9	2512.8	2540.2	2538.2	2550.9	2568.5
17.5°	2604.6	2604.6	2603.6	2617.3	2603.6	2618.3	2624.1	2653.4	2665.1	2680.8	2691.5
20°	2760.8	2752.0	2747.1	2754.0	2743.2	2758.9	2768.6	2816.4	2836.0	2860.4	2869.2
22.5°	2964.8	2953.1	2937.5	2930.7	2916.0	2936.5	2956.1	3024.4	3052.7	3092.7	3102.5
25°	3246.0	3226.5	3197.2	3169.8	3136.7	3165.9	3202.1	3295.8	3354.4	3407.1	3414.9
27.5°	3630.6	3601.3	3556.4	3503.7	3445.1	3481.3	3534.0	3670.7	3750.7	3834.7	3847.4
30°	4126.6	4121.7	4051.4	3957.7	3879.6	3900.1	3965.5	4134.4	4261.3	4348.2	4372.6
32.5°	4788.5	4783.6	4665.4	4507.3	4396.0	4409.7	4470.2	4657.6	4815.8	4957.3	4962.2
35°	5577.3	5561.6	5395.7	5177.0	4998.3	4982.7	5042.3	5228.7	5444.5	5609.5	5626.1
37.5°	6478.3	6452.9	6261.6	5930.7	5654.4	5589.9	5631.9	5866.2	6116.1	6302.6	6321.1
40°	7360.8	7341.3	7128.5	6818.1	6413.9	6250.9	6253.8	6553.5	6827.8	7000.6	7038.7
42.5°	8211.1	8226.8	8022.7	7706.4	7283.7	6992.8	6996.7	7287.6	7571.7	7751.3	7801.1
45°	9083.9	9070.2	8878.9	8607.5	8218.0	7895.8	7786.5	8077.4	8359.5	8506.9	8560.6
47.5°	9798.5	9774.1	9645.2	9501.7	9212.8	8895.5	8703.2	8905.3	9099.5	9199.1	9253.8
50°	10421.4	10401.8	10389.1	10328.6	10264.2	10059.2	9742.9	9730.2	9772.2	9793.6	9843.4
52.5°	10948.5	10947.5	11015.9	11164.3	11323.4	11394.7	10847.0	10492.6	10348.1	10241.7	10260.3
55°	11345.8	11341.0	11535.2	11932.6	12494.9	12817.0	12008.7	11152.6	10771.8	10565.8	10563.9
57.5°	11549.9	11558.7	11953.1	12672.6	13715.2	14154.5	13125.5	11758.8	11106.7	10793.3	10789.4
60°	11011.0	11048.1	11821.3	13131.4	14793.9	15368.0	14040.3	11884.7	10743.5	10217.3	10203.6
61°	10427.2	10566.8	11298.0	13026.9	15135.6	15628.6	14084.2	11572.3	10208.5	9627.7	9615.0
62.5°	9143.5	9274.3	10393.0	12766.3	15112.2	15355.3	13834.3	11011.0	9369.0	8721.7	8695.4
65°	6634.5	6788.8	7993.4	11310.7	13737.6	13593.2	12583.7	9722.4	7856.8	7128.5	7095.3
67.5°	3335.8	3533.0	4885.1	8208.2	11161.3	11435.7	10743.5	7697.6	5568.5	4204.7	4200.8
70°	862.0	946.0	1761.1	4316.9	8049.1	8957.0	8191.6	4459.5	2165.3	1306.2	1225.2
72.5°	241.1	252.8	478.4	1572.7	4577.6	6000.9	4440.9	1559.1	488.1	278.2	254.8
75°	169.9	172.8	190.4	398.3	1728.9	2800.8	1431.2	336.8	195.2	184.5	184.5
77.5°	151.3	153.3	165.0	214.8	362.2	629.7	274.3	217.7	171.8	166.0	164.0
80°	160.1	162.1	168.9	207.9	212.8	226.5	190.4	188.4	170.8	174.7	172.8
82.5°	171.8	175.7	184.5	212.8	182.6	183.5	156.2	155.2	151.3	171.8	172.8
85°	152.3	159.1	166.0	186.5	150.3	123.0	127.9	101.5	108.4	128.9	124.0
87.5°	84.9	84.0	81.0	84.9	76.1	61.5	51.7	46.9	43.0	48.8	47.8
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)