

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: P232764

Luminaire Tested: **CTN-8-6-D-E1-T5N-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232764  
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-8-6-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: 67519 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 477  
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

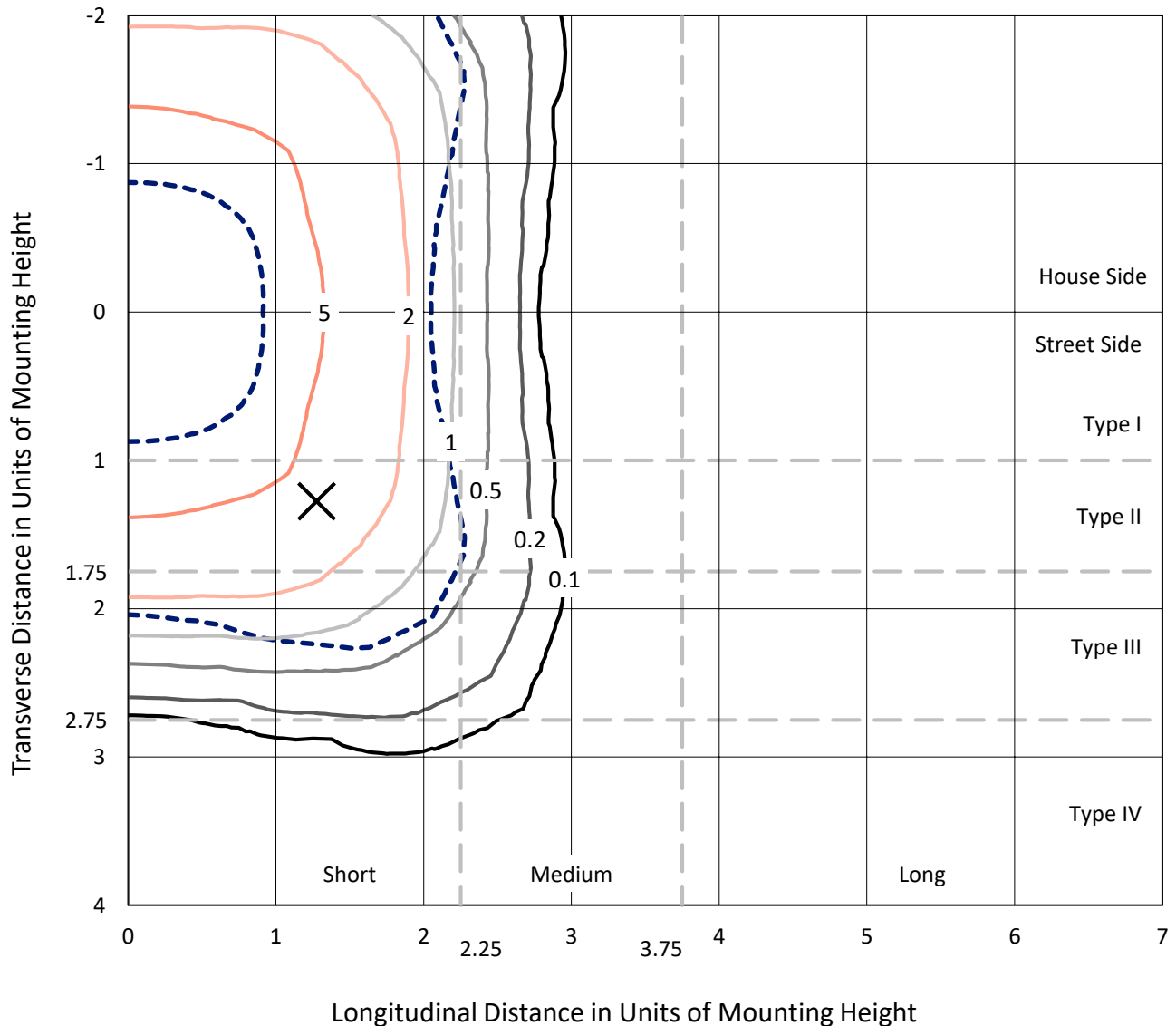


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### Iso-Footcandle Lines of Horizontal Illumination

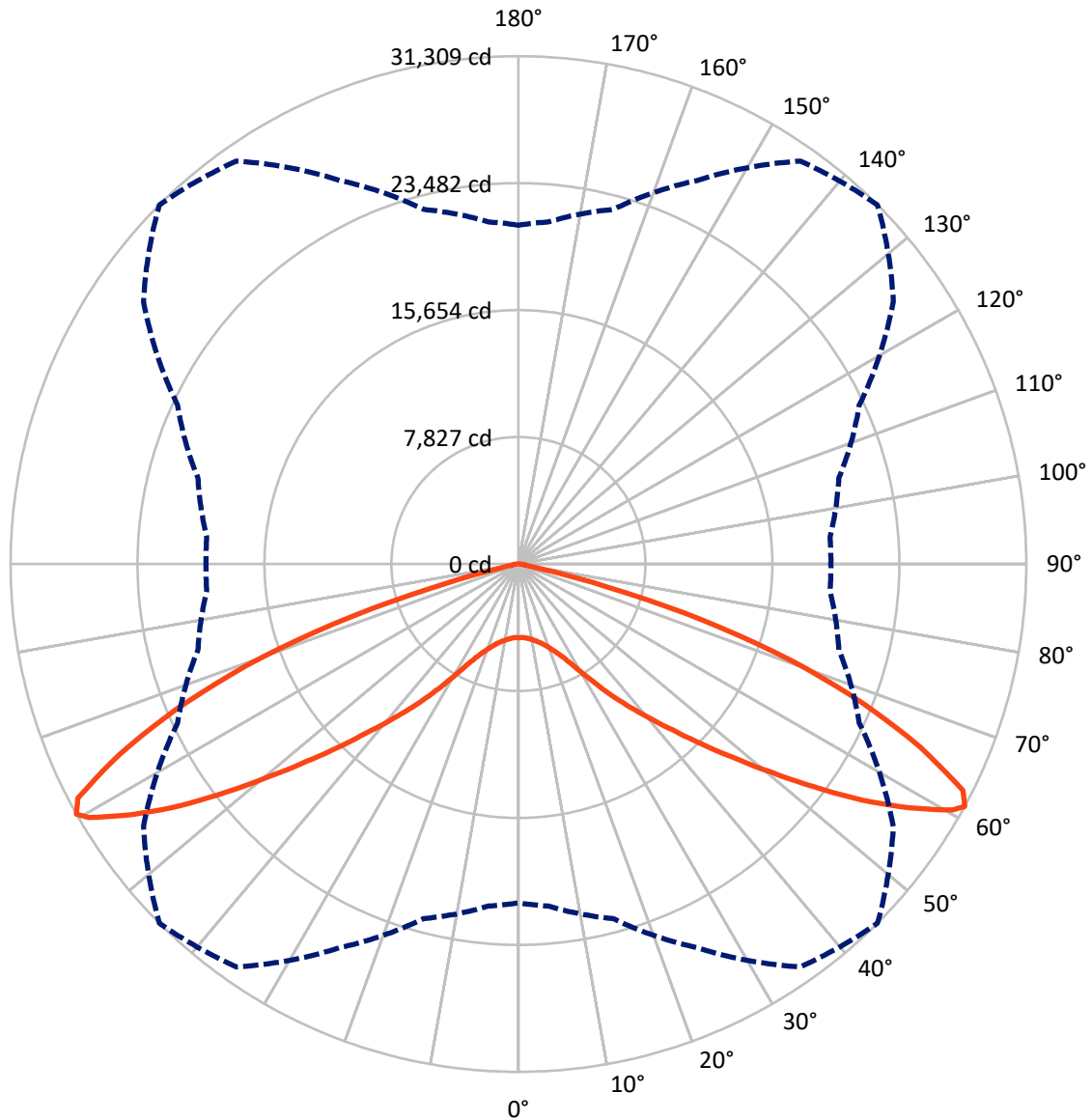
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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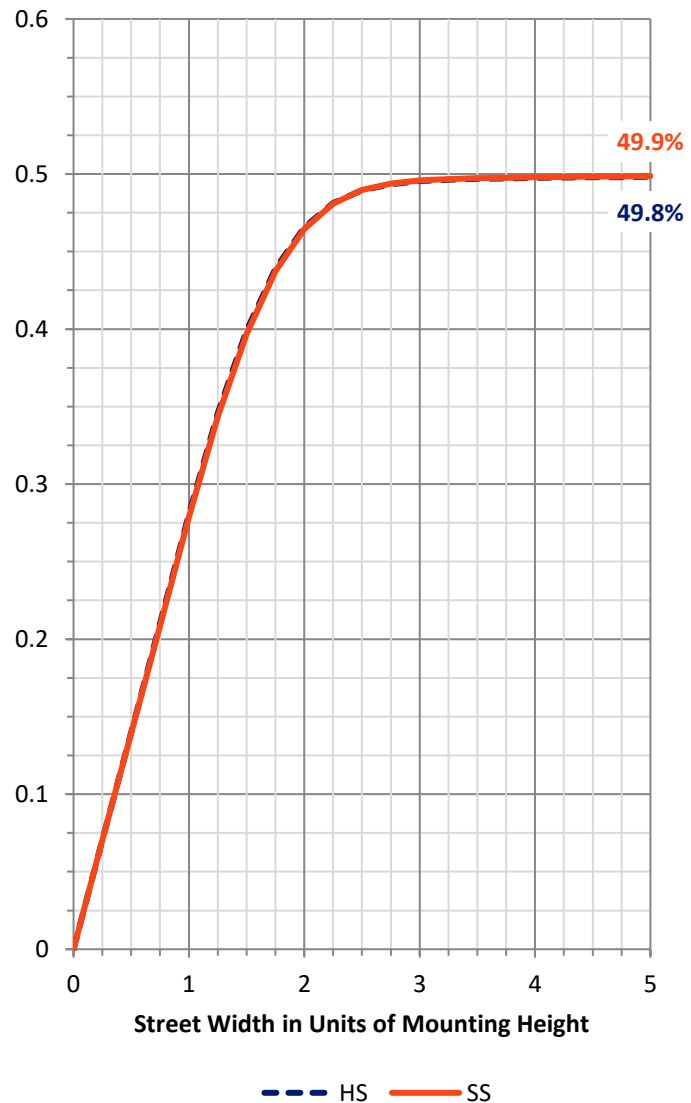
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	33759.5	0.0	33759.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	33759.5	0.0	33759.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	67519.0	0.0	67519.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.0	0.7
10°-20°	1454.9	2.2
20°-30°	3104.4	4.6
30°-40°	6761.6	10.0
40°-50°	13075.7	19.4
50°-60°	20764.6	30.8
60°-70°	18725.3	27.7
70°-80°	2930.9	4.3
80°-90°	257.6	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°	67519.0	100.0
0°-180°	67519.0	100.0



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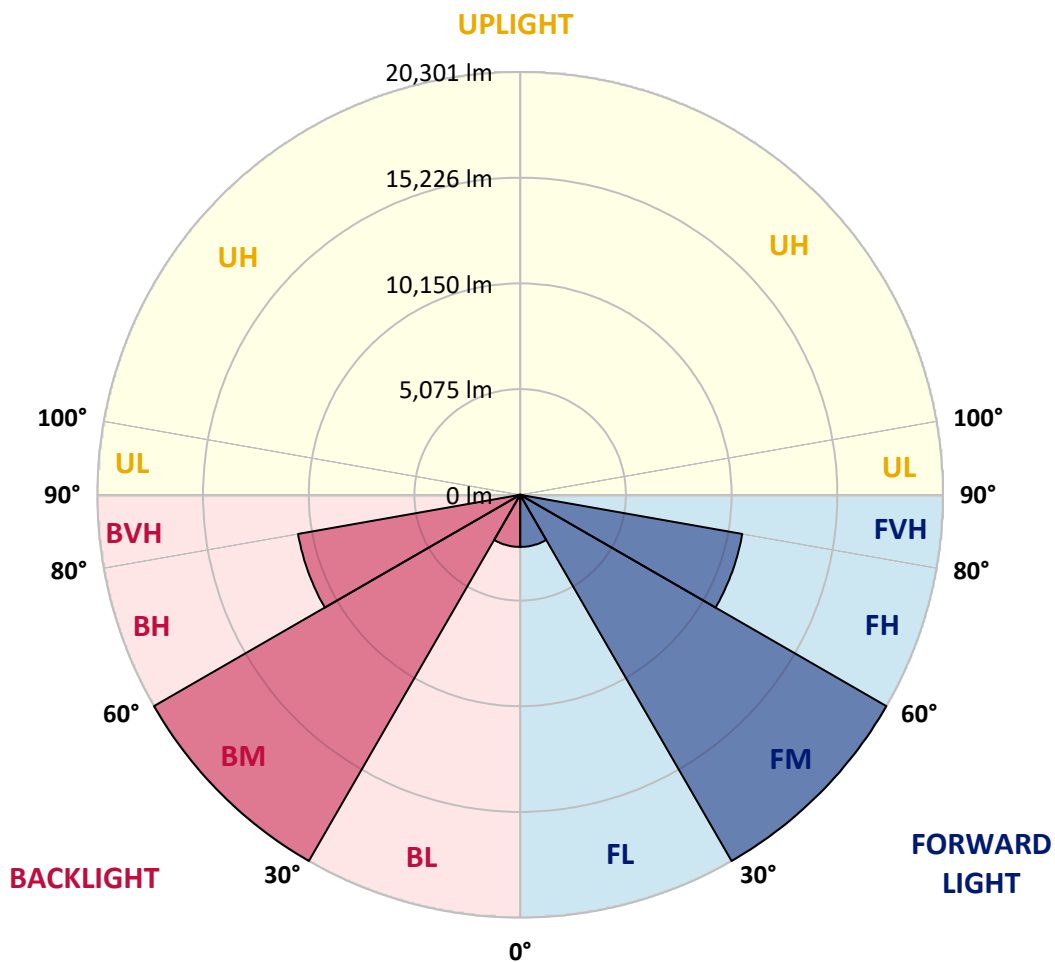
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2501.7	3.7			
FM (30°-60°)	20300.9	30.1			
FH (60°-80°)	10828.1	16.0			G4/12000
FVH (80°-90°)	128.8	0.2			G2/225
BL (0°-30°)	2501.7	3.7	B4/5000		
BM (30°-60°)	20300.9	30.1	B5		
BH (60°-80°)	10828.1	16.0	B5		G4/12000
BVH (80°-90°)	128.8	0.2			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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4545.0	4545.0	4545.0	4545.0	4545.0	4545.0	4545.0	4545.0	4545.0	4545.0	4545.0
2.5°	4576.3	4566.5	4574.4	4580.2	4511.8	4529.4	4527.4	4574.4	4564.6	4586.1	4597.8
5°	4607.6	4592.0	4601.7	4617.4	4552.9	4576.3	4576.3	4619.3	4603.7	4625.2	4646.7
7.5°	4664.3	4648.7	4660.4	4680.0	4619.3	4644.8	4646.7	4697.6	4676.1	4693.7	4726.9
10°	4758.2	4748.4	4752.3	4769.9	4713.2	4744.5	4744.5	4799.3	4775.8	4795.4	4836.4
12.5°	4867.7	4863.8	4867.7	4891.2	4838.4	4869.7	4869.7	4922.5	4906.8	4930.3	4969.4
15°	5012.4	5008.5	5010.5	5041.8	4998.8	5028.1	5034.0	5088.7	5084.8	5110.2	5145.4
17.5°	5217.8	5217.8	5215.8	5243.2	5215.8	5245.2	5256.9	5315.6	5339.0	5370.3	5391.8
20°	5530.7	5513.1	5503.3	5517.0	5495.5	5526.8	5546.3	5642.2	5681.3	5730.2	5747.8
22.5°	5939.4	5916.0	5884.7	5871.0	5841.7	5882.7	5921.8	6058.7	6115.5	6195.6	6215.2
25°	6502.7	6463.6	6404.9	6350.1	6283.6	6342.3	6414.7	6602.4	6719.8	6825.4	6841.0
27.5°	7273.2	7214.6	7124.6	7019.0	6901.6	6974.0	7079.6	7353.4	7513.8	7682.0	7707.4
30°	8266.7	8256.9	8116.1	7928.4	7771.9	7813.0	7944.0	8282.4	8536.6	8710.7	8759.5
32.5°	9592.7	9582.9	9346.3	9029.4	8806.5	8833.9	8955.1	9330.6	9647.4	9931.0	9940.8
35°	11172.9	11141.6	10809.1	10371.0	10013.1	9981.9	10101.2	10474.7	10906.9	11237.4	11270.7
37.5°	12978.0	12927.1	12543.8	11880.8	11327.4	11198.3	11282.4	11751.8	12252.4	12626.0	12663.1
40°	14745.9	14706.8	14280.5	13658.6	12848.9	12522.3	12528.2	13128.6	13678.1	14024.3	14100.5
42.5°	16449.3	16480.6	16071.9	15438.2	14591.4	14008.6	14016.5	14599.2	15168.4	15528.2	15627.9
45°	18197.7	18170.3	17787.0	17243.3	16463.0	15817.6	15598.6	16181.4	16746.6	17041.9	17149.5
47.5°	19629.3	19580.4	19322.2	19034.8	18455.9	17820.3	17435.0	17839.8	18229.0	18428.5	18538.0
50°	20877.0	20837.9	20812.5	20691.2	20562.2	20151.5	19517.8	19492.4	19576.5	19619.5	19719.3
52.5°	21933.1	21931.1	22068.0	22365.3	22684.1	22826.8	21729.7	21019.8	20730.3	20517.2	20554.3
55°	22729.1	22719.3	23108.5	23904.4	25030.9	25676.3	24057.0	22341.8	21579.1	21166.5	21162.6
57.5°	23137.8	23155.4	23945.5	25386.8	27475.5	28355.6	26294.3	23556.3	22249.9	21622.1	21614.3
60°	22058.3	22132.6	23681.5	26306.0	29636.6	30786.5	28126.8	23808.6	21522.4	20468.3	20440.9
61°	20888.8	21168.4	22633.2	26096.8	30321.1	31308.7	28214.8	23182.8	20450.7	19287.0	19261.6
62.5°	18317.0	18579.1	20820.3	25574.6	30274.1	30761.1	27714.1	22058.3	18768.8	17472.2	17419.4
65°	13290.9	13599.9	16013.2	22658.7	27520.5	27231.1	25208.9	19476.7	15739.4	14280.5	14214.0
67.5°	6682.6	7077.7	9786.3	16443.5	22359.4	22909.0	21522.4	15420.6	11155.3	8423.2	8415.3
70°	1726.9	1895.1	3528.1	8648.1	16124.7	17943.5	16410.2	8933.6	4337.7	2616.7	2454.4
72.5°	483.1	506.5	958.3	3150.6	9170.2	12021.6	8896.4	3123.2	977.8	557.4	510.4
75°	340.3	346.2	381.4	797.9	3463.5	5610.9	2867.0	674.7	391.1	369.6	369.6
77.5°	303.1	307.0	330.5	430.3	725.6	1261.4	549.5	436.1	344.2	332.5	328.6
80°	320.7	324.6	338.3	416.6	426.3	453.7	381.4	377.4	342.2	350.1	346.2
82.5°	344.2	352.0	369.6	426.3	365.7	367.7	312.9	311.0	303.1	344.2	346.2
85°	305.1	318.8	332.5	373.5	301.2	246.4	256.2	203.4	217.1	258.2	248.4
87.5°	170.1	168.2	162.3	170.1	152.5	123.2	103.7	93.9	86.1	97.8	95.8
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)