

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: P232772

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232772  
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  
Description: CELESTEON HIGH MAST LUMINAIRE  
(8) 70 CRI, 4000K LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 69384 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

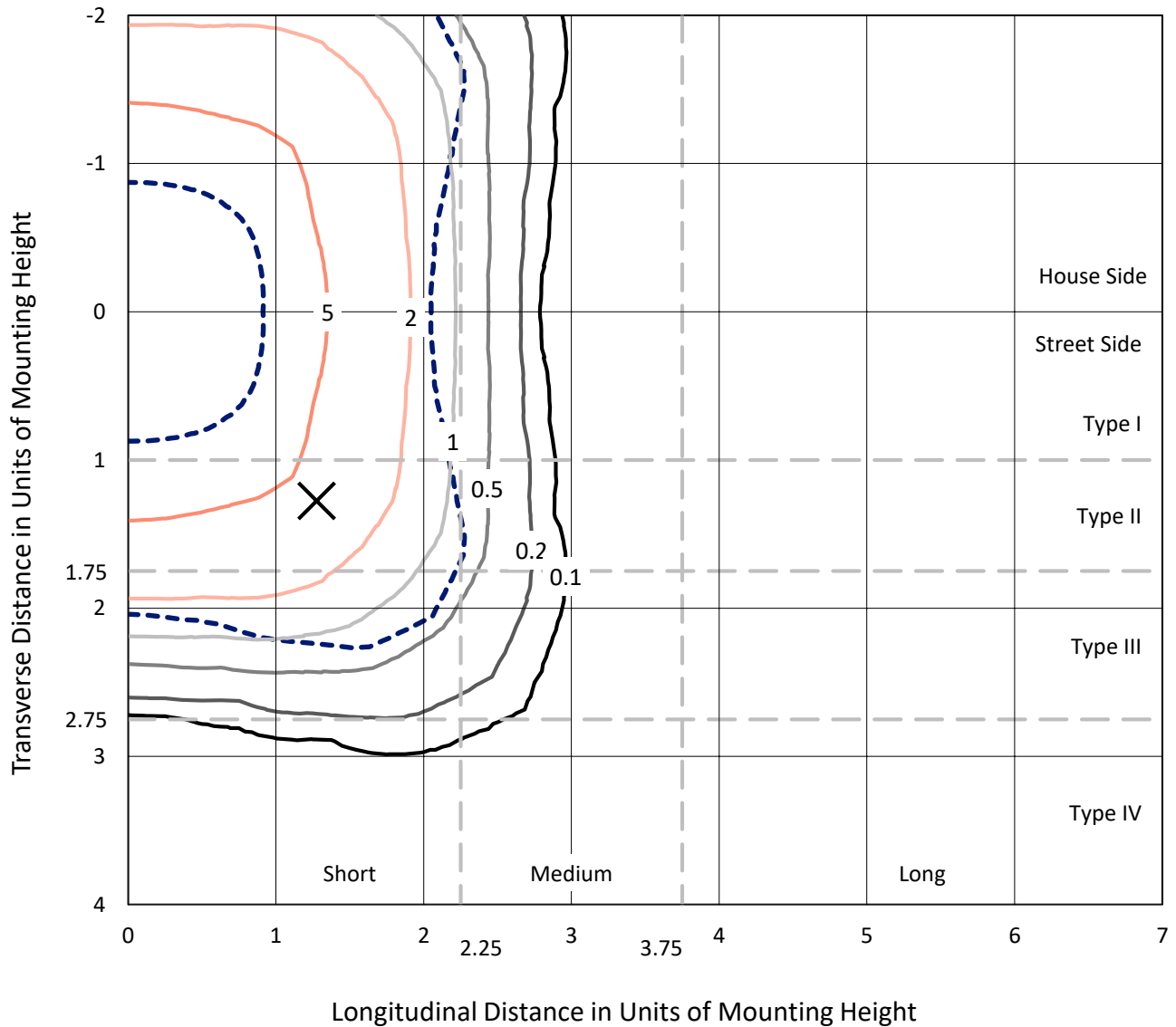
Input Watts (W): 477  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P232772  
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### Iso-Footcandle Lines of Horizontal Illumination

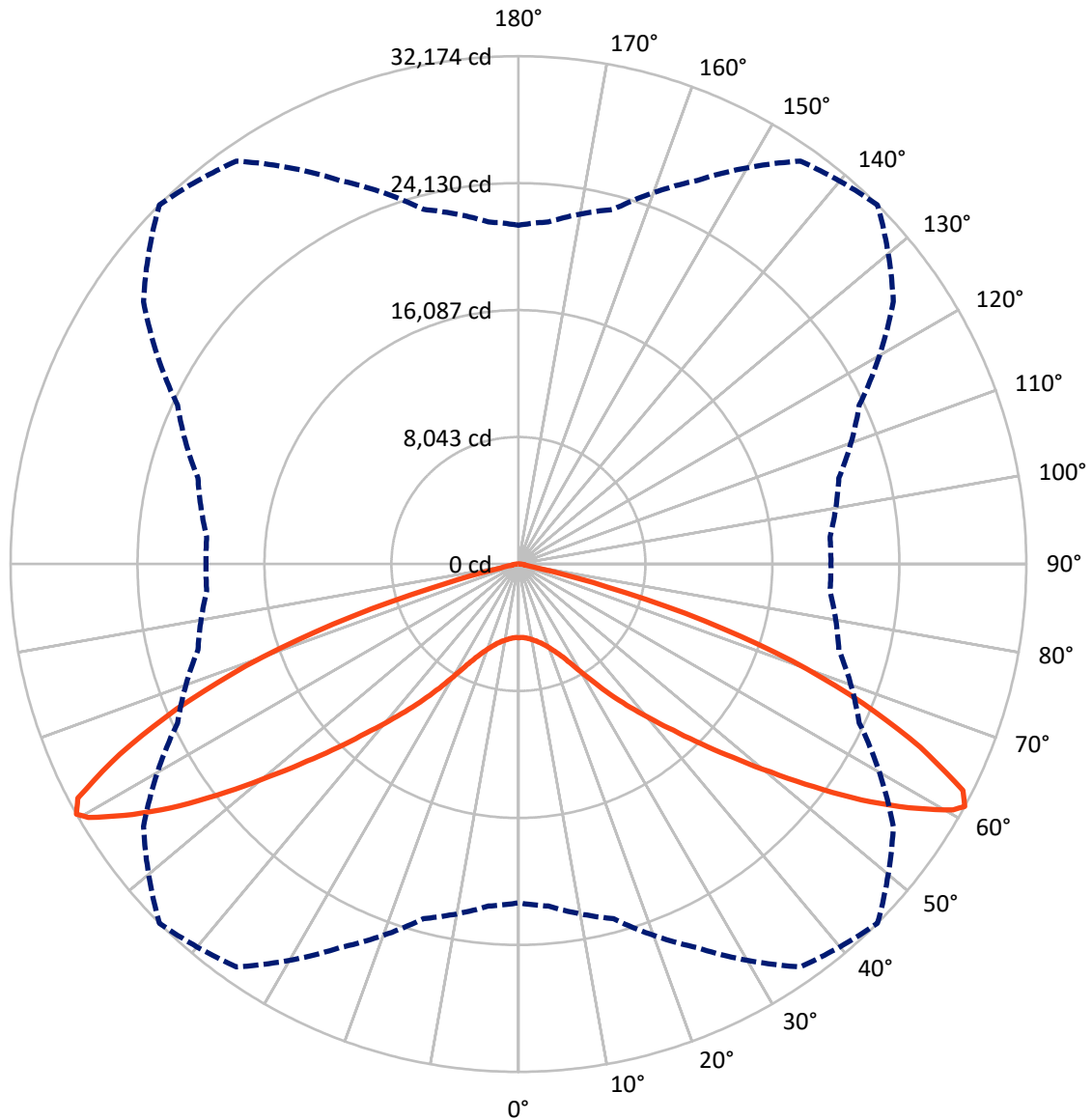
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P232772  
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### Luminous Intensity Polar Plot



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

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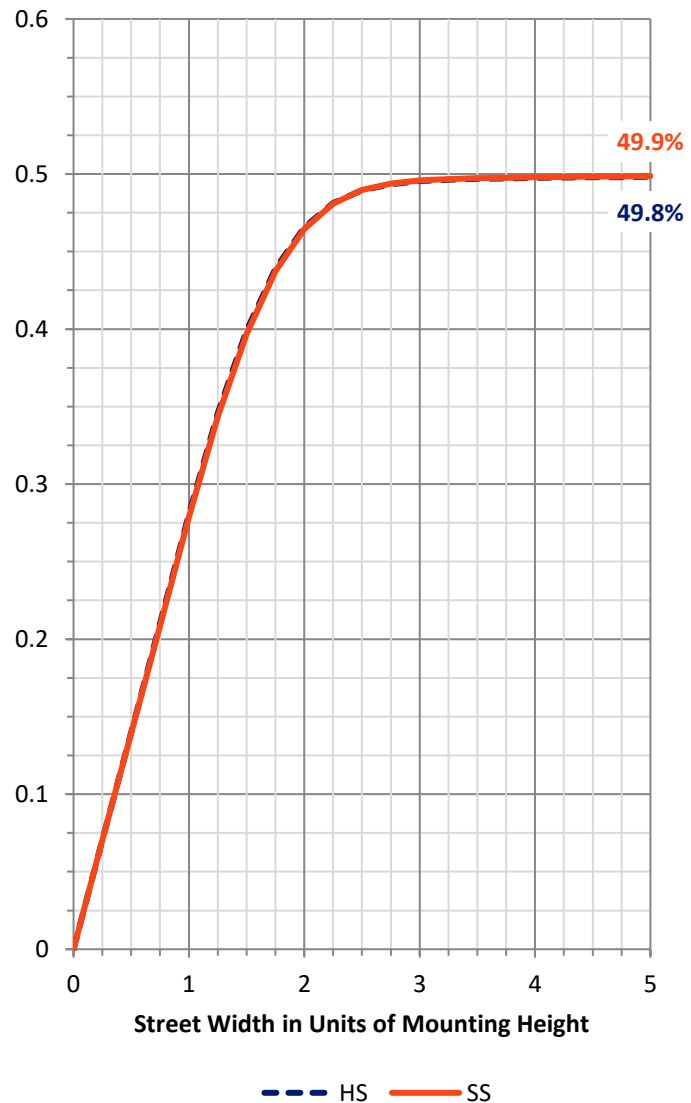
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	34692.0	0.0	34692.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	34692.0	0.0	34692.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	69384.0	0.0	69384.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.3	0.7
10°-20°	1495.1	2.2
20°-30°	3190.1	4.6
30°-40°	6948.4	10.0
40°-50°	13436.9	19.4
50°-60°	21338.2	30.8
60°-70°	19242.5	27.7
70°-80°	3011.9	4.3
80°-90°	264.7	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°	69384.0	100.0
0°-180°	69384.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P232772

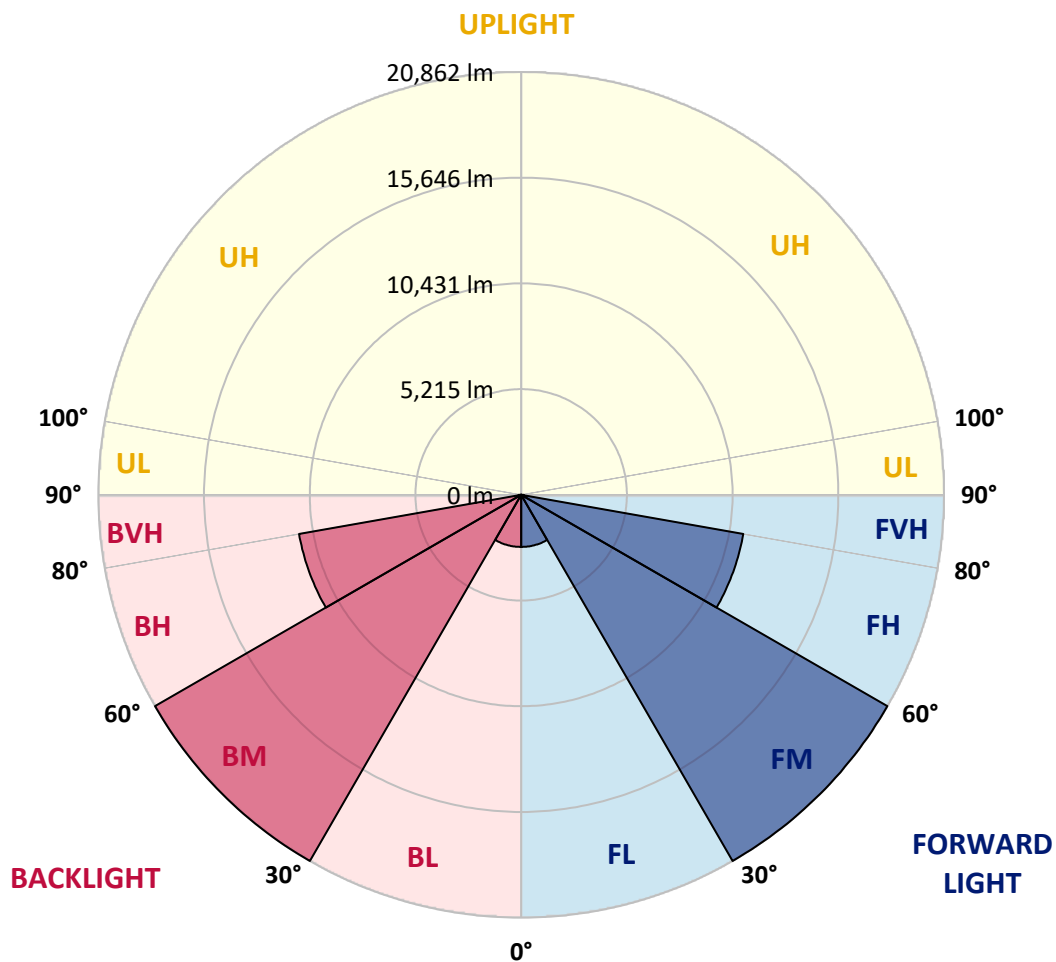
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2570.8	3.7			
FM	(30°-60°)	20861.7	30.1			
FH	(60°-80°)	11127.2	16.0			G4/12000
FVH	(80°-90°)	132.3	0.2			G2/225
BL	(0°-30°)	2570.8	3.7	B4/5000		
BM	(30°-60°)	20861.7	30.1	B5		
BH	(60°-80°)	11127.2	16.0	B5		G4/12000
BVH	(80°-90°)	132.3	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°	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6
2.5°	4702.7	4692.7	4700.7	4706.7	4636.4	4654.5	4652.5	4700.7	4690.7	4712.8	4724.8
5°	4734.9	4718.8	4728.9	4744.9	4678.6	4702.7	4702.7	4746.9	4730.9	4753.0	4775.1
7.5°	4793.2	4777.1	4789.1	4809.2	4746.9	4773.1	4775.1	4827.3	4805.2	4823.3	4857.5
10°	4889.6	4879.6	4883.6	4901.7	4843.4	4875.6	4875.6	4931.8	4907.7	4927.8	4970.0
12.5°	5002.2	4998.2	5002.2	5026.3	4972.0	5004.2	5004.2	5058.4	5042.4	5066.5	5106.7
15°	5150.9	5146.9	5148.9	5181.0	5136.8	5167.0	5173.0	5229.3	5225.3	5251.4	5287.6
17.5°	5361.9	5361.9	5359.9	5388.0	5359.9	5390.0	5402.1	5462.4	5486.5	5518.7	5540.8
20°	5683.5	5665.4	5655.3	5669.4	5647.3	5679.4	5699.5	5798.0	5838.2	5888.5	5906.5
22.5°	6103.5	6079.4	6047.2	6033.2	6003.0	6045.2	6085.4	6226.1	6284.4	6366.8	6386.9
25°	6682.3	6642.1	6581.8	6525.5	6457.2	6517.5	6591.9	6784.8	6905.4	7013.9	7030.0
27.5°	7474.1	7413.8	7321.4	7212.9	7092.3	7166.6	7275.2	7556.5	7721.3	7894.2	7920.3
30°	8495.1	8485.0	8340.3	8147.4	7986.6	8028.8	8163.5	8511.1	8772.4	8951.3	9001.5
32.5°	9857.6	9847.6	9604.4	9278.8	9049.7	9077.9	9202.5	9588.3	9913.9	10205.3	10215.4
35°	11481.5	11449.3	11107.7	10657.5	10289.7	10257.6	10380.2	10764.0	11208.2	11547.8	11582.0
37.5°	13336.5	13284.2	12890.3	12209.0	11640.3	11507.6	11594.0	12076.4	12590.9	12974.7	13012.9
40°	15153.2	15113.0	14674.9	14035.8	13203.8	12868.2	12874.2	13491.2	14055.9	14411.7	14490.0
42.5°	16903.7	16935.8	16515.8	15864.7	14994.5	14395.6	14403.6	15002.5	15587.3	15957.1	16059.6
45°	18700.4	18672.2	18278.3	17719.6	16917.8	16254.6	16029.5	16628.4	17209.2	17512.6	17623.2
47.5°	20171.5	20121.2	19856.0	19560.5	18965.7	18312.5	17916.6	18332.6	18732.5	18937.5	19050.1
50°	21453.7	21413.5	21387.4	21262.8	21130.1	20708.1	20056.9	20030.8	20117.2	20161.4	20263.9
52.5°	22538.9	22536.9	22677.6	22983.1	23310.7	23457.4	22329.9	21600.4	21303.0	21083.9	21122.1
55°	23356.9	23346.8	23746.8	24564.7	25722.3	26385.5	24721.5	22959.0	22175.2	21751.1	21747.1
57.5°	23776.9	23795.0	24606.9	26088.1	28234.5	29138.8	27020.6	24207.0	22864.5	22219.4	22211.3
60°	22667.6	22743.9	24335.6	27032.6	30455.2	31636.9	28903.7	24466.2	22116.9	21033.7	21005.5
61°	21465.7	21753.1	23258.4	26817.6	31158.6	32173.5	28994.1	23823.1	21015.6	19819.8	19793.7
62.5°	18823.0	19092.3	21395.4	26281.0	31110.4	31610.8	28479.6	22667.6	19287.2	17954.8	17900.5
65°	13658.0	13975.5	16455.5	23284.5	28280.7	27983.2	25905.2	20014.7	16174.2	14674.9	14606.6
67.5°	6867.2	7273.2	10056.6	16897.7	22977.0	23541.8	22116.9	15846.6	11463.4	8655.8	8647.8
70°	1774.6	1947.4	3625.5	8886.9	16570.1	18439.1	16863.5	9180.4	4457.5	2689.0	2522.2
72.5°	496.4	520.5	984.8	3237.6	9423.5	12353.7	9142.2	3209.5	1004.9	572.8	524.5
75°	349.7	355.7	391.9	820.0	3559.2	5765.9	2946.2	693.4	401.9	379.8	379.8
77.5°	311.5	315.5	339.6	442.1	745.6	1296.3	564.7	448.2	353.7	341.7	337.6
80°	329.6	333.6	347.7	428.1	438.1	466.3	391.9	387.9	351.7	359.7	355.7
82.5°	353.7	361.7	379.8	438.1	375.8	377.8	321.6	319.5	311.5	353.7	355.7
85°	313.5	327.6	341.7	383.9	309.5	253.2	263.3	209.0	223.1	265.3	255.2
87.5°	174.8	172.8	166.8	174.8	156.8	126.6	106.5	96.5	88.4	100.5	98.5
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)