

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: P233963

Luminaire Tested: **CTN-10-3-D-E1-T1-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-24)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: CTN-10-3-D-E1-T1-7030  
Description: CELESTEON HIGH MAST LUMINAIRE  
(10) 70 CRI, 3000K LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32946 lumens  
Efficiency: N/A  
Efficacy: 155.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G5

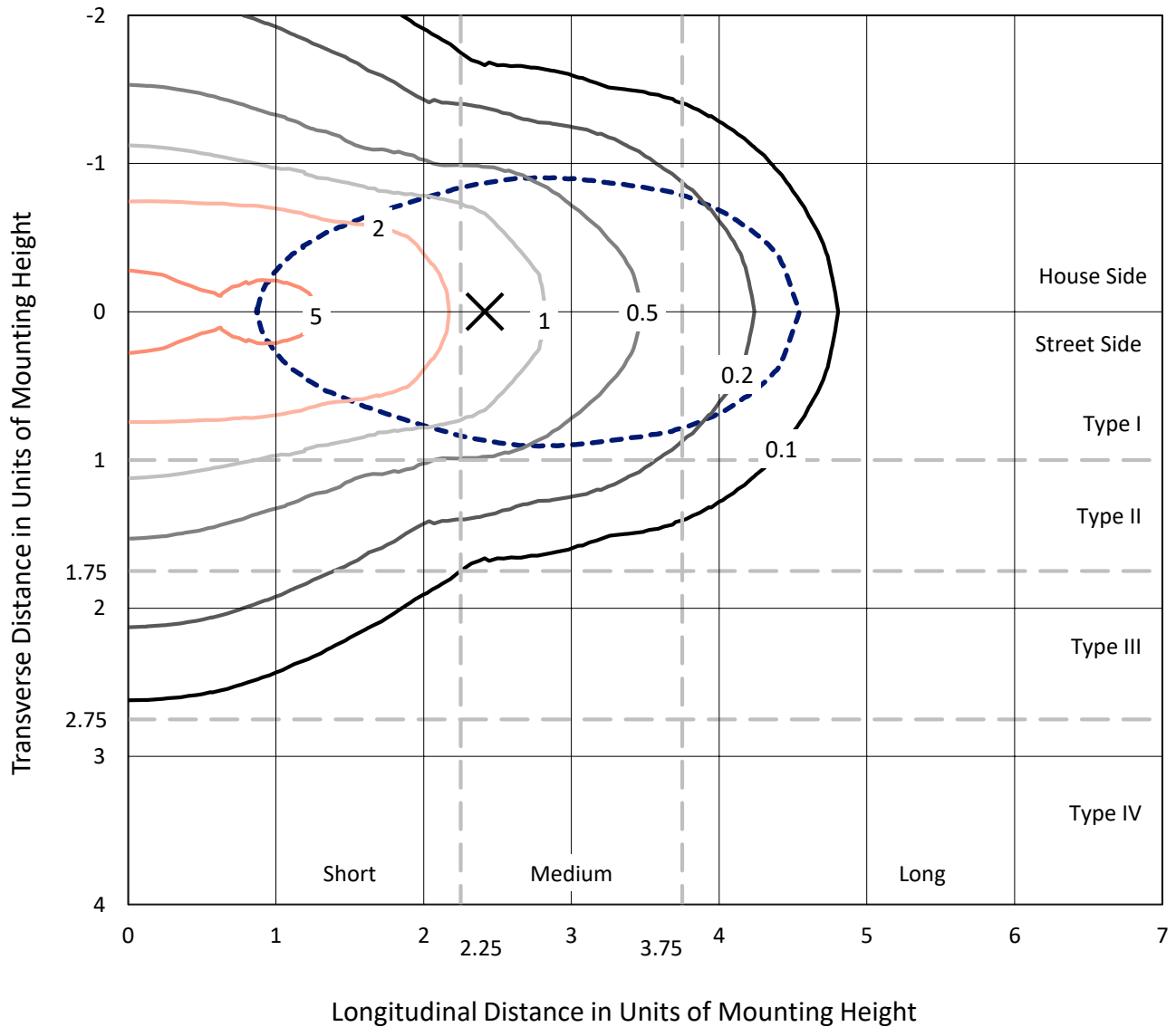
Input Watts (W): 212  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

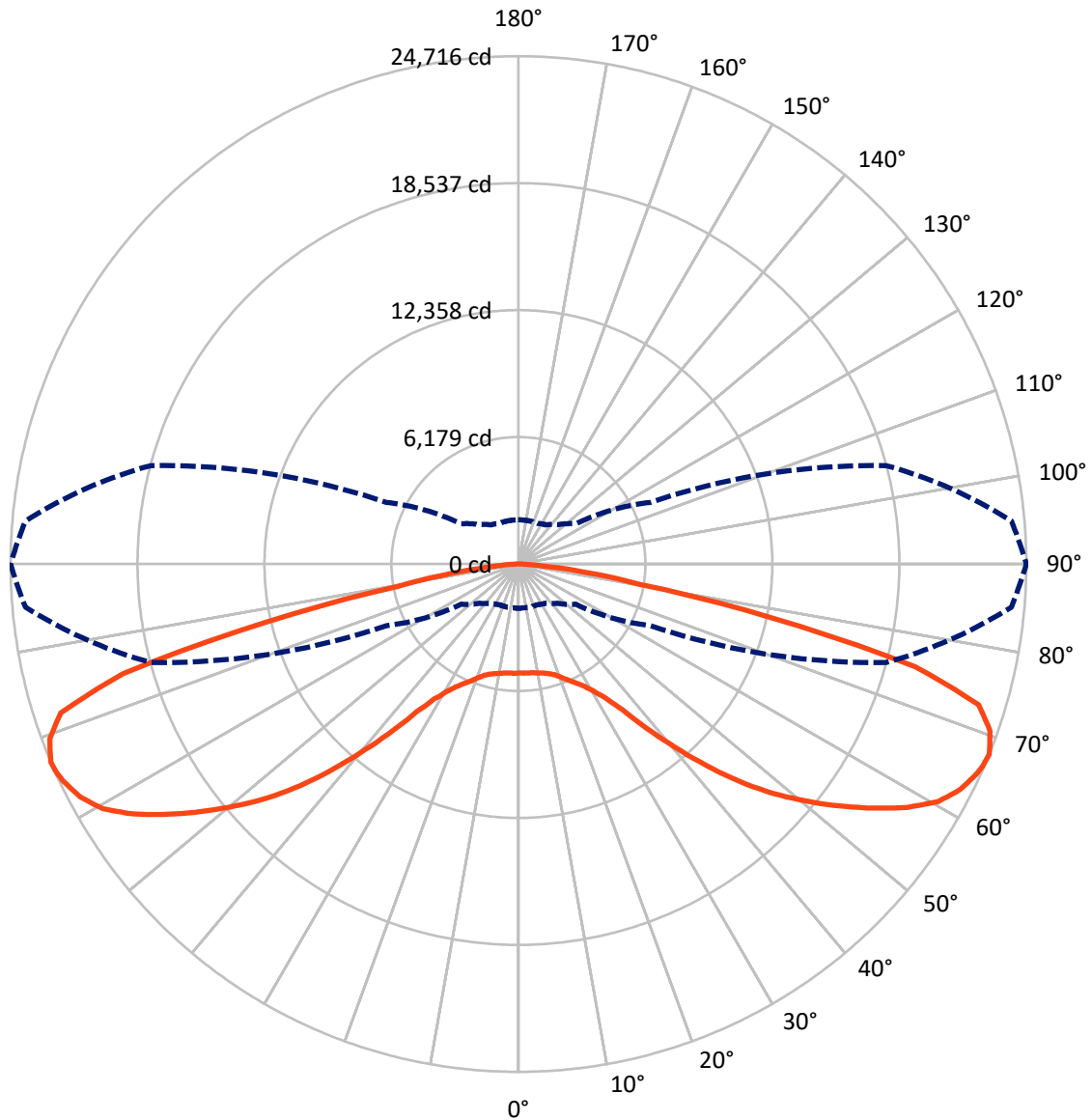
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc  
 Type I - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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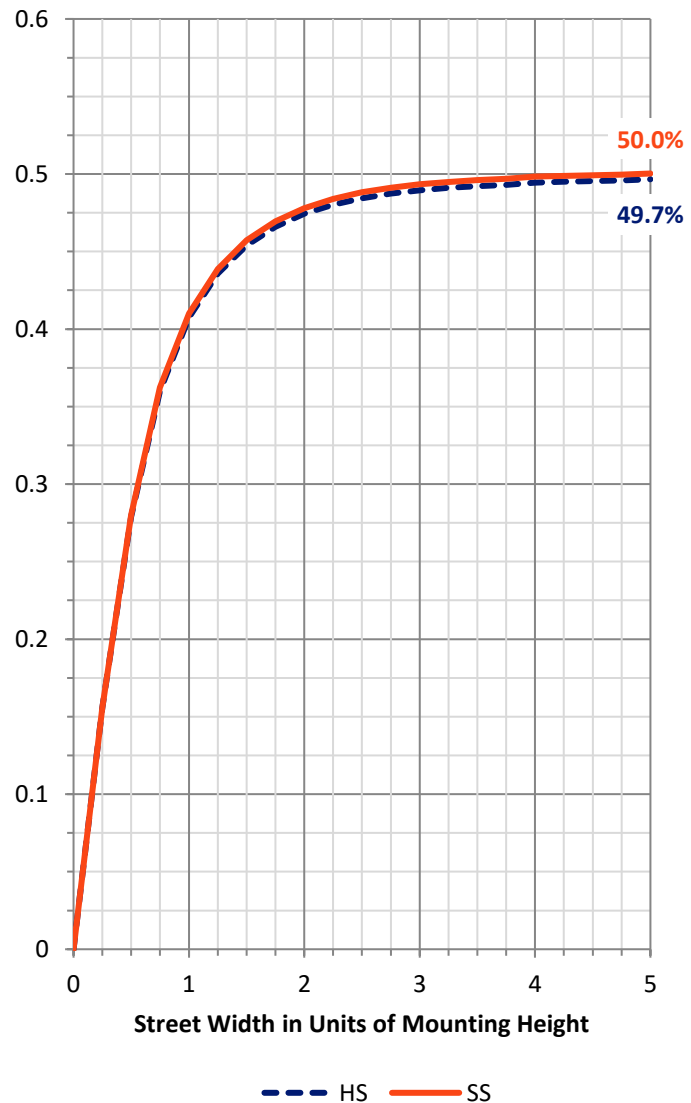
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16473.0	0.0	16473.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16473.0	0.0	16473.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32946.0	0.0	32946.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.3	1.5
10°-20°	1500.3	4.6
20°-30°	2482.5	7.5
30°-40°	3637.3	11.0
40°-50°	5351.2	16.2
50°-60°	6939.2	21.1
60°-70°	7374.9	22.4
70°-80°	4552.5	13.8
80°-90°	603.9	1.8
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°	32946.0	100.0
0°-180°	32946.0	100.0



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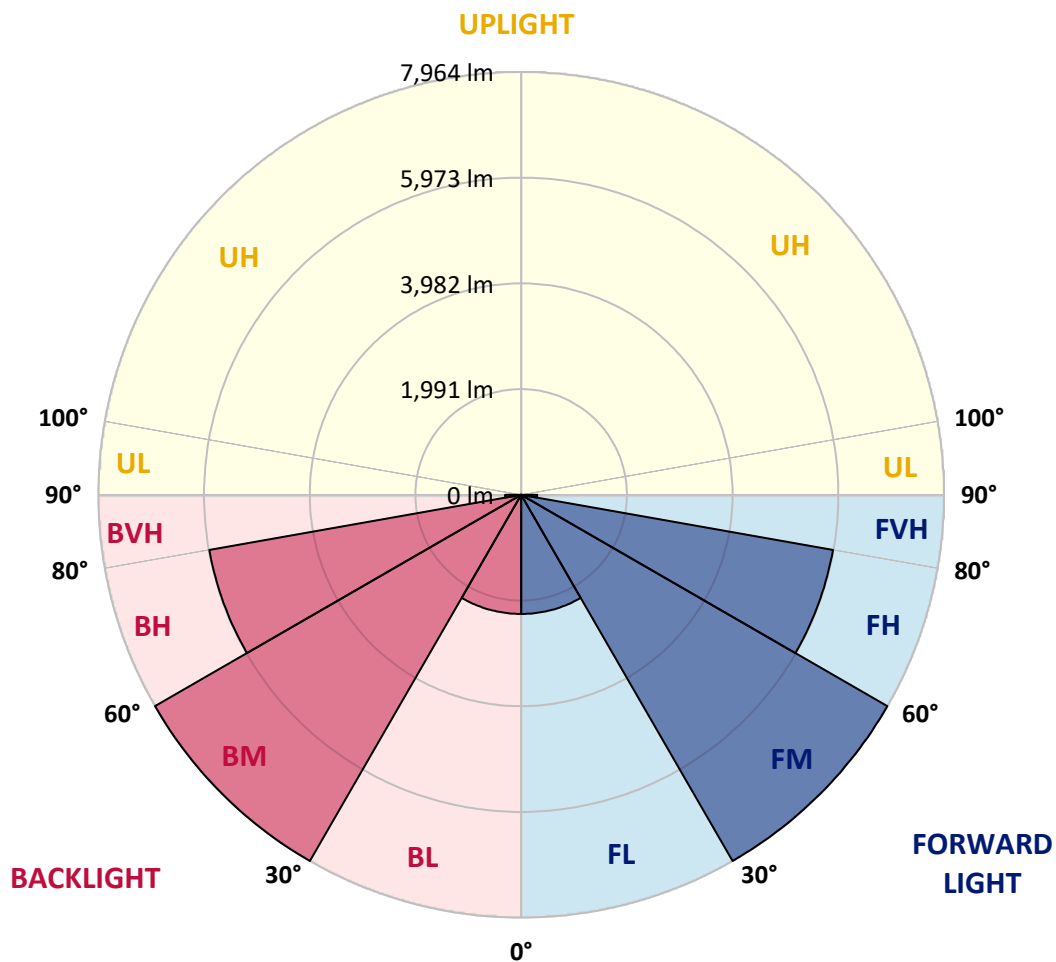
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2243.5	6.8			
FM	(30°-60°)	7963.8	24.2			
FH	(60°-80°)	5963.7	18.1			G3/7500
FVH	(80°-90°)	301.9	0.9			G3/500
BL	(0°-30°)	2243.5	6.8	B3/2500		
BM	(30°-60°)	7963.8	24.2	B4/8500		
BH	(60°-80°)	5963.7	18.1	B5		G5
BVH	(80°-90°)	301.9	0.9			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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5305.7	5305.7	5305.7	5305.7	5305.7	5305.7	5305.7	5305.7	5305.7	5305.7	5305.7
2.5°	5320.5	5303.7	5310.6	5335.3	5245.5	5289.9	5274.1	5313.6	5292.9	5310.6	5319.5
5°	5283.0	5262.3	5272.1	5318.5	5236.6	5282.0	5270.2	5314.6	5287.9	5312.6	5322.5
7.5°	5250.4	5228.7	5246.5	5285.0	5222.8	5273.1	5263.3	5323.5	5301.8	5333.3	5343.2
10°	5229.7	5206.0	5222.8	5265.2	5199.1	5278.1	5269.2	5349.1	5338.3	5381.7	5393.6
12.5°	5178.4	5153.7	5165.5	5221.8	5192.2	5274.1	5295.8	5387.6	5384.7	5437.0	5449.8
15°	5086.6	5061.9	5077.7	5152.7	5163.6	5277.1	5344.2	5452.8	5470.6	5522.9	5533.7
17.5°	4971.1	4953.3	4977.0	5076.7	5144.8	5317.6	5414.3	5552.5	5595.9	5649.2	5664.0
20°	4813.1	4803.3	4845.7	4981.9	5112.2	5347.2	5498.2	5692.7	5771.6	5858.5	5869.3
22.5°	4598.0	4586.1	4674.9	4866.4	5054.0	5354.1	5580.1	5837.8	5983.9	6095.4	6124.0
25°	4356.1	4352.2	4473.6	4725.3	4975.0	5349.1	5660.1	5992.7	6215.8	6362.9	6394.5
27.5°	4118.2	4130.1	4277.1	4574.3	4909.9	5360.0	5751.9	6191.1	6506.0	6689.6	6703.5
30°	3915.9	3925.7	4084.7	4425.2	4847.7	5372.8	5865.4	6428.1	6867.3	7115.1	7155.6
32.5°	3725.3	3748.1	3909.9	4263.3	4778.6	5397.5	6012.5	6737.0	7310.5	7701.4	7751.8
35°	3568.4	3588.1	3746.1	4098.5	4669.0	5417.3	6206.9	7127.9	7970.9	8621.4	8699.4
37.5°	3429.2	3452.9	3589.1	3946.5	4538.7	5424.2	6400.4	7609.6	8865.2	9900.7	10143.5
40°	3328.5	3347.3	3464.8	3794.4	4398.6	5392.6	6621.5	8148.6	9870.1	11427.8	11694.3
42.5°	3245.6	3261.4	3358.1	3645.4	4240.6	5330.4	6827.8	8685.6	10932.2	13045.6	13393.1
45°	3161.7	3165.7	3258.4	3517.1	4080.7	5231.7	6982.8	9199.9	12050.6	14696.1	15102.8
47.5°	3086.7	3081.8	3154.8	3390.7	3909.0	5065.8	7043.0	9626.3	13137.4	16242.9	16687.1
50°	3016.6	2995.9	3059.0	3270.3	3742.1	4827.9	6967.0	9921.4	14280.5	17737.4	18131.2
52.5°	2912.0	2902.1	2962.3	3151.8	3575.3	4543.7	6716.3	10077.4	15499.6	19152.9	19564.5
55°	2818.2	2811.3	2873.5	3031.4	3411.4	4254.4	6283.9	10034.9	16700.9	20518.0	20974.1
57.5°	2714.5	2709.6	2767.9	2900.1	3230.8	3985.9	5748.9	9760.5	17773.9	21696.6	22341.2
60°	2612.9	2615.8	2653.3	2766.9	3047.2	3689.8	5138.9	9282.8	18629.7	22763.7	23467.5
62.5°	2494.4	2491.5	2519.1	2613.9	2837.0	3370.0	4537.7	8620.4	19131.2	23695.5	24145.7
65°	2334.5	2323.7	2355.2	2415.5	2582.3	3042.3	3945.5	7818.9	19144.0	24158.5	24541.5
66°	2266.4	2254.6	2283.2	2325.6	2482.6	2910.0	3727.3	7479.3	18947.5	24172.3	24648.1
67.5°	2160.8	2147.0	2165.7	2185.5	2326.6	2698.8	3407.5	7094.3	18517.2	24085.4	24716.2
70°	1898.2	1900.2	1919.9	1913.0	1985.1	2228.9	2814.2	6379.7	16441.3	23734.0	24351.0
72.5°	1477.7	1460.9	1432.3	1404.7	1439.2	1653.4	2131.2	5354.1	13463.2	22218.8	23418.2
75°	953.5	950.6	949.6	983.2	988.1	1133.2	1646.5	4319.6	10494.9	18233.9	19960.3
77.5°	596.2	591.3	633.7	715.7	728.5	732.4	1079.9	3283.1	7586.9	11667.6	12572.8
80°	427.4	427.4	430.4	441.2	510.3	521.2	746.3	2061.1	4314.7	5687.7	5976.0
82.5°	323.8	318.8	319.8	324.8	330.7	355.4	449.1	915.0	1723.5	2882.4	3261.4
85°	233.9	240.9	252.7	243.8	220.1	223.1	254.7	314.9	662.3	1116.4	1207.2
87.5°	84.9	97.7	100.7	104.6	100.7	101.7	104.6	98.7	134.2	275.4	317.8
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)