

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: P233966

Luminaire Tested: **CTN-8-6-D-E1-T1-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233966
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-8-6-D-E1-T1-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 3000K LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65274 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

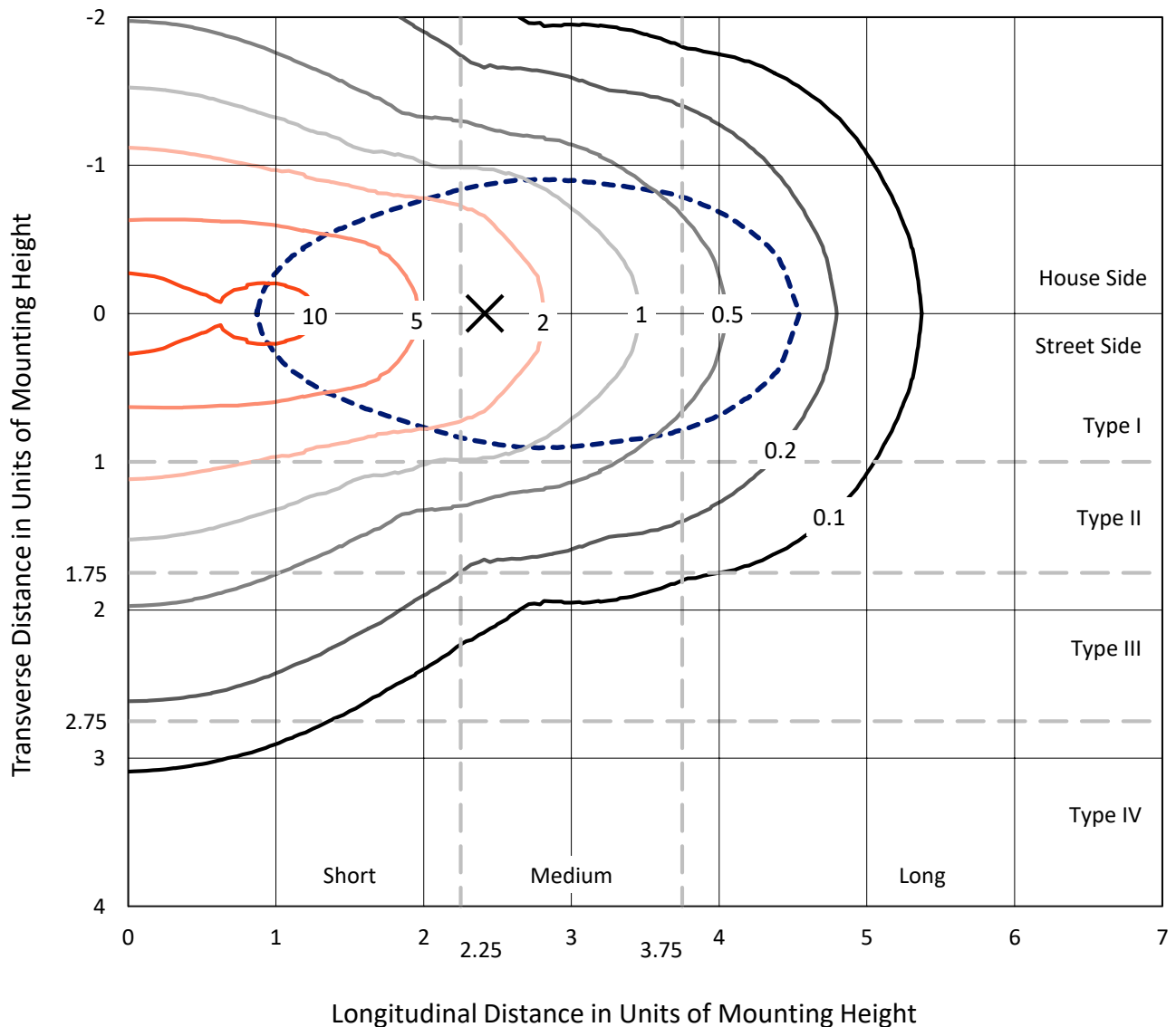
Input Watts (W): 477
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

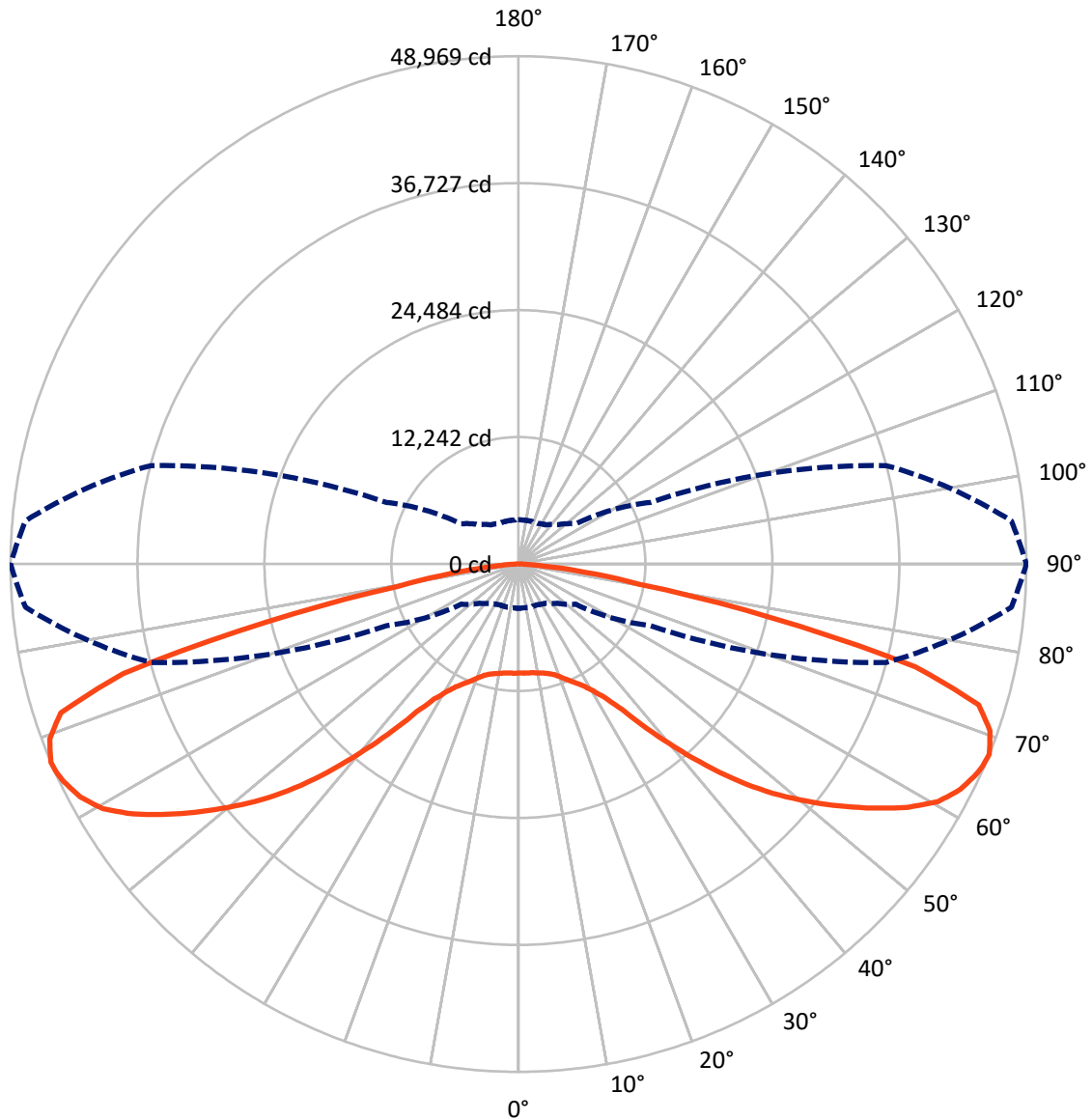
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 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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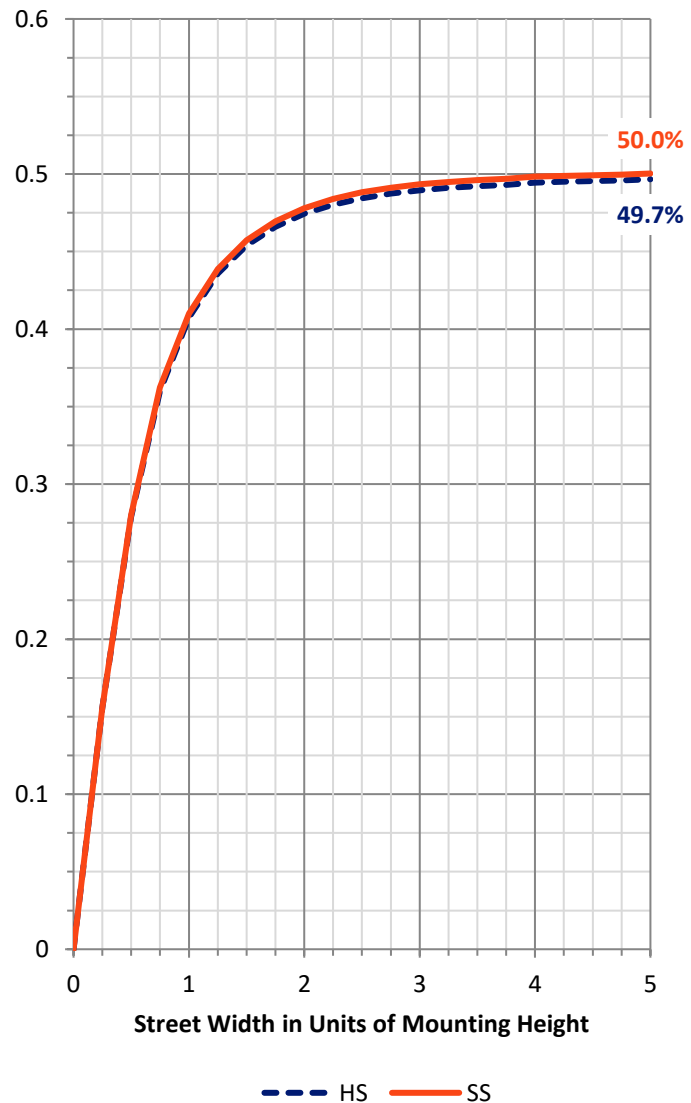
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32637.0	0.0	32637.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32637.0	0.0	32637.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	65274.0	0.0	65274.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.1	1.5
10°-20°	2972.5	4.6
20°-30°	4918.5	7.5
30°-40°	7206.3	11.0
40°-50°	10601.9	16.2
50°-60°	13748.2	21.1
60°-70°	14611.4	22.4
70°-80°	9019.7	13.8
80°-90°	1196.4	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°	65274.0	100.0
0°-180°	65274.0	100.0



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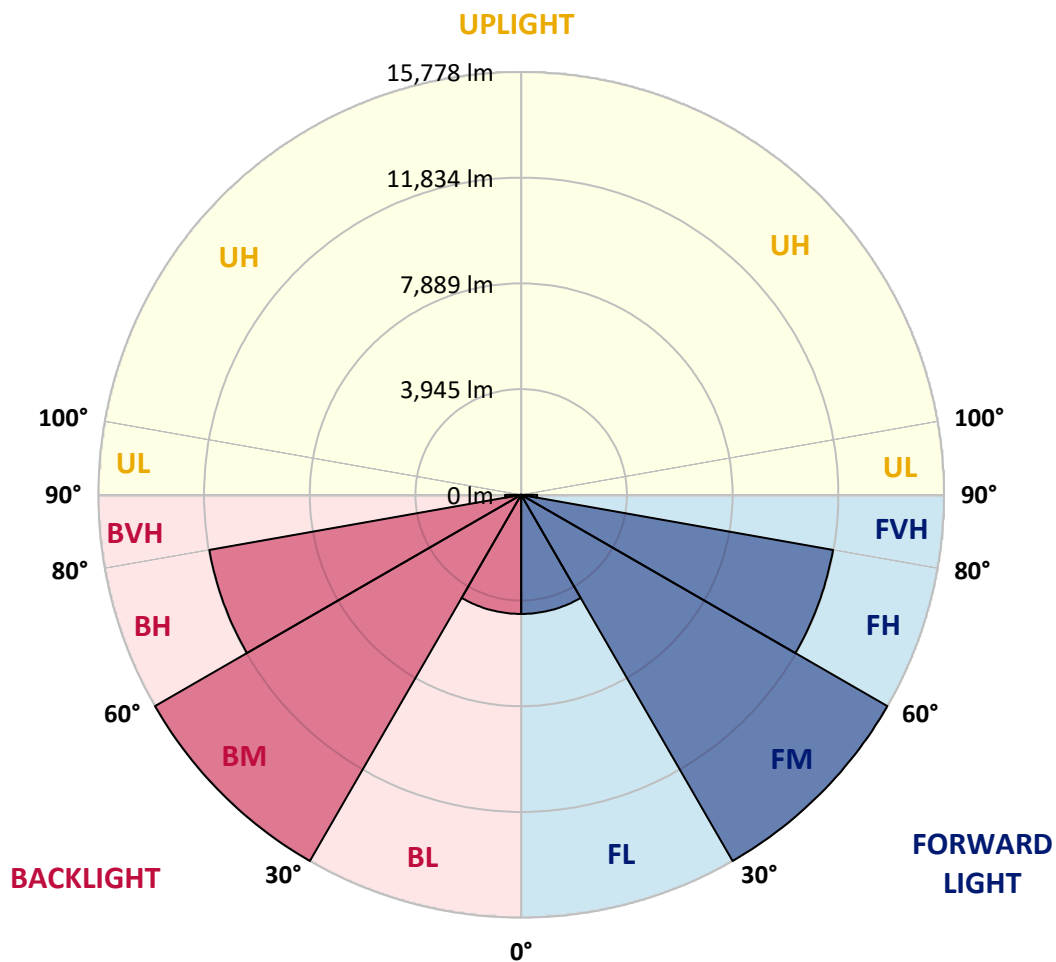
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4445.0	6.8			
FM	(30°-60°)	15778.2	24.2			
FH	(60°-80°)	11815.6	18.1			G4/12000
FVH	(80°-90°)	598.2	0.9			G4/750
BL	(0°-30°)	4445.0	6.8	B4/5000		
BM	(30°-60°)	15778.2	24.2	B5		
BH	(60°-80°)	11815.6	18.1	B5		G5
BVH	(80°-90°)	598.2	0.9			G4/750
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°	10511.9	10511.9	10511.9	10511.9	10511.9	10511.9	10511.9	10511.9	10511.9	10511.9	10511.9
2.5°	10541.2	10508.0	10521.7	10570.6	10392.6	10480.6	10449.3	10527.5	10486.5	10521.7	10539.3
5°	10466.9	10425.8	10445.4	10537.3	10375.0	10465.0	10441.5	10529.5	10476.7	10525.6	10545.1
7.5°	10402.4	10359.3	10394.6	10470.8	10347.6	10447.4	10427.8	10547.1	10504.1	10566.7	10586.2
10°	10361.3	10314.4	10347.6	10431.7	10300.7	10457.1	10439.5	10597.9	10576.4	10662.5	10686.0
12.5°	10259.6	10210.7	10234.2	10345.7	10287.0	10449.3	10492.3	10674.2	10668.3	10772.0	10797.4
15°	10077.7	10028.8	10060.1	10208.8	10230.3	10455.2	10588.2	10803.3	10838.5	10942.1	10963.7
17.5°	9848.9	9813.7	9860.6	10058.2	10193.1	10535.4	10727.0	11000.8	11086.9	11192.5	11221.8
20°	9536.0	9516.4	9600.5	9870.4	10128.6	10594.0	10893.3	11278.5	11435.0	11607.1	11628.6
22.5°	9109.7	9086.2	9262.2	9641.6	10013.2	10607.7	11055.6	11566.0	11855.5	12076.5	12133.2
25°	8630.5	8622.7	8863.2	9361.9	9856.7	10597.9	11214.0	11873.1	12315.0	12606.4	12669.0
27.5°	8159.2	8182.7	8474.1	9062.7	9727.7	10619.5	11395.9	12266.2	12890.0	13253.8	13281.2
30°	7758.3	7777.8	8092.7	8767.4	9604.4	10644.9	11620.8	12735.5	13605.8	14096.7	14176.9
32.5°	7380.8	7425.8	7746.5	8446.7	9467.5	10693.8	11912.2	13347.7	14483.9	15258.4	15358.1
35°	7069.9	7109.0	7421.9	8120.1	9250.5	10732.9	12297.4	14122.1	15792.3	17081.1	17235.6
37.5°	6794.1	6841.0	7110.9	7818.9	8992.3	10746.6	12680.8	15076.5	17564.2	19615.7	20096.8
40°	6594.6	6631.8	6864.5	7517.7	8714.6	10684.0	13118.8	16144.3	19555.1	22641.2	23169.2
42.5°	6430.3	6461.6	6653.3	7222.4	8401.7	10560.8	13527.6	17208.2	21659.4	25846.5	26535.0
45°	6264.1	6271.9	6455.8	6968.2	8084.9	10365.2	13834.6	18227.1	23875.2	29116.5	29922.2
47.5°	6115.5	6105.7	6250.4	6717.8	7744.6	10036.7	13953.9	19072.0	26028.4	32181.1	33061.1
50°	5976.6	5935.6	6060.7	6479.2	7414.1	9565.3	13803.3	19656.8	28293.1	35142.0	35922.3
52.5°	5769.3	5749.8	5869.1	6244.6	7083.5	9002.1	13306.6	19965.8	30708.4	37946.5	38762.0
55°	5583.5	5569.8	5693.0	6006.0	6758.9	8429.1	12450.0	19881.7	33088.5	40651.2	41554.7
57.5°	5378.2	5368.4	5483.8	5745.8	6401.0	7897.1	11390.0	19338.0	35214.4	42986.3	44263.4
60°	5176.7	5182.6	5256.9	5481.8	6037.2	7310.4	10181.4	18391.4	36909.9	45100.4	46494.8
62.5°	4942.1	4936.2	4990.9	5178.7	5620.7	6676.8	8990.4	17079.1	37903.4	46946.6	47838.4
65°	4625.2	4603.7	4666.3	4785.6	5116.1	6027.5	7816.9	15491.1	37928.9	47863.8	48622.6
66°	4490.3	4466.8	4523.5	4607.6	4918.6	5765.4	7384.7	14818.3	37539.7	47891.2	48833.9
67.5°	4281.0	4253.6	4290.8	4329.9	4609.6	5346.9	6751.1	14055.6	36687.0	47719.1	48968.8
70°	3760.8	3764.7	3803.8	3790.1	3932.9	4416.0	5575.7	12639.7	32574.2	47022.9	48245.2
72.5°	2927.7	2894.4	2837.7	2783.0	2851.4	3275.8	4222.4	10607.7	26673.8	44020.9	46397.1
75°	1889.2	1883.3	1881.4	1947.9	1957.7	2245.1	3262.1	8558.1	20793.0	36125.7	39546.2
77.5°	1181.2	1171.5	1255.6	1417.9	1443.3	1451.1	2139.5	6504.7	15031.5	23116.4	24909.8
80°	846.8	846.8	852.7	874.2	1011.1	1032.6	1478.5	4083.5	8548.4	11268.7	11839.8
82.5°	641.5	631.7	633.6	643.4	655.2	704.1	889.8	1812.9	3414.7	5710.6	6461.6
85°	463.5	477.2	500.7	483.1	436.1	442.0	504.6	623.9	1312.3	2211.9	2391.8
87.5°	168.2	193.6	199.5	207.3	199.5	201.4	207.3	195.6	266.0	545.6	629.7
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)