

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: P233961

Luminaire Tested: **CTN-6-3-D-E1-T1-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233961
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-6-3-D-E1-T1-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32479 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

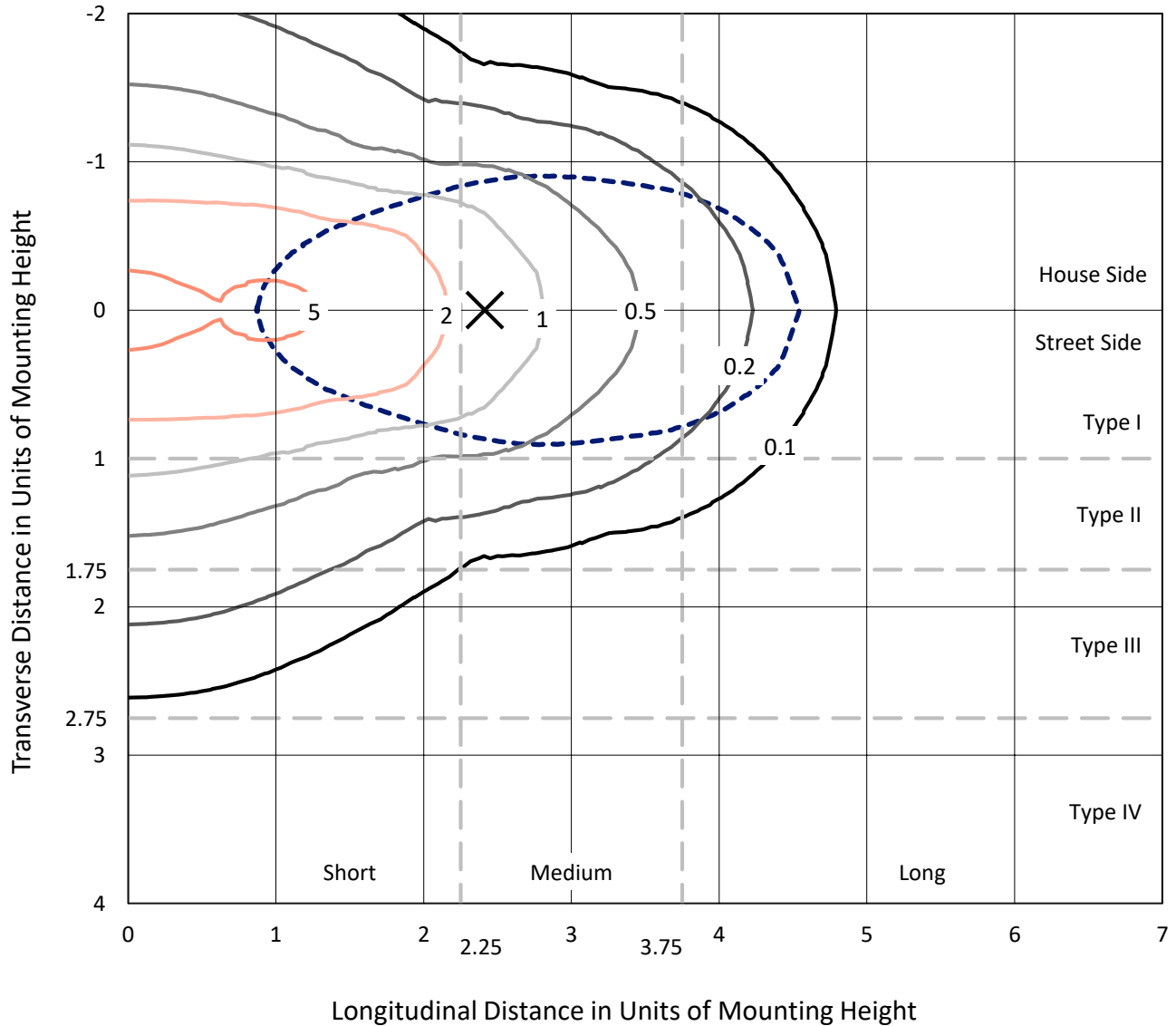
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P233961
 CATALOG NUMBER: CTN-6-3-D-E1-T1-7030

Iso-Footcandle Lines of Horizontal Illumination

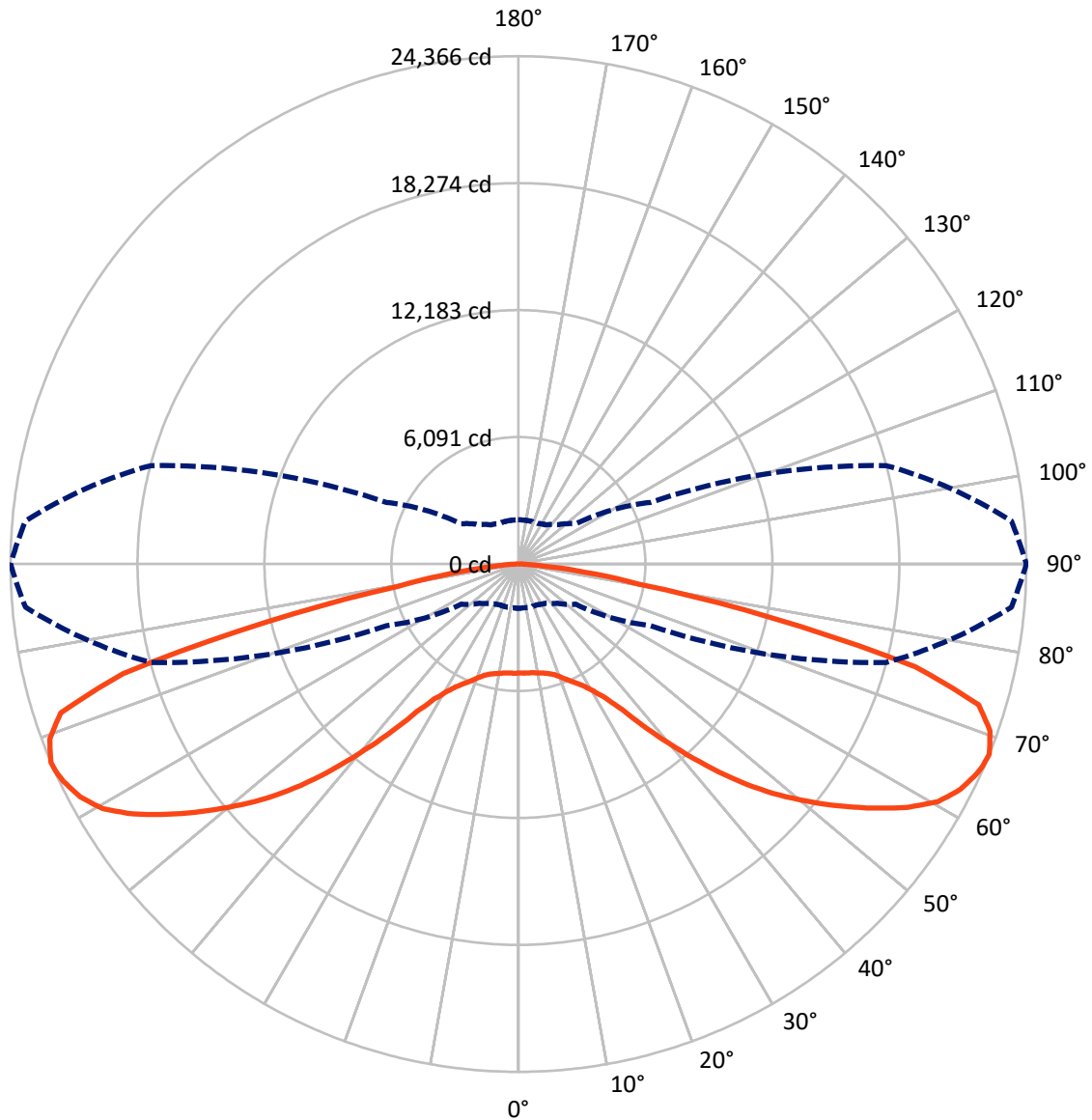
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type I - Short - Semi-Cutoff

REPORT NUMBER: P233961
CATALOG NUMBER: CTN-6-3-D-E1-T1-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P233961

CATALOG NUMBER: CTN-6-3-D-E1-T1-7030

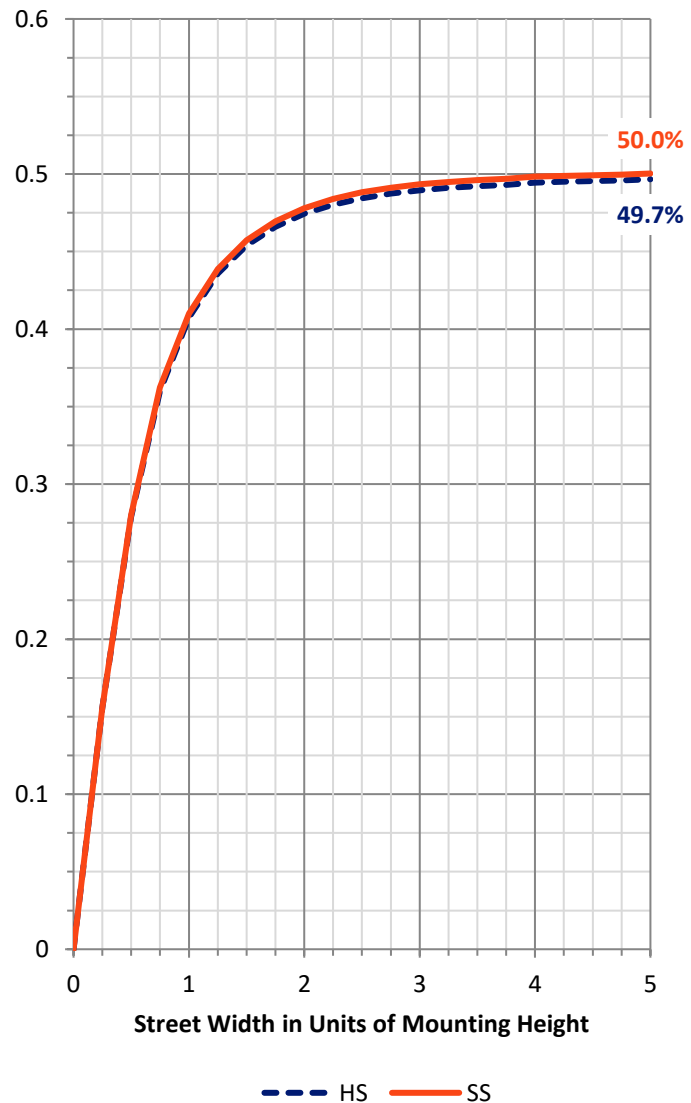
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16239.5	0.0	16239.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16239.5	0.0	16239.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32479.0	0.0	32479.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.1	1.5
10°-20°	1479.0	4.6
20°-30°	2447.3	7.5
30°-40°	3585.7	11.0
40°-50°	5275.3	16.2
50°-60°	6840.8	21.1
60°-70°	7270.3	22.4
70°-80°	4488.0	13.8
80°-90°	595.3	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°	32479.0	100.0
0°-180°	32479.0	100.0



REPORT NUMBER: P233961

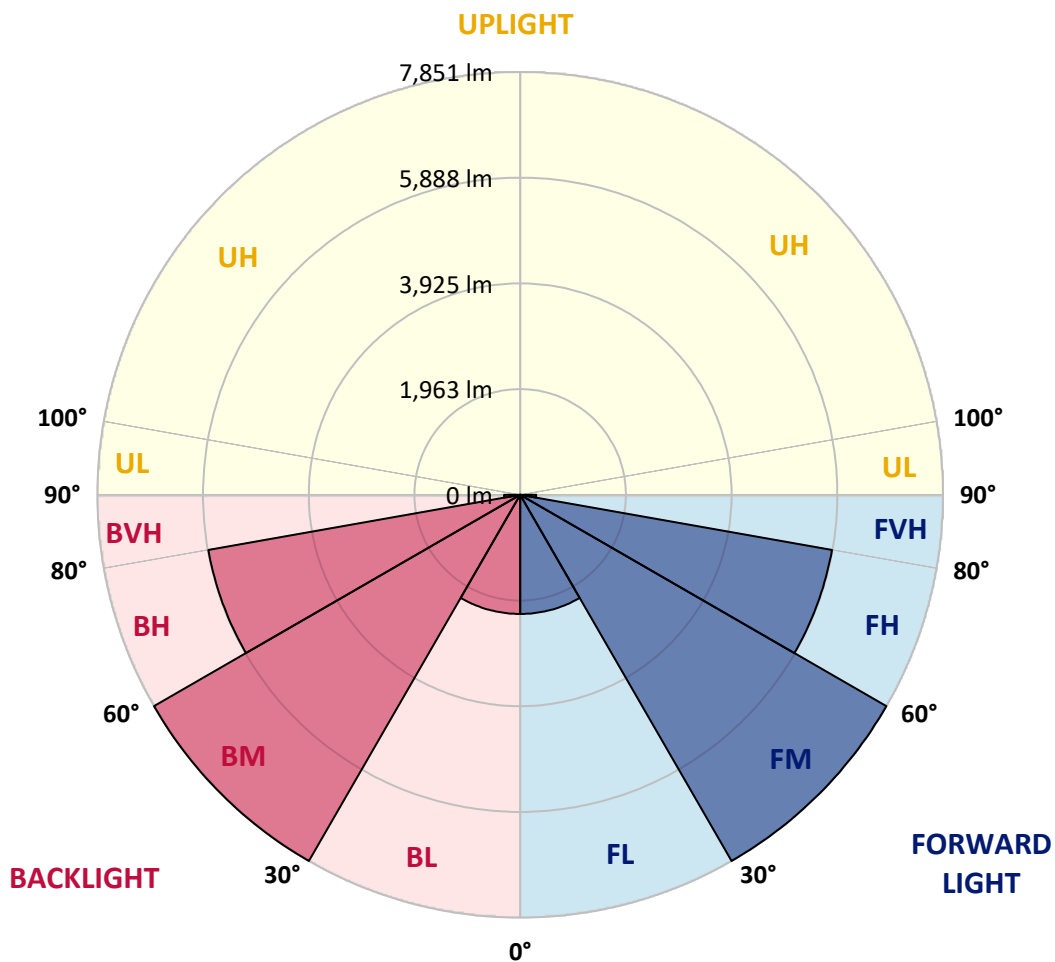
CATALOG NUMBER: CTN-6-3-D-E1-T1-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2211.7	6.8			
FM	(30°-60°)	7850.9	24.2			
FH	(60°-80°)	5879.2	18.1			G3/7500
FVH	(80°-90°)	297.7	0.9			G3/500
BL	(0°-30°)	2211.7	6.8	B3/2500		
BM	(30°-60°)	7850.9	24.2	B4/8500		
BH	(60°-80°)	5879.2	18.1	B5		G5
BVH	(80°-90°)	297.7	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





REPORT NUMBER: P233961

CATALOG NUMBER: CTN-6-3-D-E1-T1-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5230.5	5230.5	5230.5	5230.5	5230.5	5230.5	5230.5	5230.5	5230.5	5230.5	5230.5
2.5°	5245.1	5228.6	5235.4	5259.7	5171.1	5214.9	5199.4	5238.3	5217.9	5235.4	5244.1
5°	5208.1	5187.7	5197.4	5243.2	5162.4	5207.1	5195.5	5239.3	5213.0	5237.3	5247.0
7.5°	5176.0	5154.6	5172.1	5210.1	5148.8	5198.4	5188.7	5248.0	5226.6	5257.7	5267.5
10°	5155.6	5132.2	5148.8	5190.6	5125.4	5203.3	5194.5	5273.3	5262.6	5305.4	5317.1
12.5°	5105.0	5080.6	5092.3	5147.8	5118.6	5199.4	5220.8	5311.3	5308.4	5359.9	5372.6
15°	5014.5	4990.1	5005.7	5079.7	5090.4	5202.3	5268.5	5375.5	5393.0	5444.6	5455.3
17.5°	4900.6	4883.1	4906.5	5004.7	5071.9	5242.2	5337.5	5473.8	5516.6	5569.1	5583.7
20°	4744.9	4735.2	4777.0	4911.3	5039.8	5271.4	5420.3	5612.0	5689.8	5775.4	5786.2
22.5°	4532.8	4521.1	4608.7	4797.5	4982.4	5278.2	5501.0	5755.0	5899.0	6009.0	6037.2
25°	4294.4	4290.5	4410.2	4658.3	4904.5	5273.3	5579.9	5907.8	6127.7	6272.7	6303.8
27.5°	4059.8	4071.5	4216.5	4509.4	4840.3	5284.0	5670.4	6103.4	6413.8	6594.8	6608.4
30°	3860.4	3870.1	4026.8	4362.5	4779.0	5296.7	5782.3	6336.9	6770.0	7014.2	7054.1
32.5°	3672.5	3694.9	3854.5	4202.9	4710.9	5321.0	5927.3	6641.5	7206.9	7592.3	7641.9
35°	3517.8	3537.3	3693.0	4040.4	4602.8	5340.5	6119.0	7026.9	7857.9	8499.2	8576.1
37.5°	3380.6	3404.0	3538.3	3890.5	4474.4	5347.3	6309.7	7501.8	8739.6	9760.4	9999.7
40°	3281.3	3299.8	3415.6	3740.7	4336.2	5316.1	6527.7	8033.1	9730.2	11265.8	11528.5
42.5°	3199.6	3215.2	3310.5	3593.7	4180.5	5254.8	6731.0	8562.5	10777.3	12860.7	13203.2
45°	3116.9	3120.8	3212.3	3467.2	4022.9	5157.5	6883.8	9069.4	11879.8	14487.8	14888.7
47.5°	3042.9	3038.1	3110.1	3342.7	3853.5	4994.0	6943.2	9489.8	12951.2	16012.6	16450.5
50°	2973.8	2953.4	3015.7	3223.9	3689.1	4759.5	6868.3	9780.8	14078.1	17485.9	17874.2
52.5°	2870.7	2861.0	2920.3	3107.2	3524.6	4479.3	6621.1	9934.5	15279.9	18881.4	19287.2
55°	2778.2	2771.4	2832.7	2988.4	3363.1	4194.1	6194.9	9892.7	16464.2	20227.2	20676.8
57.5°	2676.1	2671.2	2728.6	2859.0	3185.0	3929.4	5667.4	9622.2	17521.9	21389.1	22024.5
60°	2575.8	2578.8	2615.7	2727.6	3004.0	3637.5	5066.0	9151.2	18365.6	22441.0	23134.9
62.5°	2459.1	2456.1	2483.4	2576.8	2796.7	3322.2	4473.4	8498.2	18860.0	23359.7	23803.4
65°	2301.4	2290.7	2321.9	2381.2	2545.7	2999.1	3889.5	7708.1	18872.6	23816.1	24193.6
66°	2234.3	2222.6	2250.8	2292.7	2447.4	2868.7	3674.5	7373.3	18679.0	23829.7	24298.7
67.5°	2130.2	2116.5	2135.0	2154.5	2293.6	2660.5	3359.2	6993.8	18254.7	23744.0	24365.9
70°	1871.3	1873.2	1892.7	1885.9	1956.9	2197.3	2774.4	6289.3	16208.2	23397.6	24005.8
72.5°	1456.8	1440.2	1412.0	1384.7	1418.8	1630.0	2101.0	5278.2	13272.3	21903.9	23086.2
75°	940.0	937.1	936.1	969.2	974.1	1117.1	1623.2	4258.4	10346.2	17975.4	19677.4
77.5°	587.8	582.9	624.7	705.5	718.2	722.1	1064.6	3236.6	7479.4	11502.2	12394.6
80°	421.4	421.4	424.3	435.0	503.1	513.8	735.7	2031.9	4253.5	5607.1	5891.2
82.5°	319.2	314.3	315.3	320.2	326.0	350.3	442.8	902.1	1699.1	2841.5	3215.2
85°	230.6	237.4	249.1	240.4	217.0	219.9	251.1	310.4	653.0	1100.6	1190.1
87.5°	83.7	96.3	99.3	103.2	99.3	100.2	103.2	97.3	132.3	271.5	313.3
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)