

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: P232765

Luminaire Tested: **CTN-10-8-D-E1-T5N-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232765
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-10-8-D-E1-T5N-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 3000K LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86870 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 631
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

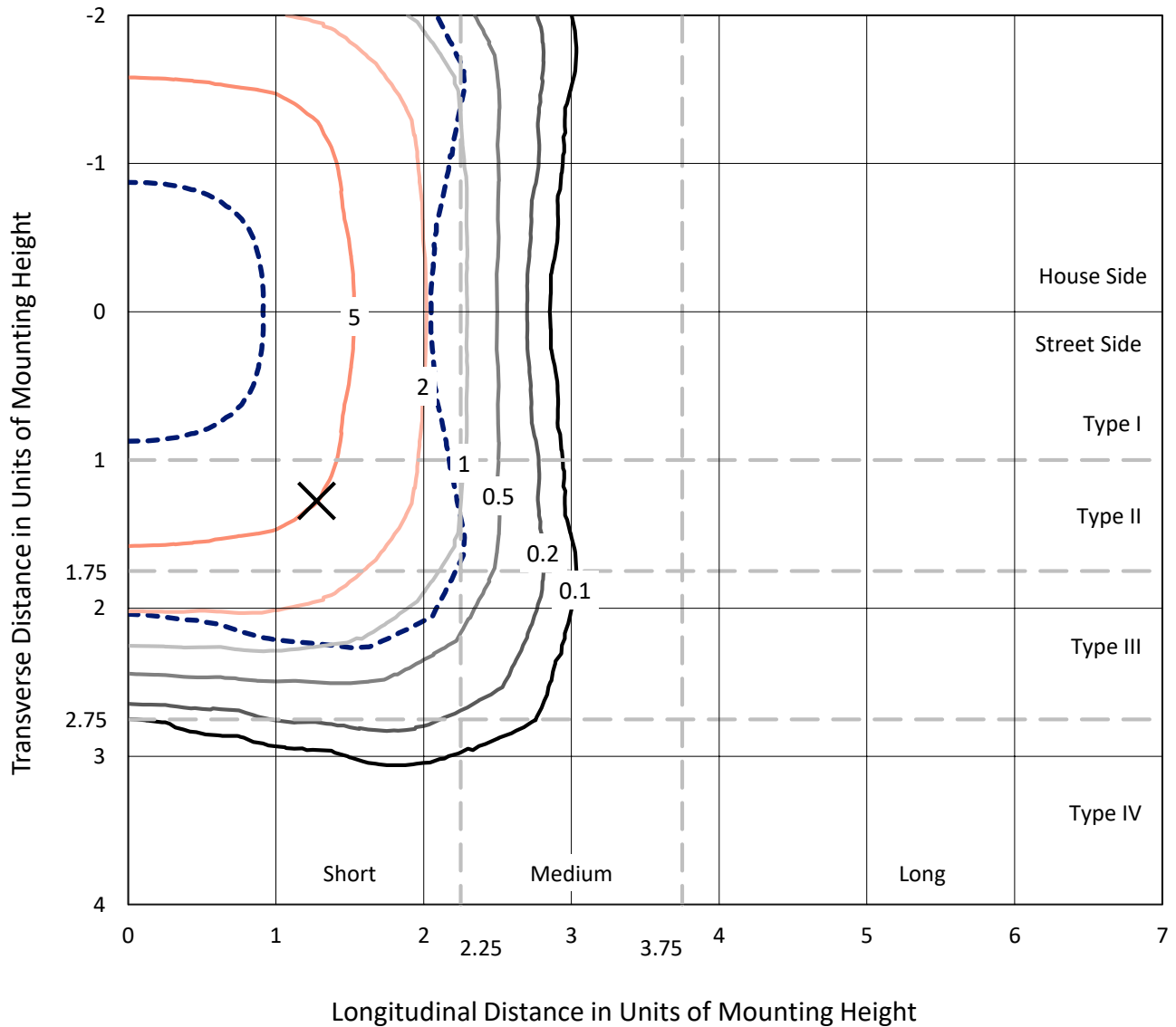


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Iso-Footcandle Lines of Horizontal Illumination

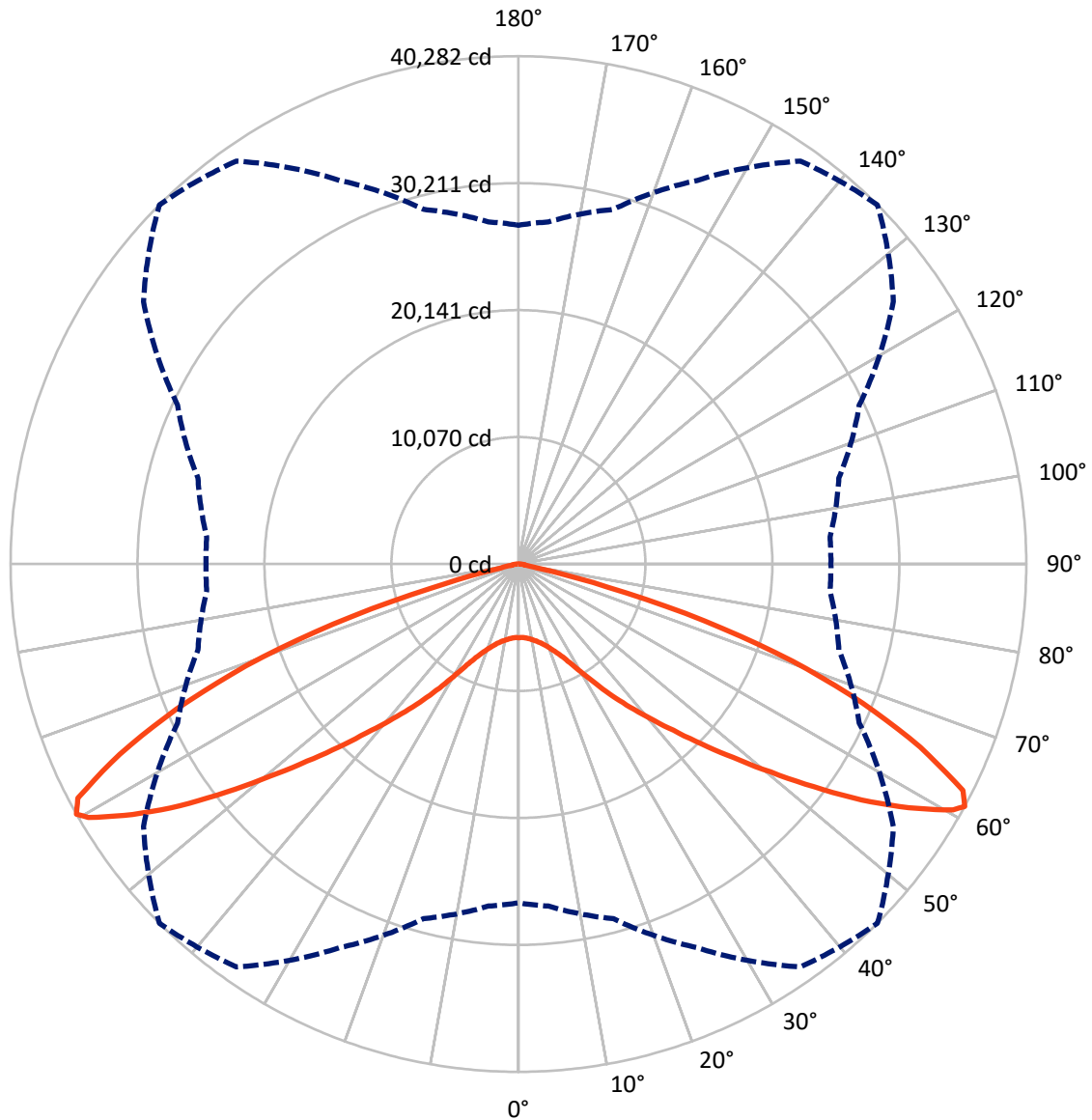
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 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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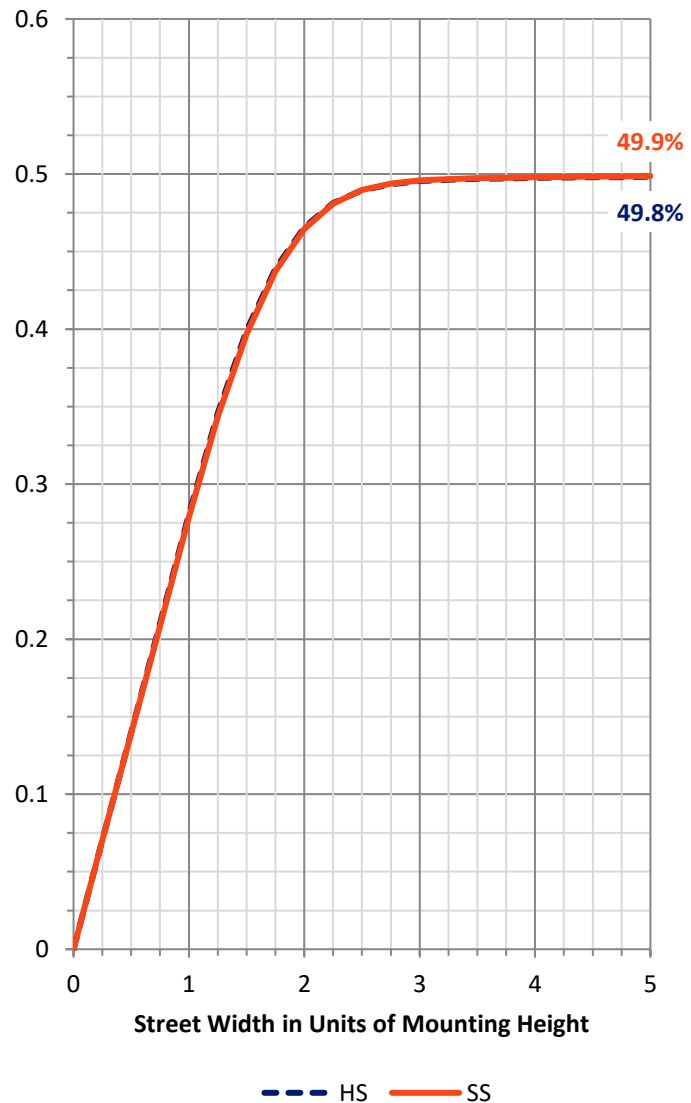
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	43435.0	0.0	43435.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	43435.0	0.0	43435.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	86870.0	0.0	86870.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.3	0.7
10°-20°	1871.9	2.2
20°-30°	3994.1	4.6
30°-40°	8699.5	10.0
40°-50°	16823.2	19.4
50°-60°	26715.8	30.8
60°-70°	24092.0	27.7
70°-80°	3770.9	4.3
80°-90°	331.4	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°	86870.0	100.0
0°-180°	86870.0	100.0



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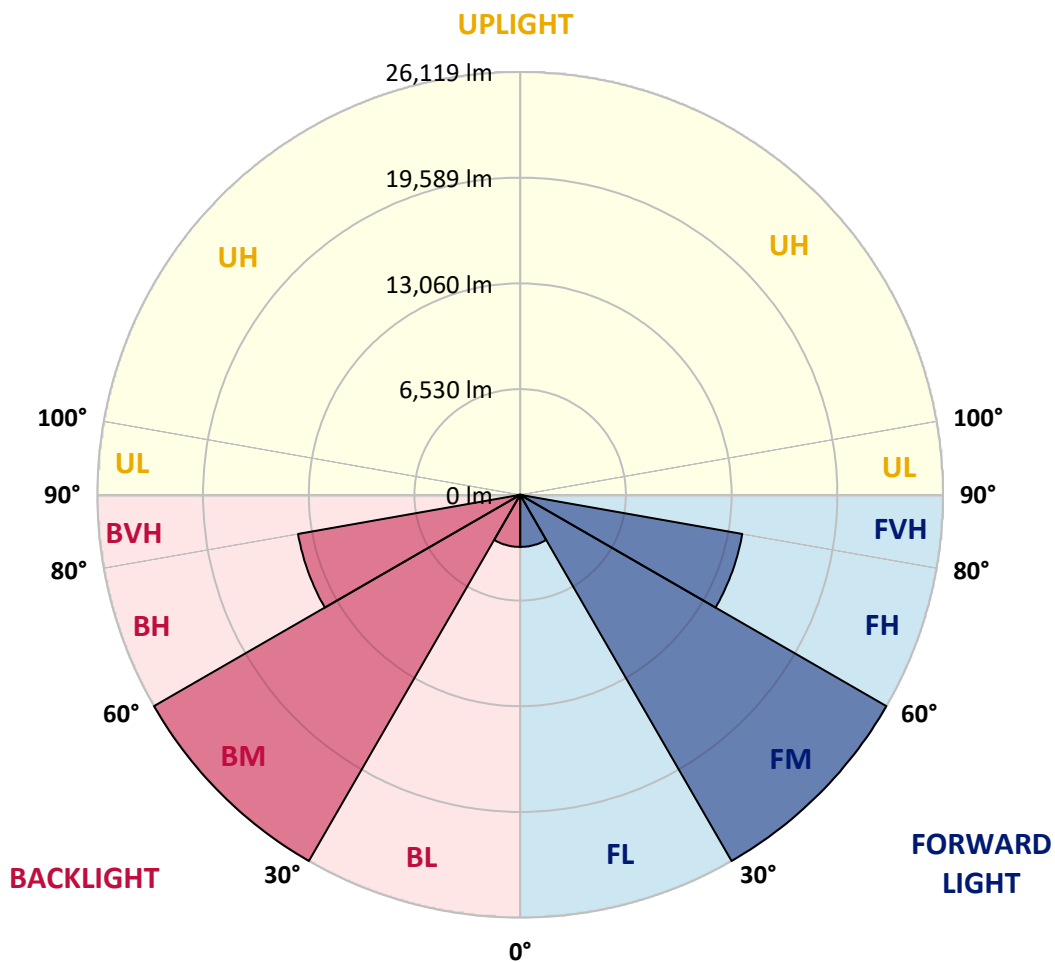
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3218.6	3.7			
FM (30°-60°)	26119.2	30.1			
FH (60°-80°)	13931.5	16.0			G5
FVH (80°-90°)	165.7	0.2			G2/225
BL (0°-30°)	3218.6	3.7	B4/5000		
BM (30°-60°)	26119.2	30.1	B5		
BH (60°-80°)	13931.5	16.0	B5		G5
BVH (80°-90°)	165.7	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5847.6	5847.6	5847.6	5847.6	5847.6	5847.6	5847.6	5847.6	5847.6	5847.6	5847.6
2.5°	5887.9	5875.3	5885.4	5892.9	5804.9	5827.5	5825.0	5885.4	5872.8	5900.5	5915.6
5°	5928.2	5908.0	5920.6	5940.7	5857.7	5887.9	5887.9	5943.3	5923.1	5950.8	5978.5
7.5°	6001.1	5981.0	5996.1	6021.3	5943.3	5976.0	5978.5	6043.9	6016.2	6038.9	6081.6
10°	6121.9	6109.3	6114.4	6137.0	6064.0	6104.3	6104.3	6174.7	6144.6	6169.7	6222.6
12.5°	6262.8	6257.8	6262.8	6293.0	6225.1	6265.3	6265.3	6333.3	6313.1	6343.3	6393.7
15°	6449.0	6444.0	6446.5	6486.8	6431.4	6469.1	6476.7	6547.1	6542.1	6574.8	6620.1
17.5°	6713.2	6713.2	6710.7	6745.9	6710.7	6748.4	6763.5	6839.0	6869.2	6909.5	6937.2
20°	7115.8	7093.2	7080.6	7098.2	7070.5	7110.8	7135.9	7259.2	7309.5	7372.5	7395.1
22.5°	7641.7	7611.5	7571.2	7553.6	7515.9	7568.7	7619.0	7795.2	7868.1	7971.3	7996.5
25°	8366.4	8316.0	8240.5	8170.1	8084.5	8160.0	8253.1	8494.7	8645.6	8781.5	8801.7
27.5°	9357.7	9282.2	9166.5	9030.6	8879.7	8972.8	9108.6	9460.9	9667.2	9883.6	9916.3
30°	10636.0	10623.4	10442.2	10200.7	9999.4	10052.2	10220.8	10656.1	10983.2	11207.1	11270.0
32.5°	12341.9	12329.4	12024.9	11617.3	11330.4	11365.7	11521.7	12004.8	12412.4	12777.2	12789.8
35°	14375.0	14334.8	13907.0	13343.4	12882.9	12842.7	12996.2	13476.7	14032.8	14458.1	14500.8
37.5°	16697.5	16632.1	16138.9	15285.9	14573.8	14407.7	14515.9	15119.8	15764.0	16244.6	16292.4
40°	18972.1	18921.8	18373.3	17573.1	16531.4	16111.2	16118.8	16891.2	17598.3	18043.6	18141.8
42.5°	21163.7	21204.0	20678.1	19862.9	18773.3	18023.5	18033.6	18783.4	19515.6	19978.6	20106.9
45°	23413.2	23378.0	22884.8	22185.3	21181.3	20351.0	20069.2	20819.0	21546.2	21926.1	22064.5
47.5°	25255.1	25192.2	24860.0	24490.1	23745.3	22927.6	22431.9	22952.7	23453.5	23710.1	23851.0
50°	26860.4	26810.1	26777.4	26621.4	26455.3	25926.9	25111.6	25078.9	25187.1	25242.5	25370.8
52.5°	28219.1	28216.6	28392.8	28775.2	29185.4	29369.0	27957.5	27044.1	26671.7	26397.4	26445.2
55°	29243.2	29230.7	29731.4	30755.5	32204.8	33035.1	30951.7	28745.0	27763.7	27232.8	27227.8
57.5°	29769.1	29791.8	30808.3	32662.7	35350.0	36482.3	33830.3	30307.6	28626.8	27819.1	27809.0
60°	28380.2	28475.8	30468.6	33845.4	38130.4	39610.0	36187.9	30632.2	27690.7	26334.5	26299.3
61°	26875.5	27235.3	29119.9	33576.1	39011.1	40281.8	36301.2	29827.0	26311.9	24814.7	24782.0
62.5°	23566.7	23903.9	26787.4	32904.3	38950.7	39577.2	35657.0	28380.2	24147.9	22479.7	22411.8
65°	17100.1	17497.6	20602.6	29152.6	35407.9	35035.5	32433.8	25058.8	20250.3	18373.3	18287.7
67.5°	8597.8	9106.1	12591.0	21156.2	28767.7	29474.7	27690.7	19840.2	14352.4	10837.3	10827.2
70°	2221.8	2438.2	4539.2	11126.6	20746.0	23086.1	21113.4	11494.0	5580.9	3366.7	3157.8
72.5°	621.5	651.7	1232.9	4053.6	11798.4	15467.1	11446.2	4018.4	1258.1	717.1	656.7
75°	437.8	445.4	490.7	1026.6	4456.2	7219.0	3688.7	868.1	503.2	475.6	475.6
77.5°	390.0	395.0	425.2	553.6	933.5	1622.9	707.1	561.1	442.9	427.8	422.7
80°	412.7	417.7	435.3	535.9	548.5	583.8	490.7	485.6	440.3	450.4	445.4
82.5°	442.9	452.9	475.6	548.5	470.5	473.0	402.6	400.1	390.0	442.9	445.4
85°	392.5	410.1	427.8	480.6	387.5	317.0	329.6	261.7	279.3	332.1	319.6
87.5°	218.9	216.4	208.8	218.9	196.3	158.5	133.4	120.8	110.7	125.8	123.3
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)