

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: P233984

Luminaire Tested: **CTN-10-9-D-E1-T1-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233984
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-10-9-D-E1-T1-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 5000K LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 100093 lumens
Efficiency: N/A
Efficacy: 131.7 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): 760
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

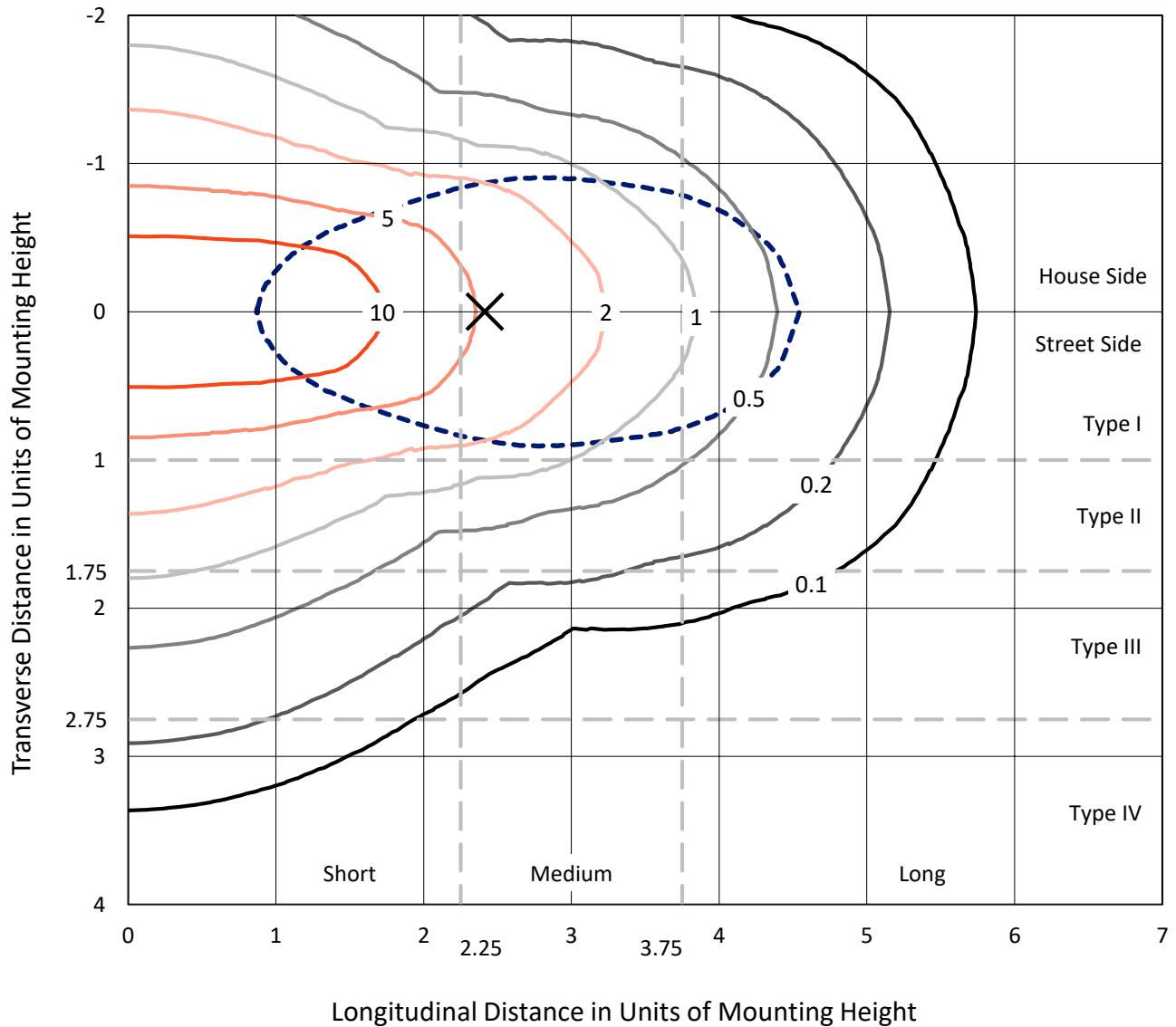


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

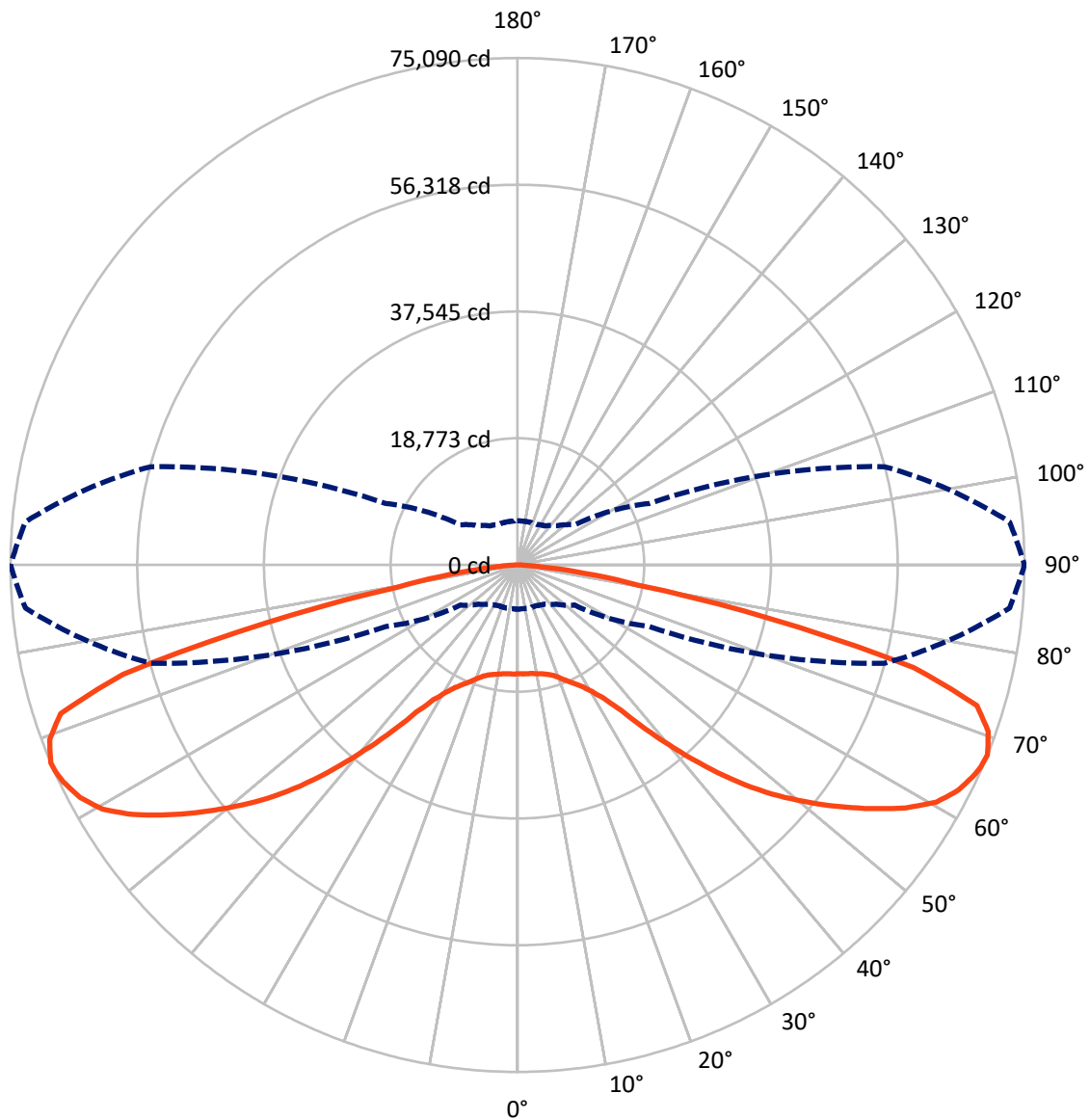


Based on 30 foot mounting height. Maximum calculated value = 18 fc
 Type I - Short - Semi-Cutoff

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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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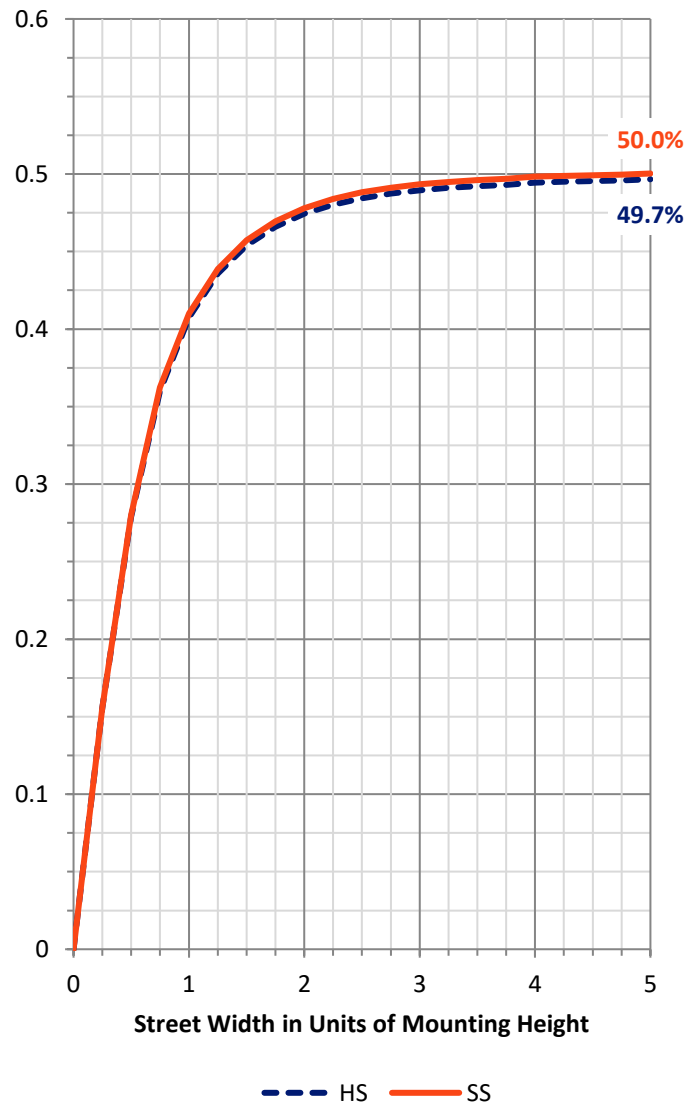
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	50046.5	0.0	50046.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	50046.5	0.0	50046.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	100093.0	0.0	100093.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1532.0	1.5
10°-20°	4558.1	4.6
20°-30°	7542.1	7.5
30°-40°	11050.4	11.0
40°-50°	16257.3	16.2
50°-60°	21081.9	21.1
60°-70°	22405.6	22.4
70°-80°	13831.0	13.8
80°-90°	1834.6	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°	100093.0	100.0
0°-180°	100093.0	100.0



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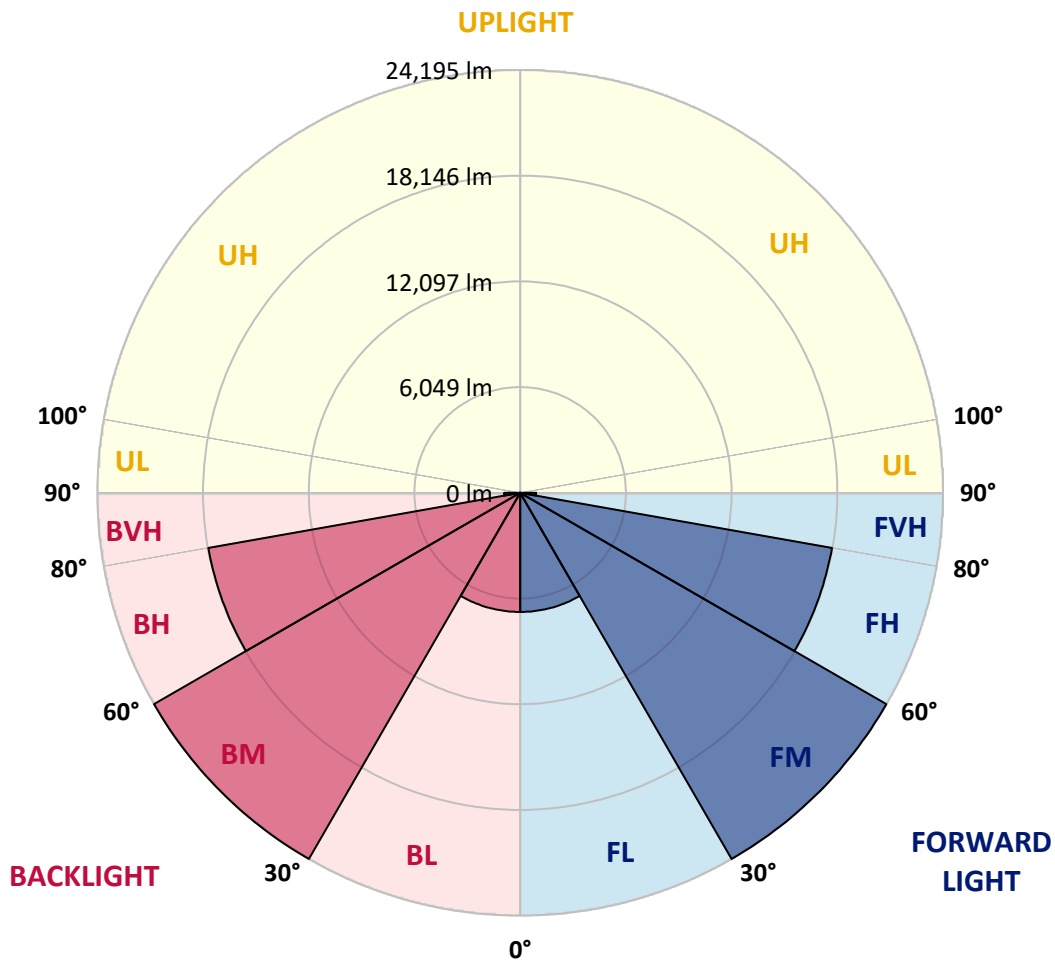
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6816.1	6.8			
FM	(30°-60°)	24194.8	24.2			
FH	(60°-80°)	18118.3	18.1			G5
FVH	(80°-90°)	917.3	0.9			G5
BL	(0°-30°)	6816.1	6.8	B5		
BM	(30°-60°)	24194.8	24.2	B5		
BH	(60°-80°)	18118.3	18.1	B5		G5
BVH	(80°-90°)	917.3	0.9			G5
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°	16119.2	16119.2	16119.2	16119.2	16119.2	16119.2	16119.2	16119.2	16119.2	16119.2	16119.2
2.5°	16164.2	16113.2	16134.2	16209.2	15936.3	16071.3	16023.3	16143.2	16080.2	16134.2	16161.2
5°	16050.3	15987.3	16017.3	16158.2	15909.3	16047.3	16011.3	16146.2	16065.3	16140.2	16170.2
7.5°	15951.3	15885.3	15939.3	16056.3	15867.3	16020.3	15990.3	16173.2	16107.2	16203.2	16233.2
10°	15888.3	15816.3	15867.3	15996.3	15795.4	16035.3	16008.3	16251.2	16218.2	16350.2	16386.1
12.5°	15732.4	15657.4	15693.4	15864.3	15774.4	16023.3	16089.2	16368.1	16359.1	16518.1	16557.1
15°	15453.5	15378.5	15426.5	15654.4	15687.4	16032.3	16236.2	16566.1	16620.1	16779.0	16812.0
17.5°	15102.6	15048.6	15120.6	15423.5	15630.4	16155.2	16449.1	16869.0	17000.9	17162.9	17207.8
20°	14622.8	14592.8	14721.7	15135.6	15531.4	16245.2	16704.0	17294.8	17534.7	17798.6	17831.6
22.5°	13969.0	13933.0	14202.9	14784.7	15354.5	16266.2	16952.9	17735.7	18179.5	18518.4	18605.3
25°	13234.3	13222.3	13591.1	14355.9	15114.6	16251.2	17195.8	18206.5	18884.2	19331.1	19427.1
27.5°	12511.5	12547.5	12994.4	13897.0	14916.7	16284.2	17474.7	18809.3	19765.9	20323.7	20365.7
30°	11896.7	11926.7	12409.6	13444.2	14727.7	16323.2	17819.6	19529.0	20863.5	21616.3	21739.2
32.5°	11318.0	11386.9	11878.8	12952.4	14517.8	16398.1	18266.5	20467.7	22210.1	23397.6	23550.6
35°	10841.1	10901.1	11380.9	12451.5	14184.9	16458.1	18857.3	21655.3	24216.3	26192.6	26429.5
37.5°	10418.3	10490.2	10904.1	11989.7	13789.1	16479.1	19445.0	23118.7	26933.4	30079.2	30817.0
40°	10112.4	10169.4	10526.2	11527.9	13363.2	16383.1	20116.8	24756.1	29986.3	34718.6	35528.3
42.5°	9860.5	9908.5	10202.4	11075.0	12883.4	16194.2	20743.6	26387.6	33213.1	39633.8	40689.4
45°	9605.6	9617.6	9899.5	10685.2	12397.6	15894.3	21214.4	27950.0	36610.9	44648.0	45883.6
47.5°	9377.6	9362.7	9584.6	10301.3	11875.8	15390.5	21397.3	29245.5	39912.7	49347.4	50696.9
50°	9164.7	9101.7	9293.7	9935.4	11368.9	14667.8	21166.4	30142.2	43385.5	53887.7	55084.3
52.5°	8846.8	8816.8	8999.8	9575.6	10862.1	13804.1	20404.7	30616.0	47089.2	58188.2	59438.7
55°	8561.9	8540.9	8729.9	9209.7	10364.3	12925.4	19091.2	30487.1	50738.9	62335.7	63721.2
57.5°	8247.1	8232.1	8409.0	8810.8	9815.5	12109.7	17465.8	29653.4	53998.7	65916.4	67874.7
60°	7938.2	7947.2	8061.1	8406.0	9257.7	11210.0	15612.4	28201.9	56598.8	69158.3	71296.5
62.5°	7578.3	7569.3	7653.3	7941.2	8618.9	10238.3	13786.1	26189.6	58122.2	71989.3	73356.8
65°	7092.5	7059.5	7155.4	7338.4	7845.2	9242.7	11986.7	23754.5	58161.2	73395.7	74559.3
66°	6885.5	6849.6	6936.5	7065.5	7542.3	8840.8	11323.9	22722.9	57564.4	73437.7	74883.2
67.5°	6564.7	6522.7	6579.6	6639.6	7068.5	8199.1	10352.3	21553.3	56256.9	73173.8	75090.1
70°	5766.9	5772.9	5832.9	5811.9	6030.8	6771.6	8549.9	19382.1	49950.1	72106.2	73980.5
72.5°	4489.4	4438.4	4351.4	4267.5	4372.4	5023.2	6474.7	16266.2	40902.4	67502.9	71146.6
75°	2897.0	2888.0	2885.0	2986.9	3001.9	3442.8	5002.2	13123.3	31884.6	55396.2	60641.3
77.5°	1811.4	1796.4	1925.3	2174.2	2213.2	2225.2	3280.8	9974.4	23049.8	35447.3	38197.3
80°	1298.5	1298.5	1307.5	1340.5	1550.4	1583.4	2267.2	6261.8	13108.3	17279.8	18155.5
82.5°	983.6	968.7	971.7	986.6	1004.6	1079.6	1364.5	2780.0	5236.1	8756.9	9908.5
85°	710.7	731.7	767.7	740.7	668.8	677.8	773.7	956.7	2012.3	3391.8	3667.7
87.5°	257.9	296.9	305.9	317.9	305.9	308.9	317.9	299.9	407.9	836.7	965.7
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)