

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: P233964

Luminaire Tested: **CTN-8-4-D-E1-T1-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233964
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-8-4-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: 44977 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

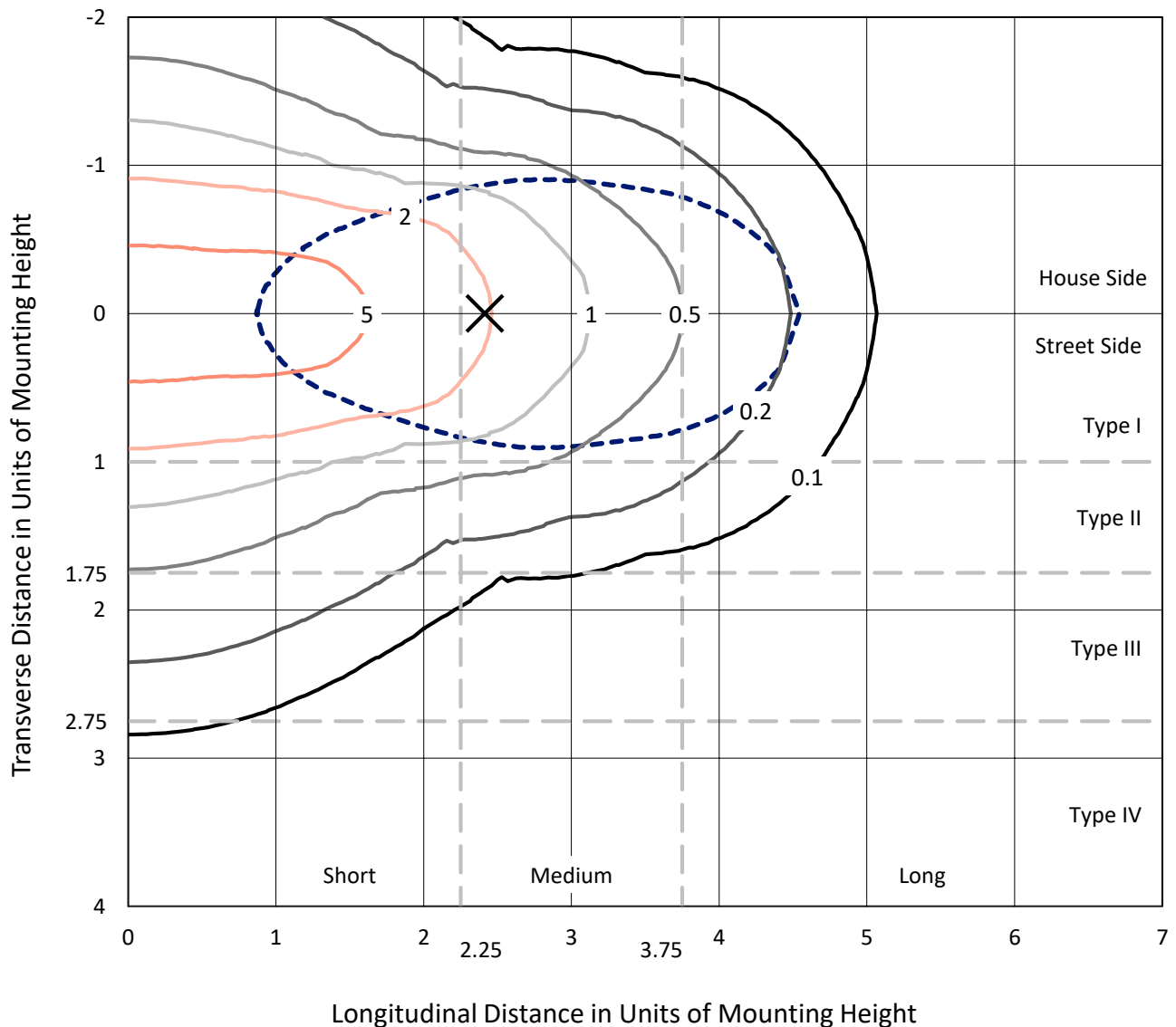
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

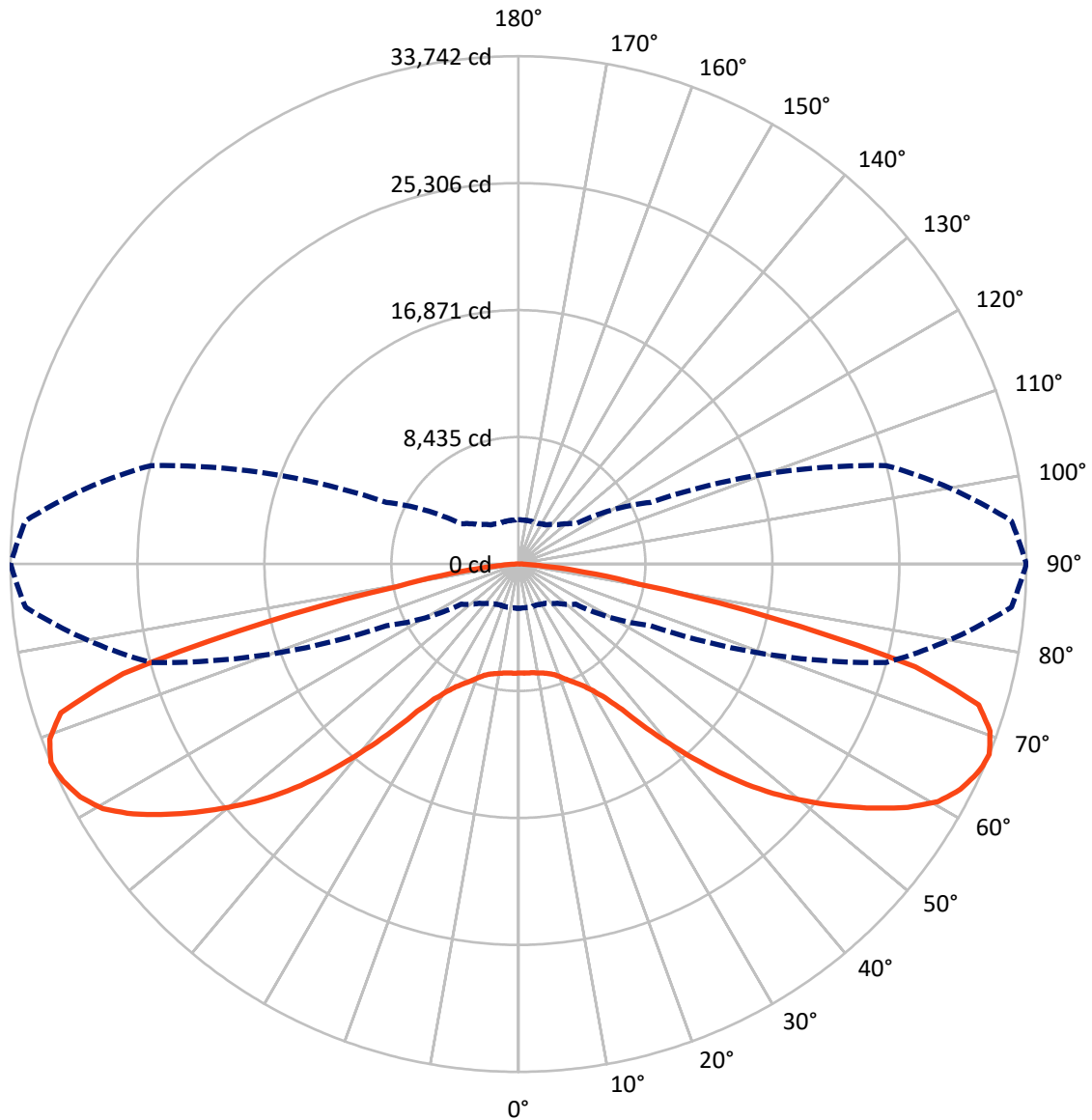
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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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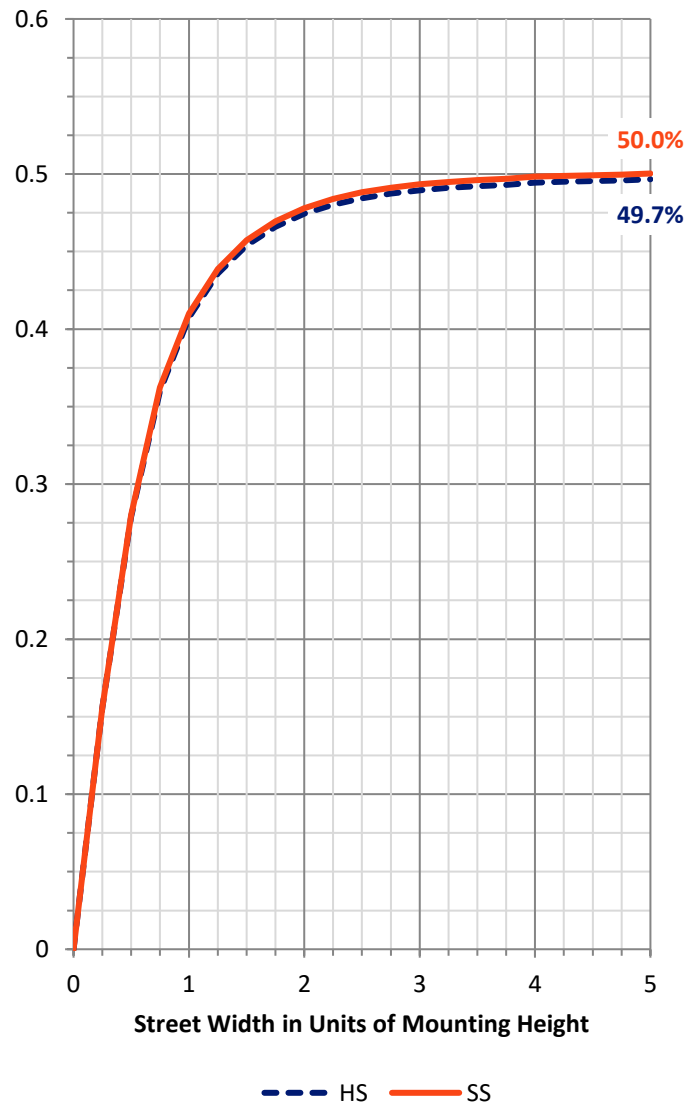
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22488.5	0.0	22488.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22488.5	0.0	22488.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44977.0	0.0	44977.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.4	1.5
10°-20°	2048.2	4.6
20°-30°	3389.1	7.5
30°-40°	4965.5	11.0
40°-50°	7305.3	16.2
50°-60°	9473.2	21.1
60°-70°	10068.0	22.4
70°-80°	6215.0	13.8
80°-90°	824.4	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°	44977.0	100.0
0°-180°	44977.0	100.0



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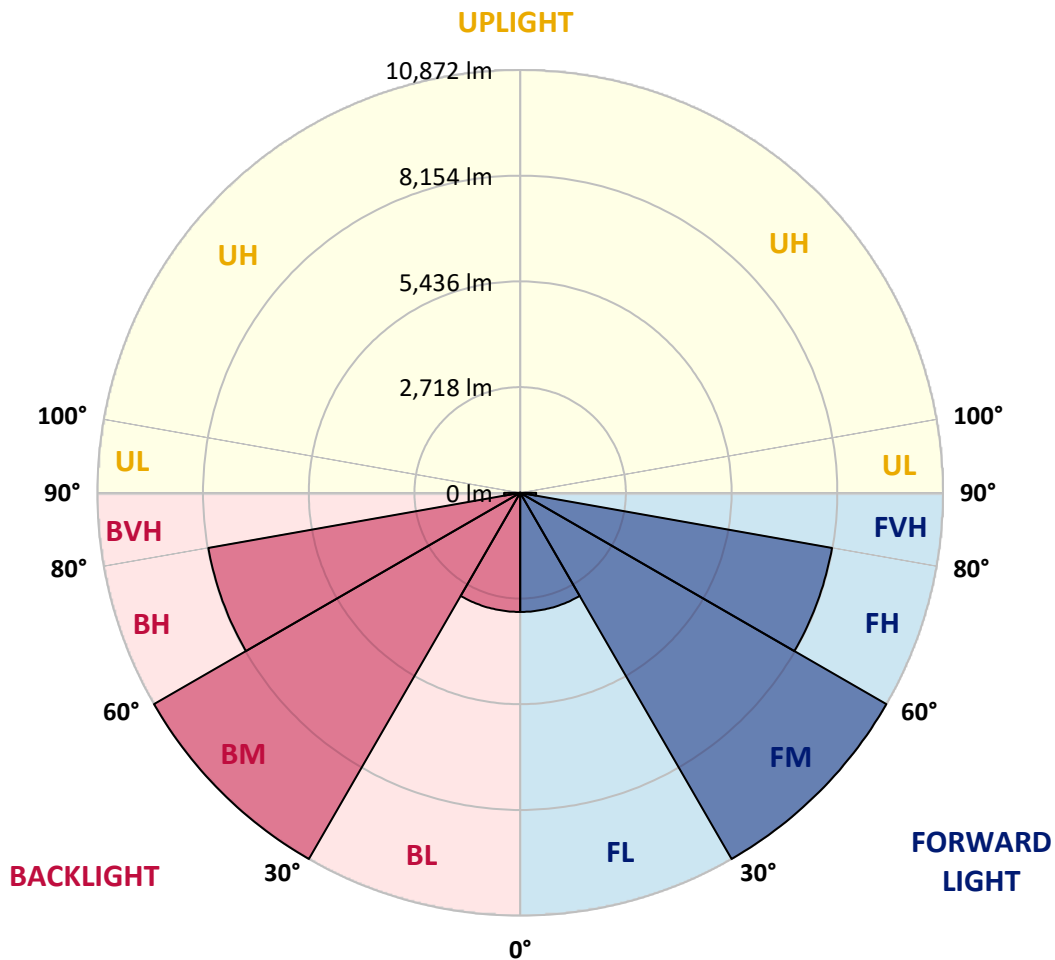
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3062.8	6.8			
FM	(30°-60°)	10872.0	24.2			
FH	(60°-80°)	8141.5	18.1			G4/12000
FVH	(80°-90°)	412.2	0.9			G3/500
BL	(0°-30°)	3062.8	6.8	B4/5000		
BM	(30°-60°)	10872.0	24.2	B5		
BH	(60°-80°)	8141.5	18.1	B5		G5
BVH	(80°-90°)	412.2	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°	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2
2.5°	7263.4	7240.5	7249.9	7283.6	7161.0	7221.7	7200.1	7254.0	7225.7	7249.9	7262.1
5°	7212.2	7183.9	7197.4	7260.7	7148.9	7210.9	7194.7	7255.3	7219.0	7252.6	7266.1
7.5°	7167.7	7138.1	7162.4	7214.9	7130.0	7198.7	7185.3	7267.5	7237.8	7280.9	7294.4
10°	7139.4	7107.1	7130.0	7188.0	7097.7	7205.5	7193.4	7302.5	7287.7	7347.0	7363.1
12.5°	7069.4	7035.7	7051.9	7128.7	7088.2	7200.1	7229.7	7355.1	7351.0	7422.4	7440.0
15°	6944.1	6910.4	6931.9	7034.3	7049.2	7204.1	7295.8	7444.0	7468.3	7539.7	7554.5
17.5°	6786.4	6762.1	6794.5	6930.6	7023.6	7259.4	7391.4	7580.1	7639.4	7712.2	7732.4
20°	6570.8	6557.3	6615.2	6801.2	6979.1	7299.8	7506.0	7771.5	7879.3	7997.9	8012.7
22.5°	6277.0	6260.8	6382.1	6643.5	6899.6	7309.2	7617.8	7969.6	8169.0	8321.3	8360.4
25°	5946.8	5941.5	6107.2	6450.8	6791.8	7302.5	7727.0	8181.1	8485.7	8686.5	8729.6
27.5°	5622.1	5638.3	5839.0	6244.7	6702.8	7317.3	7852.3	8452.0	8881.9	9132.5	9151.4
30°	5345.8	5359.3	5576.3	6041.2	6617.9	7334.8	8007.3	8775.4	9375.1	9713.3	9768.6
32.5°	5085.7	5116.7	5337.7	5820.2	6523.6	7368.5	8208.1	9197.2	9980.1	10513.8	10582.5
35°	4871.5	4898.4	5114.0	5595.1	6374.0	7395.5	8473.5	9730.8	10881.7	11769.7	11876.2
37.5°	4681.5	4713.8	4899.8	5387.6	6196.1	7404.9	8737.7	10388.5	12102.6	13516.2	13847.7
40°	4544.0	4569.6	4730.0	5180.1	6004.8	7361.8	9039.5	11124.2	13474.4	15600.9	15964.7
42.5°	4430.8	4452.4	4584.4	4976.6	5789.2	7276.9	9321.2	11857.3	14924.4	17809.5	18283.9
45°	4316.3	4321.7	4448.3	4801.4	5570.9	7142.1	9532.7	12559.4	16451.2	20062.7	20617.9
47.5°	4213.9	4207.1	4306.8	4628.9	5336.4	6915.8	9614.9	13141.5	17934.9	22174.3	22780.7
50°	4118.2	4089.9	4176.1	4464.5	5108.7	6591.0	9511.2	13544.5	19495.4	24214.6	24752.2
52.5°	3975.3	3961.9	4044.1	4302.8	4880.9	6202.9	9168.9	13757.4	21159.6	26147.0	26708.9
55°	3847.3	3837.9	3922.8	4138.4	4657.2	5808.0	8578.7	13699.4	22799.6	28010.7	28633.3
57.5°	3705.8	3699.1	3778.6	3959.2	4410.6	5441.5	7848.3	13324.8	24264.4	29619.7	30499.6
60°	3567.0	3571.1	3622.3	3777.3	4160.0	5037.2	7015.5	12672.6	25432.8	31076.4	32037.2
62.5°	3405.3	3401.3	3439.0	3568.4	3872.9	4600.6	6194.8	11768.4	26117.3	32348.5	32963.0
65°	3187.0	3172.2	3215.3	3297.5	3525.3	4153.2	5386.3	10674.1	26134.9	32980.5	33503.4
66°	3094.0	3077.9	3116.9	3174.9	3389.1	3972.6	5088.4	10210.6	25866.7	32999.4	33648.9
67.5°	2949.8	2931.0	2956.6	2983.5	3176.2	3684.3	4651.8	9685.0	25279.1	32880.8	33741.9
70°	2591.4	2594.1	2621.0	2611.6	2710.0	3042.8	3841.9	8709.4	22445.2	32401.1	33243.3
72.5°	2017.3	1994.4	1955.3	1917.6	1964.8	2257.2	2909.4	7309.2	18379.6	30332.6	31969.9
75°	1301.8	1297.7	1296.4	1342.2	1348.9	1547.0	2247.8	5897.0	14327.4	24892.4	27249.3
77.5°	813.9	807.2	865.1	977.0	994.5	999.9	1474.2	4482.0	10357.5	15928.3	17164.1
80°	583.5	583.5	587.5	602.4	696.7	711.5	1018.8	2813.7	5890.2	7764.7	8158.2
82.5°	442.0	435.3	436.6	443.4	451.4	485.1	613.1	1249.2	2352.9	3934.9	4452.4
85°	319.4	328.8	345.0	332.9	300.5	304.6	347.7	429.9	904.2	1524.1	1648.1
87.5°	115.9	133.4	137.5	142.8	137.5	138.8	142.8	134.8	183.3	376.0	433.9
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)