

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: P232740

Luminaire Tested: **CTN-8-6-D-E1-T5-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-21)
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-T5-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 3000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62166 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G5

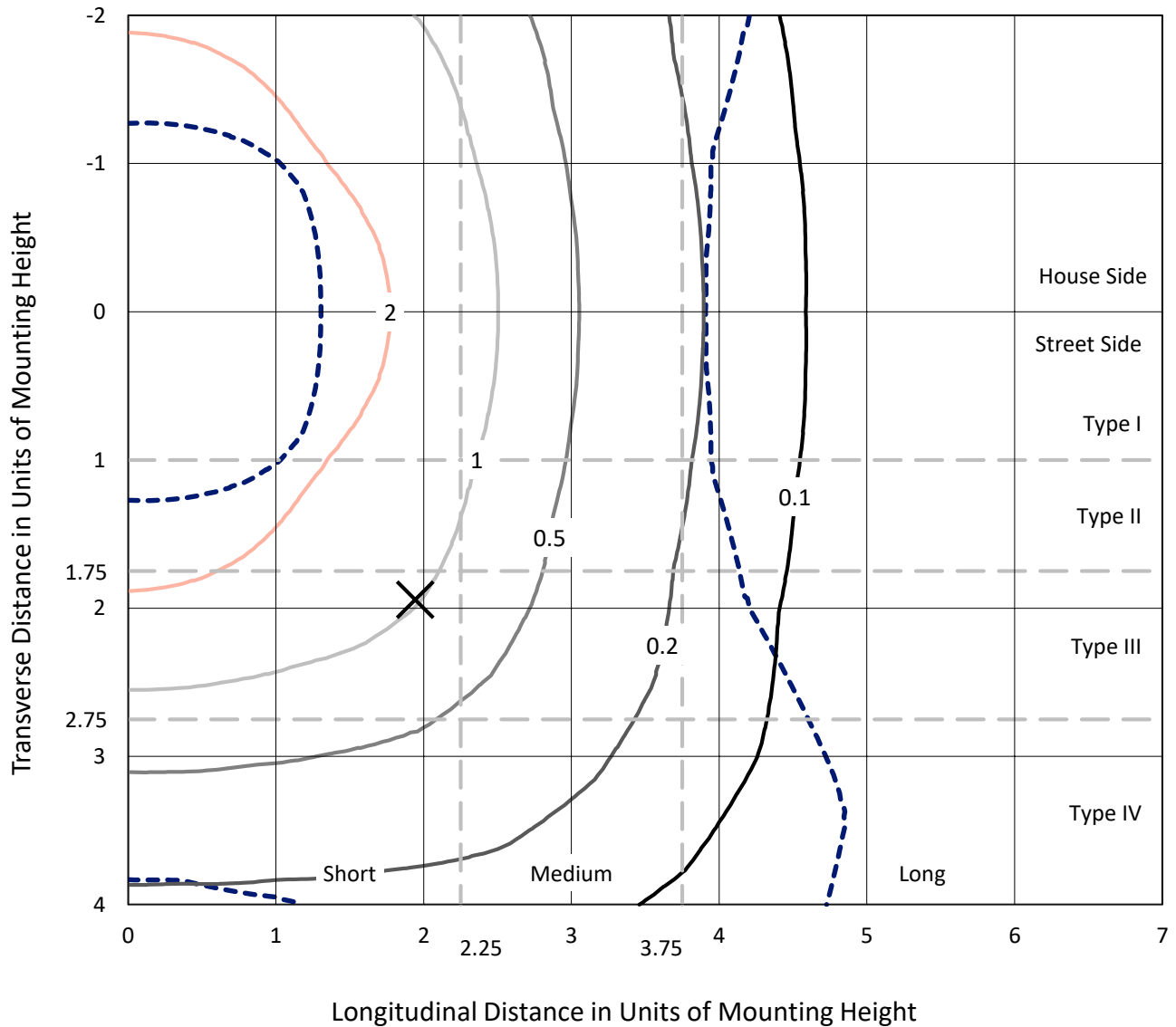
Input Watts (W): 477
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

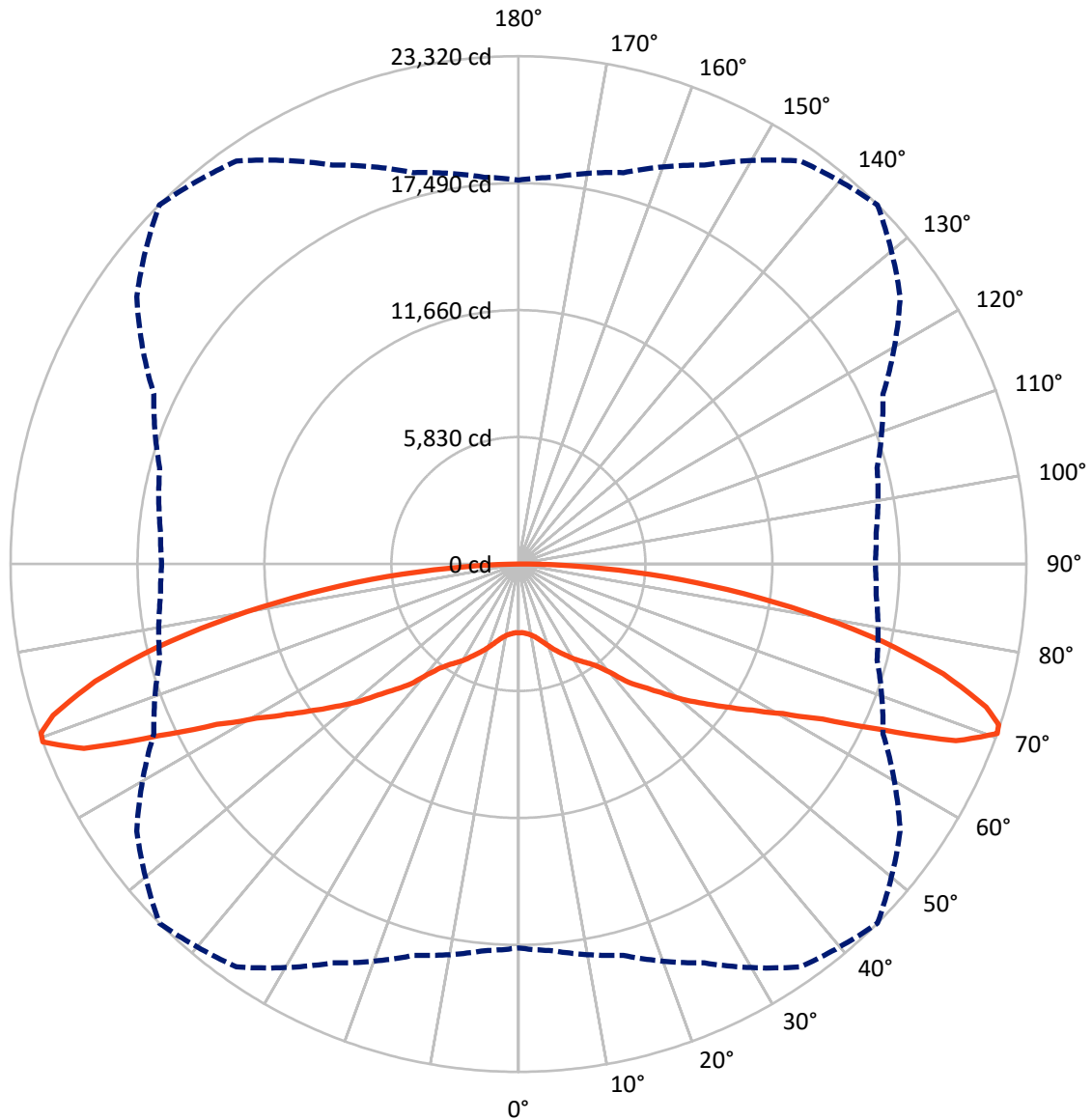


Based on 30 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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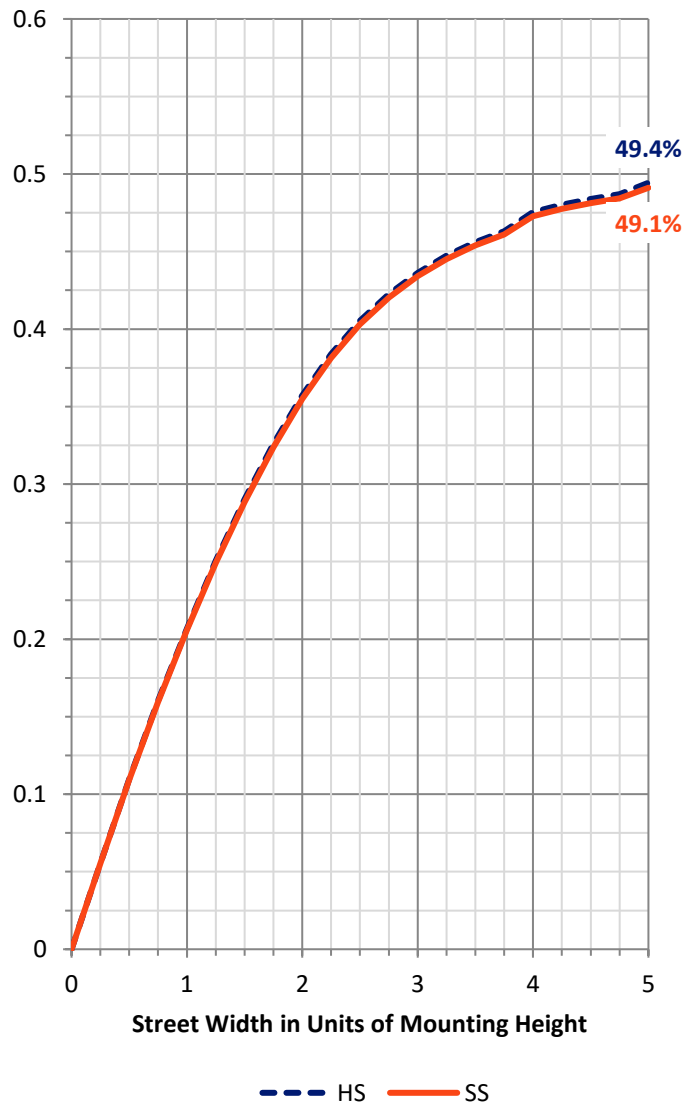
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31083.0	0.0	31083.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31083.0	0.0	31083.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	62166.0	0.0	62166.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.7	0.5
10°-20°	1030.9	1.7
20°-30°	2059.9	3.3
30°-40°	3542.4	5.7
40°-50°	6553.4	10.5
50°-60°	11138.8	17.9
60°-70°	17954.4	28.9
70°-80°	15868.6	25.5
80°-90°	3707.9	6.0
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°	62166.0	100.0
0°-180°	62166.0	100.0



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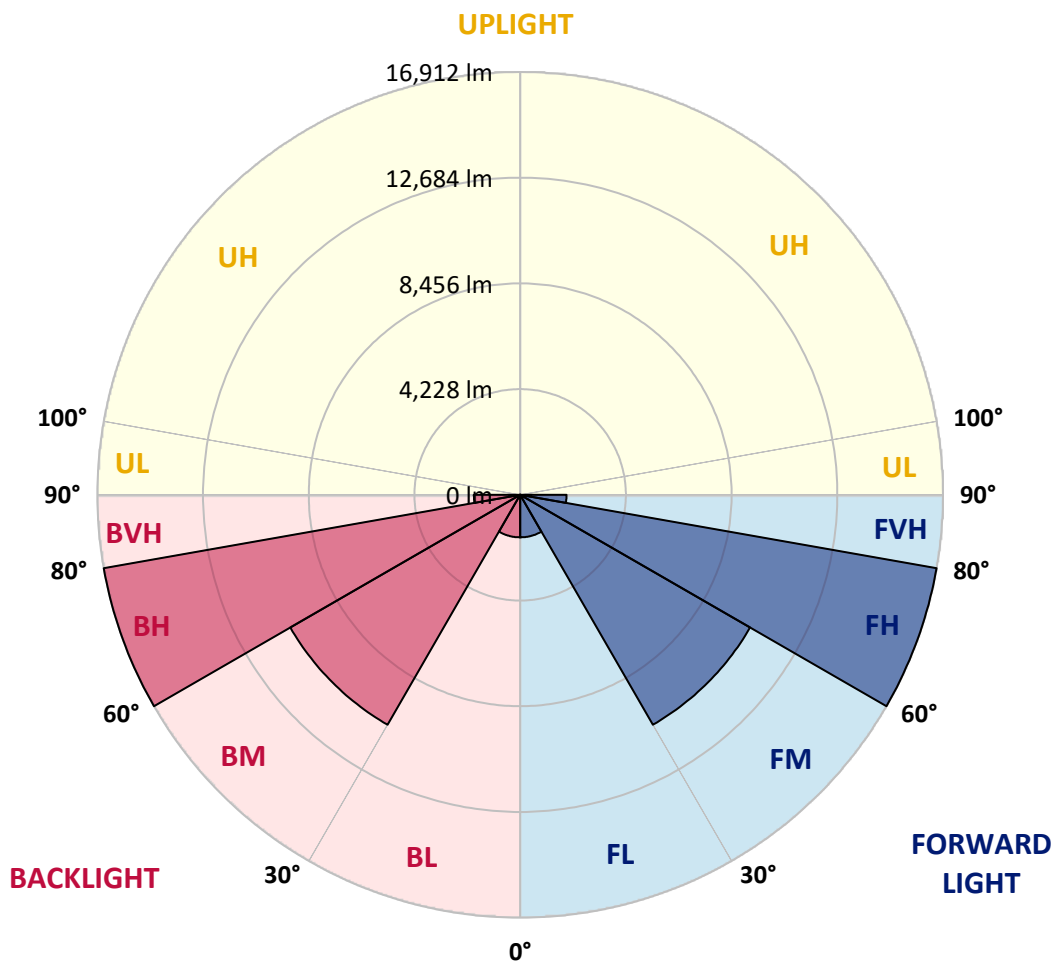
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1700.3	2.7			
FM	(30°-60°)	10617.3	17.1			
FH	(60°-80°)	16911.5	27.2			G5
FVH	(80°-90°)	1854.0	3.0			G5
BL	(0°-30°)	1700.3	2.7	B3/2500		
BM	(30°-60°)	10617.3	17.1	B5		
BH	(60°-80°)	16911.5	27.2	B5		G5
BVH	(80°-90°)	1854.0	3.0			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3158.5	3158.5	3158.5	3158.5	3158.5	3158.5	3158.5	3158.5	3158.5	3158.5	3158.5
2.5°	3185.9	3180.0	3182.0	3182.0	3146.8	3154.6	3156.5	3178.1	3178.1	3187.8	3189.8
5°	3217.2	3207.4	3209.4	3217.2	3183.9	3189.8	3189.8	3211.3	3207.4	3219.1	3225.0
7.5°	3271.9	3264.1	3264.1	3271.9	3232.8	3242.6	3236.7	3256.3	3248.5	3254.3	3266.1
10°	3359.9	3358.0	3352.1	3356.0	3313.0	3318.9	3307.1	3328.7	3313.0	3315.0	3336.5
12.5°	3461.6	3459.7	3459.7	3465.6	3428.4	3438.2	3418.6	3426.4	3399.1	3403.0	3420.6
15°	3586.8	3590.7	3594.6	3612.2	3588.8	3598.5	3569.2	3565.3	3534.0	3534.0	3555.5
17.5°	3758.9	3758.9	3760.9	3800.0	3786.3	3801.9	3760.9	3733.5	3702.2	3706.1	3710.0
20°	3974.0	3966.2	3970.1	4017.1	4021.0	4032.7	3968.2	3931.0	3897.8	3899.7	3895.8
22.5°	4202.9	4187.2	4185.3	4249.8	4277.2	4281.1	4191.1	4155.9	4112.9	4118.8	4114.9
25°	4421.9	4406.3	4398.4	4451.2	4523.6	4519.7	4421.9	4371.1	4351.5	4351.5	4355.4
27.5°	4639.0	4619.4	4611.6	4642.9	4756.3	4775.9	4646.8	4601.8	4582.3	4599.9	4607.7
30°	4858.0	4842.4	4838.5	4848.3	4977.3	5063.4	4863.9	4844.3	4842.4	4858.0	4875.6
32.5°	5124.0	5122.1	5106.4	5104.5	5200.3	5325.5	5124.0	5135.7	5167.0	5202.2	5225.7
35°	5466.3	5462.4	5419.3	5438.9	5485.8	5603.2	5487.8	5495.6	5579.7	5632.5	5661.8
37.5°	5922.0	5892.6	5837.9	5839.8	5863.3	5982.6	5937.6	5998.2	6150.8	6248.6	6238.8
40°	6567.3	6520.4	6438.3	6414.8	6410.9	6581.0	6624.1	6761.0	7001.5	7146.2	7136.5
42.5°	7490.4	7441.6	7316.4	7283.1	7296.8	7429.8	7555.0	7772.1	7981.3	8149.5	8139.7
45°	8437.0	8374.4	8173.0	8059.6	7961.8	8063.5	8259.0	8599.3	8849.7	9070.7	9066.8
47.5°	9532.2	9434.4	9191.9	8974.8	8779.3	8816.4	9025.7	9414.9	9718.0	9939.0	9925.3
50°	10721.3	10623.5	10357.5	10030.9	9727.8	9753.2	9854.9	10265.6	10566.8	10781.9	10785.9
52.5°	11992.5	11922.1	11617.0	11184.8	10768.3	10625.5	10690.0	11069.4	11415.6	11619.0	11636.6
55°	13363.5	13295.1	12974.3	12475.6	11904.5	11583.8	11581.8	11963.2	12313.3	12491.2	12518.6
57.5°	14738.4	14701.2	14419.6	13875.9	13156.2	12665.3	12553.8	12950.8	13343.9	13527.8	13564.9
60°	16154.3	16103.5	15868.8	15413.1	14623.0	13950.2	13762.5	14159.5	14603.4	14793.1	14816.6
62.5°	17758.0	17707.2	17527.3	17046.1	16463.3	15685.0	15413.1	15778.8	16189.5	16492.7	16461.4
65°	19361.7	19350.0	19426.3	19209.2	18763.3	18317.4	17781.5	18182.4	18485.6	18456.2	18446.4
67.5°	19105.5	19179.8	19707.9	20460.8	21401.6	21667.5	20429.6	19307.0	18645.9	18262.6	18141.4
70°	17630.9	17822.6	18604.9	20210.5	22582.8	23320.1	21395.7	18469.9	17050.1	16490.7	16383.2
71°	16817.3	16967.9	17869.5	19831.1	22590.6	23255.6	21166.9	17840.2	16396.8	15630.2	15555.9
72.5°	15233.2	15465.9	16461.4	18792.6	21904.2	22463.5	20169.4	16666.7	15155.0	14407.9	14366.8
75°	12178.3	12248.7	13533.7	16181.7	19723.5	20167.5	17904.7	14462.6	12903.9	12393.5	12364.1
77.5°	8595.4	8597.4	9829.5	12614.5	16351.9	17071.6	15507.0	11924.1	10349.7	9708.2	9565.5
80°	4552.9	4738.7	5961.1	8669.8	12248.7	13433.9	12323.1	9015.9	7277.3	6340.5	6209.4
82.5°	2075.0	2208.0	3000.1	4914.8	8055.7	9675.0	8454.6	5853.5	3899.7	2888.6	2804.5
85°	805.8	825.3	1238.0	2335.1	4504.0	6068.6	4922.6	2743.9	1357.3	829.2	768.6
87.5°	264.0	281.6	402.9	899.6	1916.6	2423.1	1902.9	825.3	264.0	164.3	158.4
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)