

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: P232763

Luminaire Tested: **CTN-10-4-D-E1-T5N-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232763
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-10-4-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: 46340 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 308
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

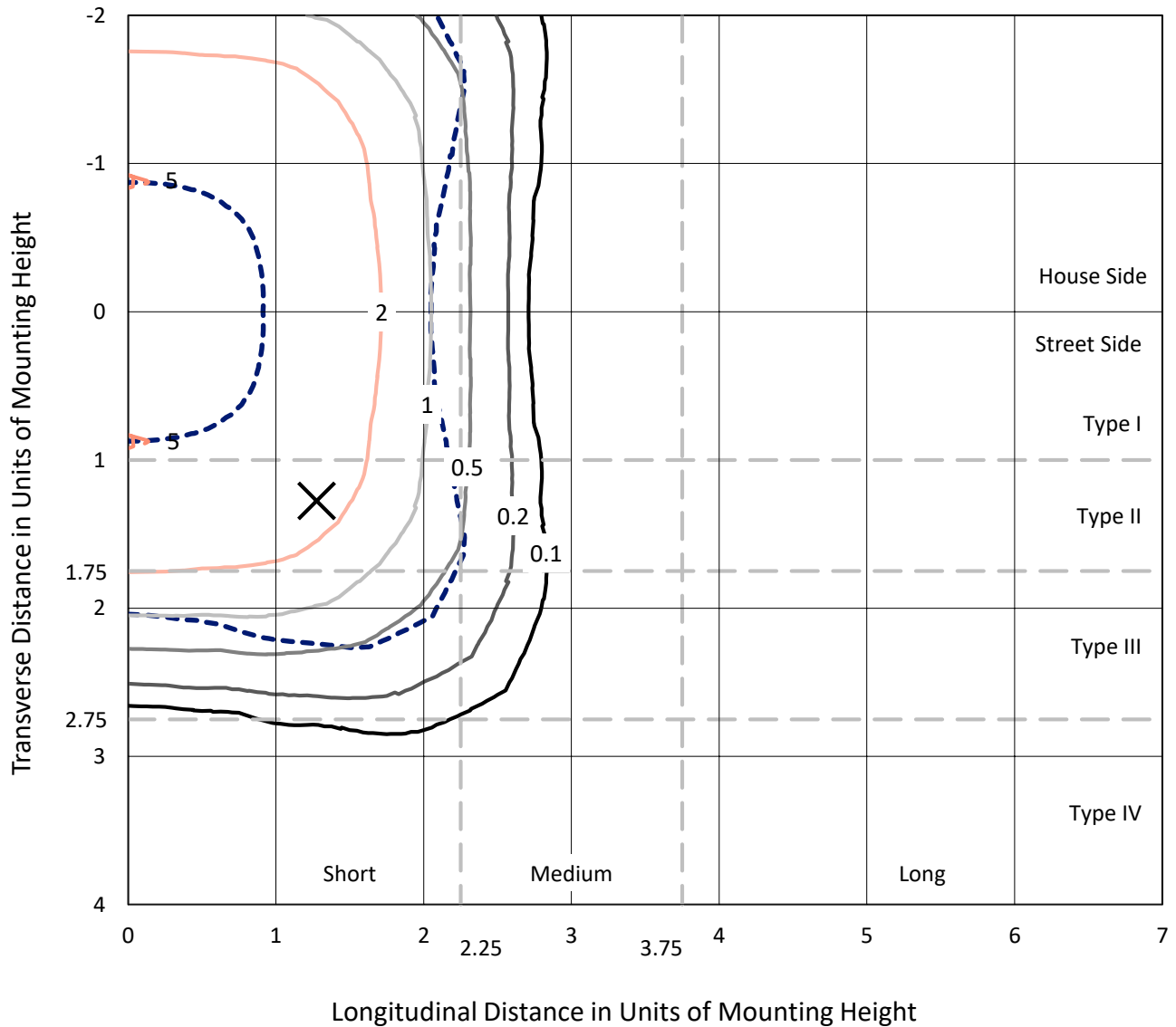


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

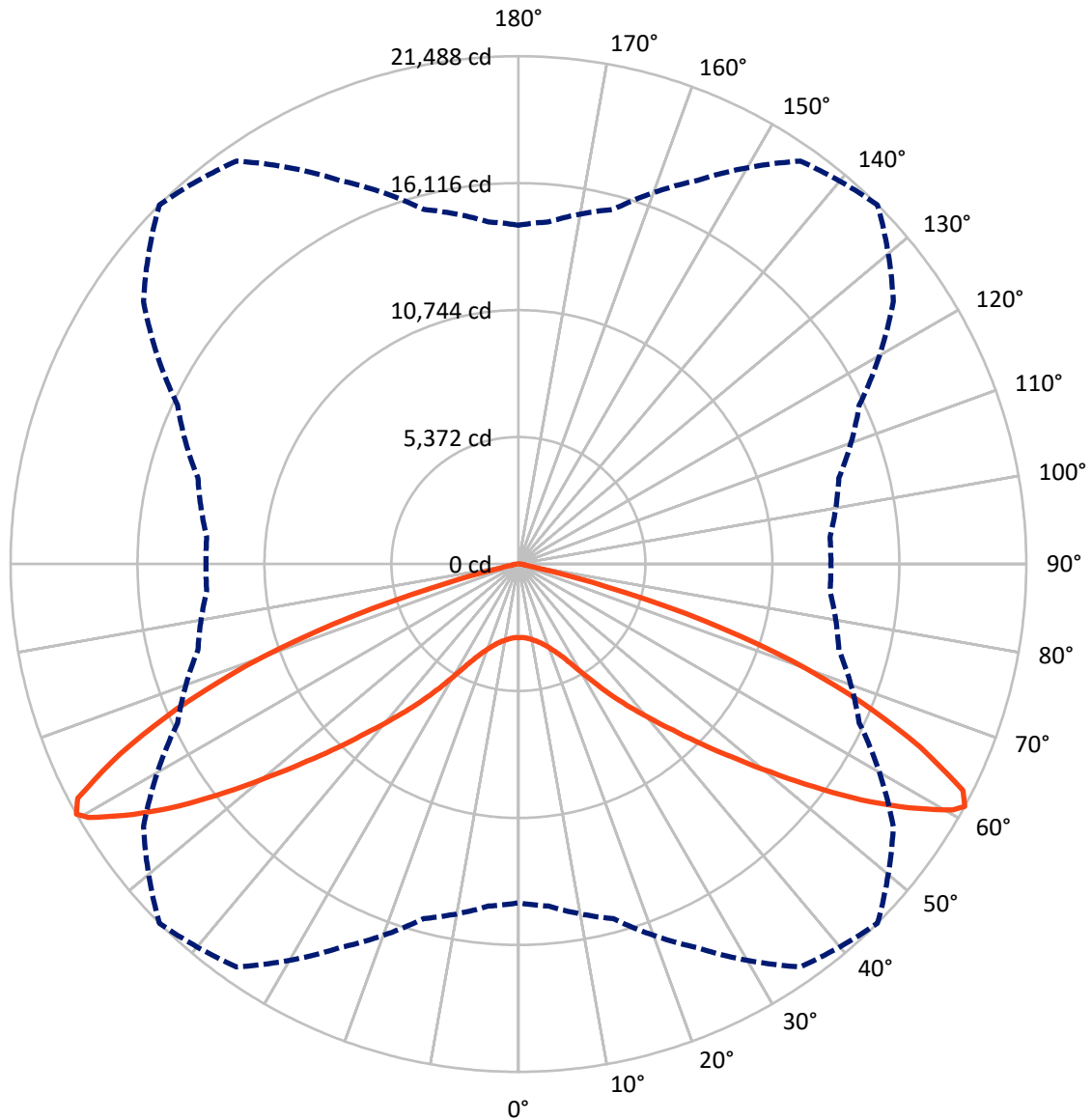


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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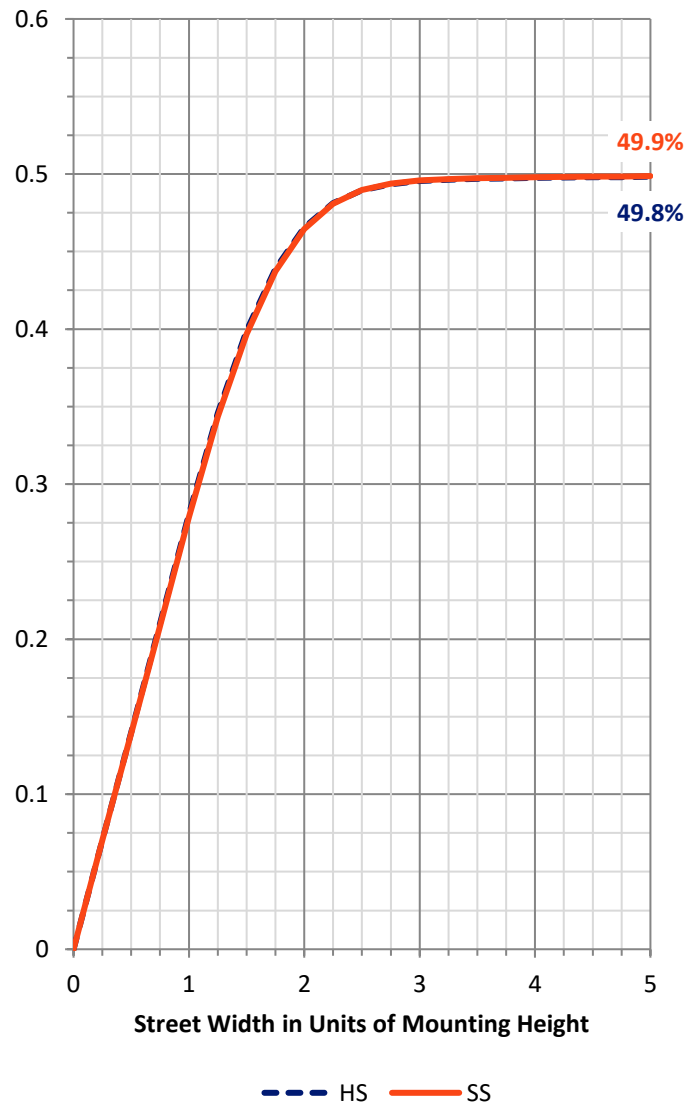
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23170.0	0.0	23170.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23170.0	0.0	23170.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	46340.0	0.0	46340.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	0.7
10°-20°	998.6	2.2
20°-30°	2130.6	4.6
30°-40°	4640.6	10.0
40°-50°	8974.2	19.4
50°-60°	14251.3	30.8
60°-70°	12851.7	27.7
70°-80°	2011.6	4.3
80°-90°	176.8	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°	46340.0	100.0
0°-180°	46340.0	100.0



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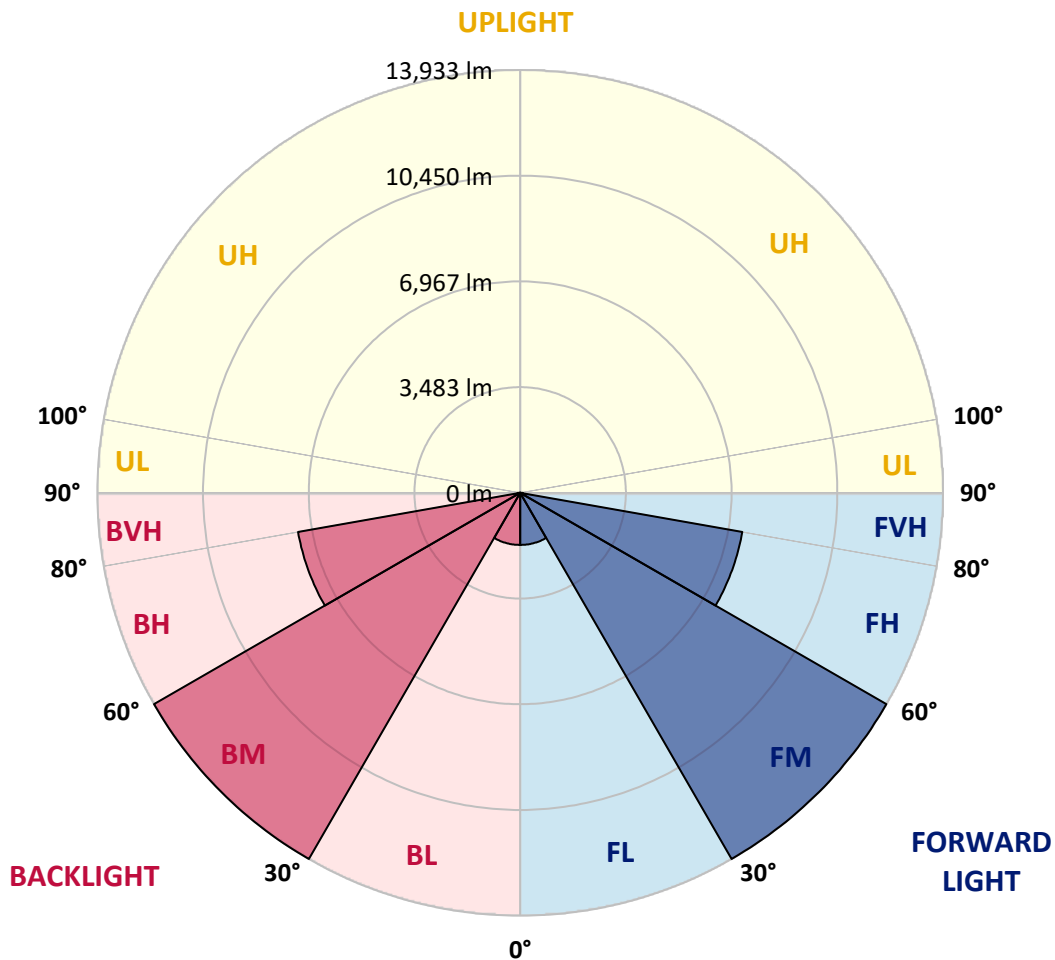
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1717.0	3.7			
FM	(30°-60°)	13933.0	30.1			
FH	(60°-80°)	7431.6	16.0			G3/7500
FVH	(80°-90°)	88.4	0.2			G1/100
BL	(0°-30°)	1717.0	3.7	B3/2500		
BM	(30°-60°)	13933.0	30.1	B5		
BH	(60°-80°)	7431.6	16.0	B5		G3/7500
BVH	(80°-90°)	88.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4
2.5°	3140.8	3134.1	3139.5	3143.5	3096.6	3108.6	3107.3	3139.5	3132.8	3147.6	3155.6
5°	3162.3	3151.6	3158.3	3169.0	3124.7	3140.8	3140.8	3170.4	3159.6	3174.4	3189.2
7.5°	3201.2	3190.5	3198.6	3212.0	3170.4	3187.8	3189.2	3224.1	3209.3	3221.4	3244.2
10°	3265.7	3259.0	3261.6	3273.7	3234.8	3256.3	3256.3	3293.9	3277.8	3291.2	3319.4
12.5°	3340.8	3338.2	3340.8	3356.9	3320.7	3342.2	3342.2	3378.4	3367.7	3383.8	3410.6
15°	3440.2	3437.5	3438.8	3460.3	3430.8	3450.9	3454.9	3492.5	3489.8	3507.3	3531.4
17.5°	3581.1	3581.1	3579.8	3598.5	3579.8	3599.9	3607.9	3648.2	3664.3	3685.8	3700.6
20°	3795.9	3783.8	3777.1	3786.5	3771.7	3793.2	3806.6	3872.4	3899.2	3932.8	3944.8
22.5°	4076.4	4060.3	4038.8	4029.4	4009.3	4037.5	4064.3	4158.3	4197.2	4252.2	4265.6
25°	4463.0	4436.1	4395.8	4358.3	4312.6	4352.9	4402.6	4531.4	4611.9	4684.4	4695.2
27.5°	4991.8	4951.5	4889.8	4817.3	4736.8	4786.4	4858.9	5046.8	5156.9	5272.3	5289.8
30°	5673.7	5666.9	5570.3	5441.4	5334.1	5362.3	5452.2	5684.4	5858.9	5978.3	6011.9
32.5°	6583.7	6577.0	6414.6	6197.1	6044.1	6062.9	6146.1	6403.8	6621.3	6815.9	6822.6
35°	7668.2	7646.8	7418.6	7117.9	6872.3	6850.8	6932.7	7189.0	7485.7	7712.5	7735.3
37.5°	8907.1	8872.2	8609.1	8154.1	7774.3	7685.7	7743.4	8065.5	8409.1	8665.5	8691.0
40°	10120.5	10093.7	9801.0	9374.2	8818.5	8594.4	8598.4	9010.5	9387.6	9625.2	9677.6
42.5°	11289.6	11311.1	11030.5	10595.7	10014.5	9614.5	9619.8	10019.8	10410.4	10657.4	10725.9
45°	12489.6	12470.8	12207.7	11834.5	11299.0	10856.0	10705.7	11105.7	11493.6	11696.3	11770.1
47.5°	13472.1	13438.5	13261.3	13064.0	12666.7	12230.5	11966.1	12243.9	12511.0	12647.9	12723.1
50°	14328.4	14301.6	14284.1	14200.9	14112.3	13830.5	13395.6	13378.1	13435.8	13465.4	13533.8
52.5°	15053.2	15051.9	15145.9	15349.9	15568.7	15666.6	14913.6	14426.4	14227.8	14081.5	14107.0
55°	15599.5	15592.8	15859.9	16406.2	17179.4	17622.3	16510.9	15333.8	14810.3	14527.1	14524.4
57.5°	15880.1	15892.1	16434.4	17423.6	18857.2	19461.2	18046.4	16167.3	15270.7	14839.8	14834.5
60°	15139.1	15190.1	16253.2	18054.5	20340.3	21129.6	19304.1	16340.4	14771.4	14047.9	14029.1
61°	14336.5	14528.4	15533.8	17910.9	20810.1	21487.9	19364.5	15910.9	14035.8	13237.2	13219.7
62.5°	12571.4	12751.3	14289.5	17552.5	20777.9	21112.1	19020.9	15139.1	12881.5	11991.6	11955.3
65°	9121.9	9333.9	10990.3	15551.2	18888.0	18689.4	17301.5	13367.4	10802.4	9801.0	9755.4
67.5°	4586.4	4857.6	6716.6	11285.6	15345.8	15723.0	14771.4	10583.6	7656.1	5781.0	5775.7
70°	1185.2	1300.6	2421.4	5935.4	11066.8	12315.1	11262.7	6131.4	2977.1	1795.9	1684.5
72.5°	331.5	347.6	657.7	2162.4	6293.8	8250.8	6105.9	2143.6	671.1	382.5	350.3
75°	233.6	237.6	261.7	547.6	2377.1	3850.9	1967.7	463.1	268.4	253.7	253.7
77.5°	208.0	210.7	226.8	295.3	498.0	865.7	377.2	299.3	236.2	228.2	225.5
80°	220.1	222.8	232.2	285.9	292.6	311.4	261.7	259.1	234.9	240.3	237.6
82.5°	236.2	241.6	253.7	292.6	251.0	252.3	214.8	213.4	208.0	236.2	237.6
85°	209.4	218.8	228.2	256.4	206.7	169.1	175.8	139.6	149.0	177.2	170.5
87.5°	116.8	115.4	111.4	116.8	104.7	84.6	71.1	64.4	59.1	67.1	65.8
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)