

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: P510542

Luminaire Tested: **CTN-CA10-630-730-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-730-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 93464 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

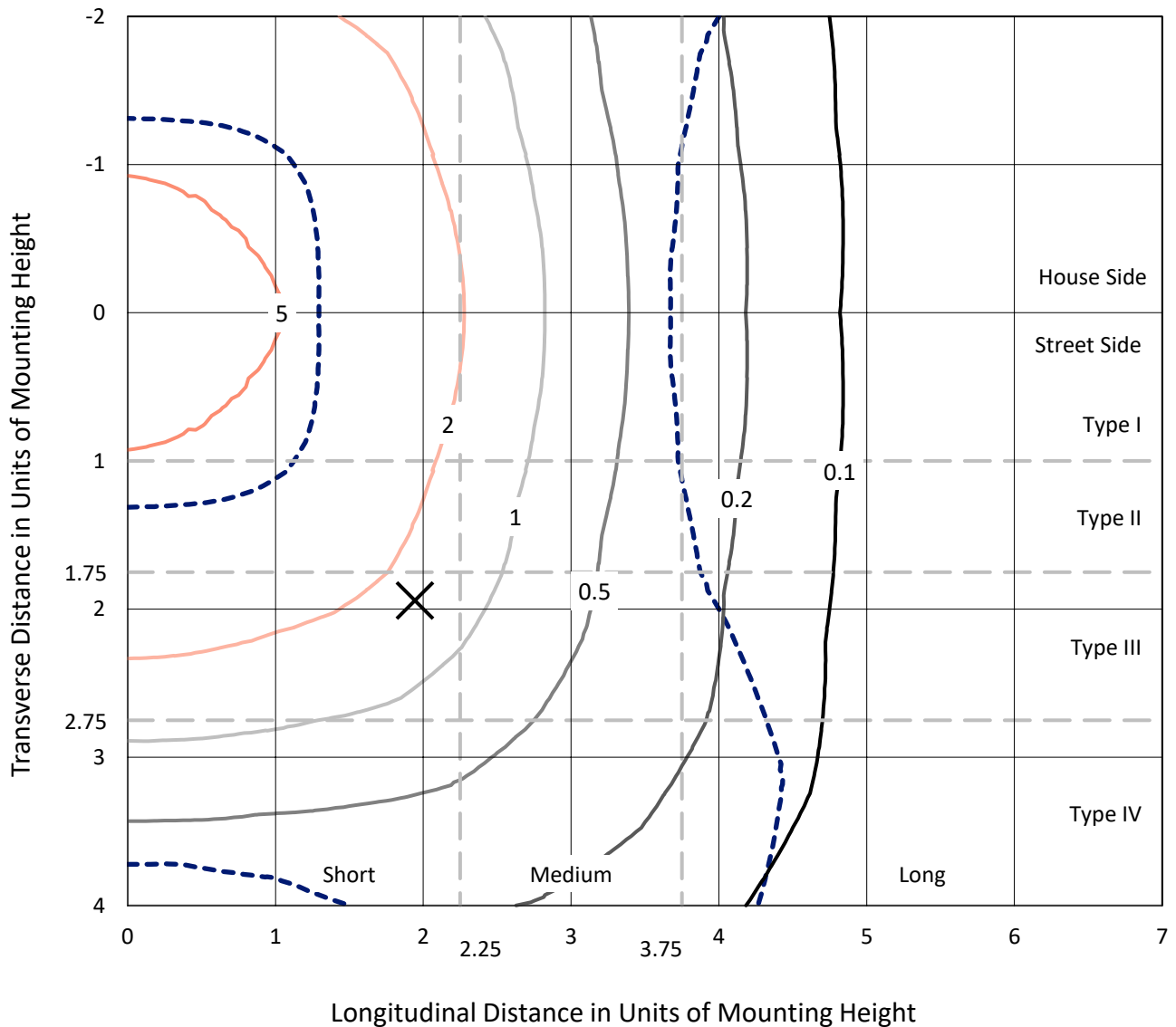
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

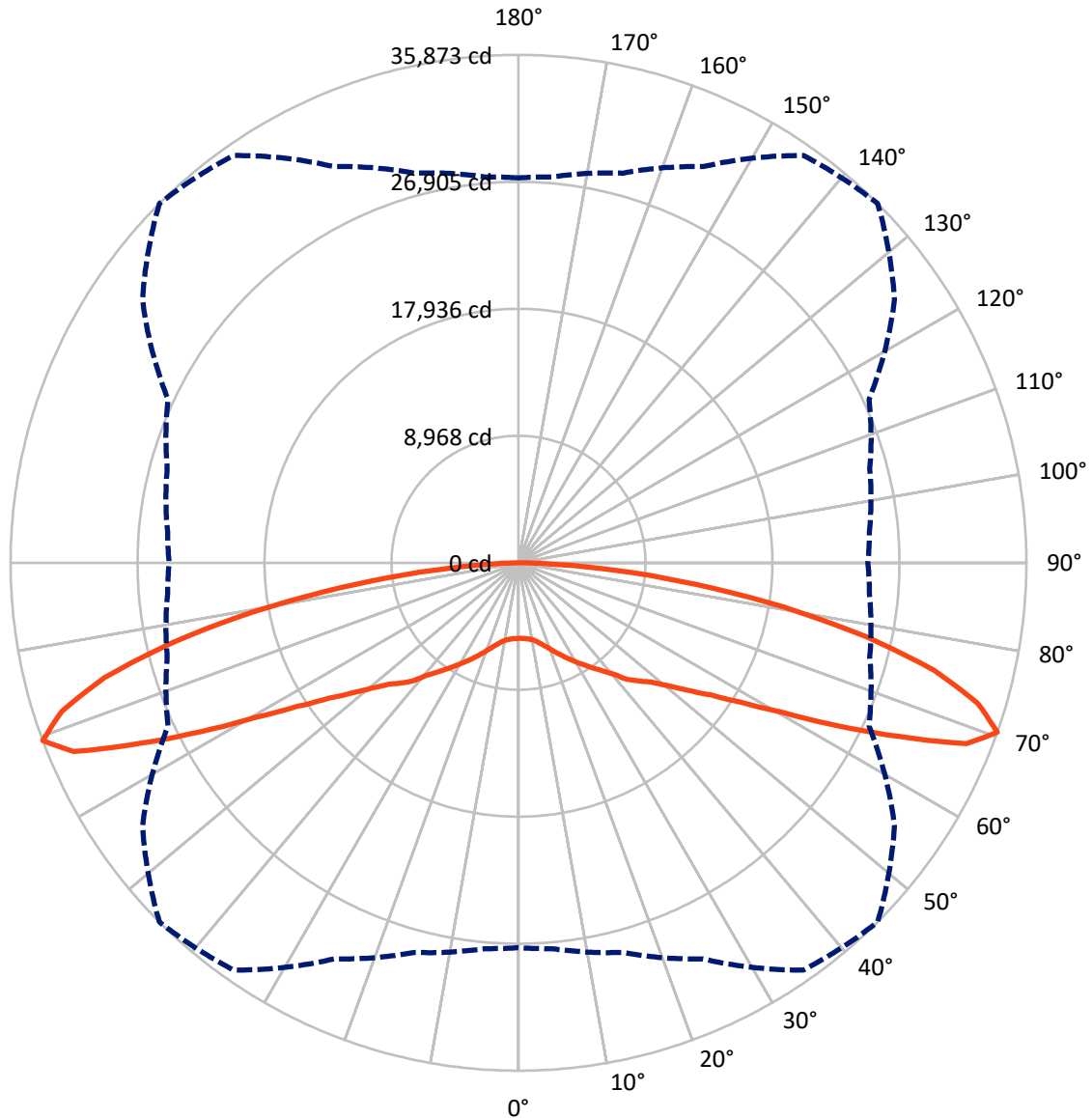
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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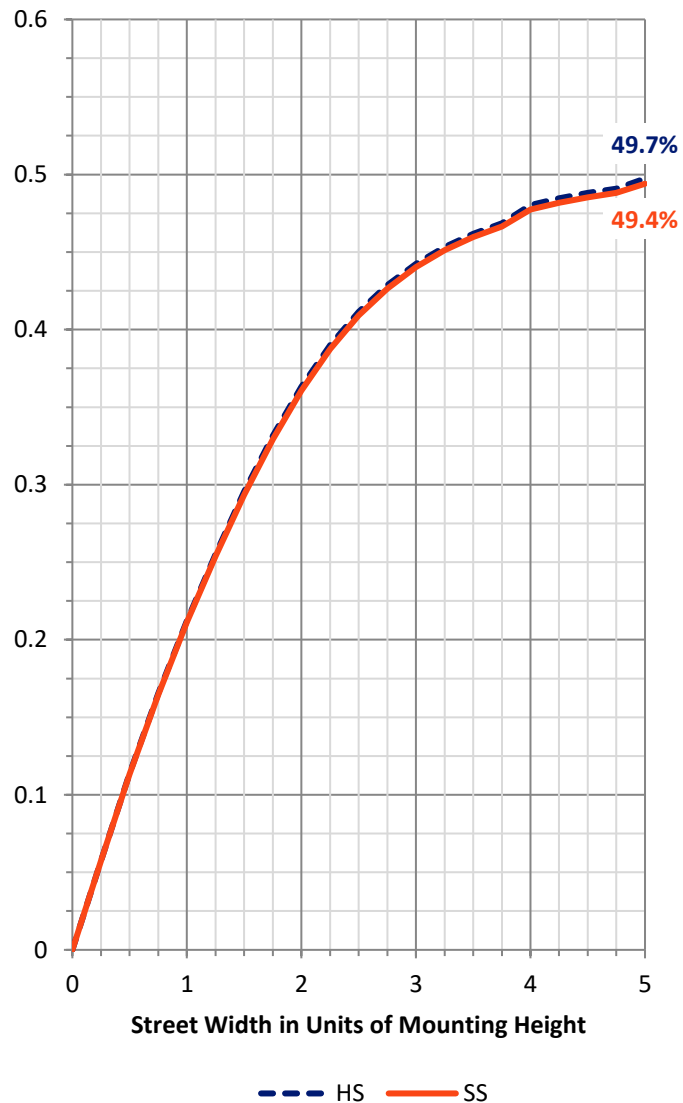
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	46732.0	0.0	46732.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	46732.0	0.0	46732.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	93464.0	0.0	93464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.2	0.6
10°-20°	1691.0	1.8
20°-30°	3347.5	3.6
30°-40°	5790.9	6.2
40°-50°	9635.2	10.3
50°-60°	16805.3	18.0
60°-70°	27820.4	29.8
70°-80°	23315.7	24.9
80°-90°	4538.8	4.9
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°	93464.0	100.0
0°-180°	93464.0	100.0

Coefficient of Utilization



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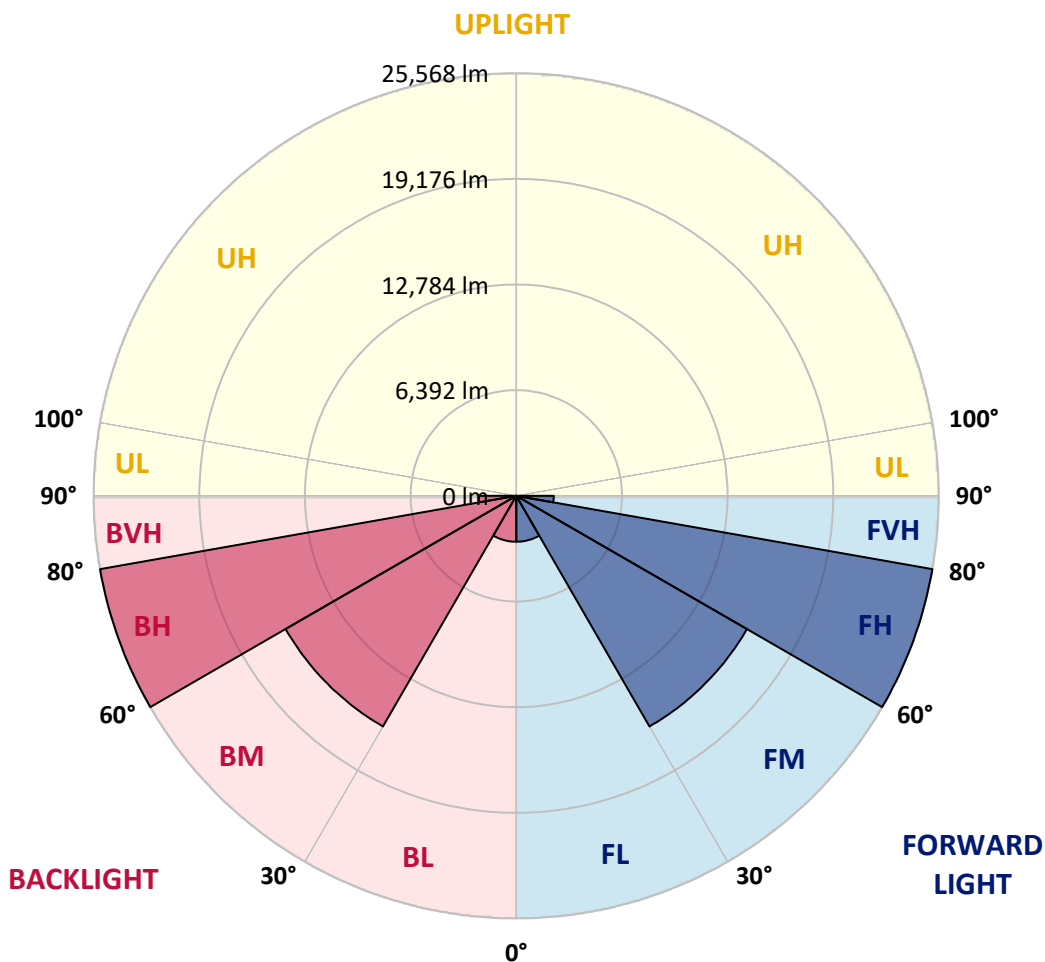
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2778.9	3.0			
FM (30°-60°)	16115.7	17.2			
FH (60°-80°)	25568.0	27.4			G5
FVH (80°-90°)	2269.4	2.4			G5
BL (0°-30°)	2778.9	3.0	B4/5000		
BM (30°-60°)	16115.7	17.2	B5		
BH (60°-80°)	25568.0	27.4	B5		G5
BVH (80°-90°)	2269.4	2.4			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°	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8
2.5°	5375.1	5358.4	5352.9	5347.3	5351.0	5349.2	5358.4	5362.1	5365.8	5382.5	5373.2
5°	5408.4	5395.4	5393.6	5386.2	5384.3	5384.3	5397.3	5399.1	5401.0	5412.1	5401.0
7.5°	5469.5	5456.5	5452.8	5449.1	5447.3	5439.9	5449.1	5445.4	5449.1	5454.7	5441.7
10°	5565.7	5550.9	5547.2	5538.0	5543.5	5532.4	5539.8	5530.6	5513.9	5517.6	5499.1
12.5°	5697.1	5684.2	5689.7	5687.9	5710.1	5704.5	5689.7	5671.2	5643.5	5625.0	5604.6
15°	5891.5	5871.1	5885.9	5900.7	5923.0	5932.2	5921.1	5871.1	5830.4	5800.8	5784.1
17.5°	6128.4	6095.1	6124.7	6154.3	6202.4	6211.7	6171.0	6109.9	6065.5	6052.5	6024.8
20°	6404.2	6398.6	6400.5	6448.6	6522.7	6535.6	6481.9	6409.7	6365.3	6367.2	6335.7
22.5°	6737.4	6707.7	6717.0	6765.1	6870.6	6905.8	6817.0	6737.4	6709.6	6717.0	6713.3
25°	7118.7	7090.9	7077.9	7100.1	7237.1	7298.2	7213.0	7120.5	7107.5	7124.2	7098.3
27.5°	7537.0	7511.0	7496.2	7507.3	7614.7	7729.5	7635.1	7557.3	7555.5	7579.5	7564.7
30°	8012.6	7973.8	7957.1	7970.1	8044.1	8155.2	8079.3	8033.0	8071.9	8088.5	8083.0
32.5°	8493.9	8475.4	8469.8	8466.1	8556.8	8619.7	8582.7	8592.0	8623.5	8699.3	8675.3
35°	9041.8	8988.1	9002.9	9014.0	9132.5	9138.0	9141.7	9158.4	9241.7	9349.0	9286.1
37.5°	9611.8	9598.9	9608.1	9576.7	9663.7	9698.8	9750.7	9806.2	9937.6	10061.6	10035.7
40°	10317.0	10293.0	10302.2	10265.2	10307.8	10335.6	10441.1	10561.4	10729.8	10863.1	10802.0
42.5°	11251.8	11190.7	11190.7	11201.8	11290.6	11261.0	11486.8	11520.1	11729.3	11842.2	11807.0
45°	12351.2	12329.0	12212.4	12016.2	11905.1	11903.3	12084.7	12354.9	12701.0	12936.1	12934.3
47.5°	13748.7	13680.2	13400.7	12928.7	12647.4	12578.9	12769.5	13295.2	13931.9	14298.4	14292.8
50°	15581.1	15494.1	15070.2	14337.3	13789.4	13620.9	13926.3	14607.5	15464.5	15953.1	15993.8
52.5°	17631.9	17639.3	17159.9	16051.2	15240.5	14937.0	15260.9	16234.4	17302.4	17972.5	18052.1
55°	20014.0	19956.7	19503.2	18246.4	17130.3	16478.8	16969.3	18259.4	19486.5	19997.4	20138.0
57.5°	22494.3	22270.3	21922.3	20747.0	19442.1	18609.2	19197.8	20460.1	21635.4	22287.0	22264.8
60°	24693.2	24545.1	24345.2	23408.6	22407.3	21455.9	21909.4	22977.4	23984.3	24378.5	24395.2
62.5°	27095.7	26971.7	26792.1	26279.4	25727.8	25374.3	24963.4	25457.6	26244.2	26675.5	26816.2
65°	29453.7	29409.3	29513.0	29435.2	29668.4	29616.6	28631.9	28321.0	28333.9	28211.8	28148.8
67.5°	29314.9	29298.3	29909.1	31127.0	33451.7	34110.7	31584.2	28770.8	27502.9	27180.8	27134.5
70°	27177.1	27356.6	28487.6	30871.5	35113.9	35872.7	32413.4	27306.7	25685.3	24878.3	24678.4
72.5°	23064.4	23416.0	25150.3	28661.5	33733.1	33907.1	30329.2	25104.1	22716.4	21753.9	21611.4
75°	17796.6	17841.0	19616.1	24078.7	30105.3	30323.7	27054.9	21056.1	18707.3	17509.7	17472.7
77.5°	10839.0	11470.2	14059.6	18053.9	23932.4	25068.9	22627.5	16771.2	13978.2	12917.6	12325.3
80°	5317.7	5606.4	7472.2	11414.6	17106.2	19010.8	16791.6	11599.7	8621.6	7276.0	7127.9
82.5°	2421.0	2574.6	3535.3	5967.4	10322.6	12682.5	10363.3	6643.0	4603.2	3600.0	3566.7
85°	940.3	934.7	1430.8	2504.3	4942.0	7022.4	5247.4	3168.8	2106.4	1565.9	1477.0
87.5°	273.9	292.4	420.2	821.8	1464.1	1973.1	1617.7	1095.7	647.8	416.5	383.1
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)