

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: P510552

Luminaire Tested: **CTN-CA10-630-740-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510552  
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-CA10-630-740-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 95187 lumens  
Efficiency: N/A  
Efficacy: 150.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

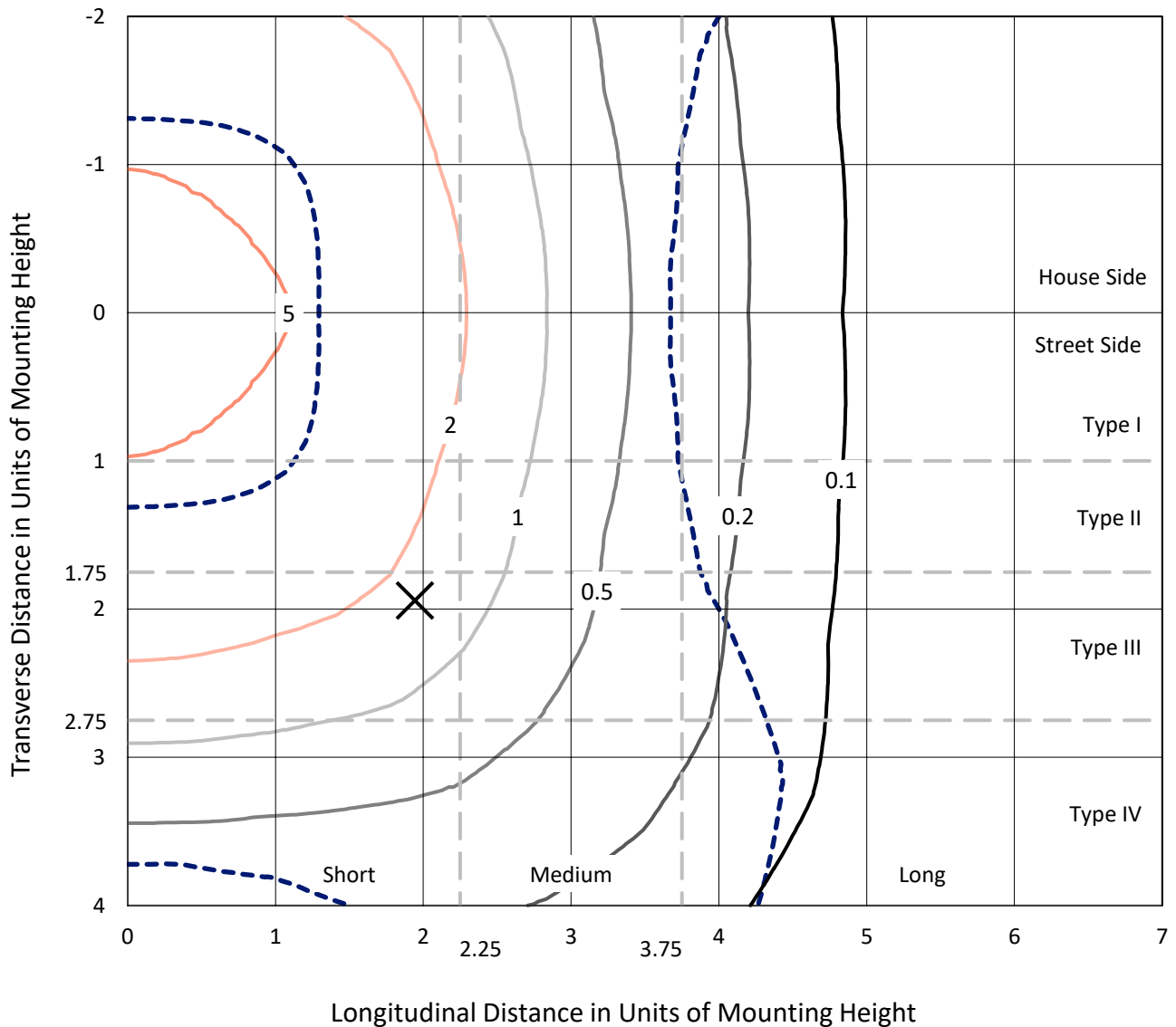
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P510552  
 CATALOG NUMBER: CTN-CA10-630-740-U-T5

### Iso-Footcandle Lines of Horizontal Illumination

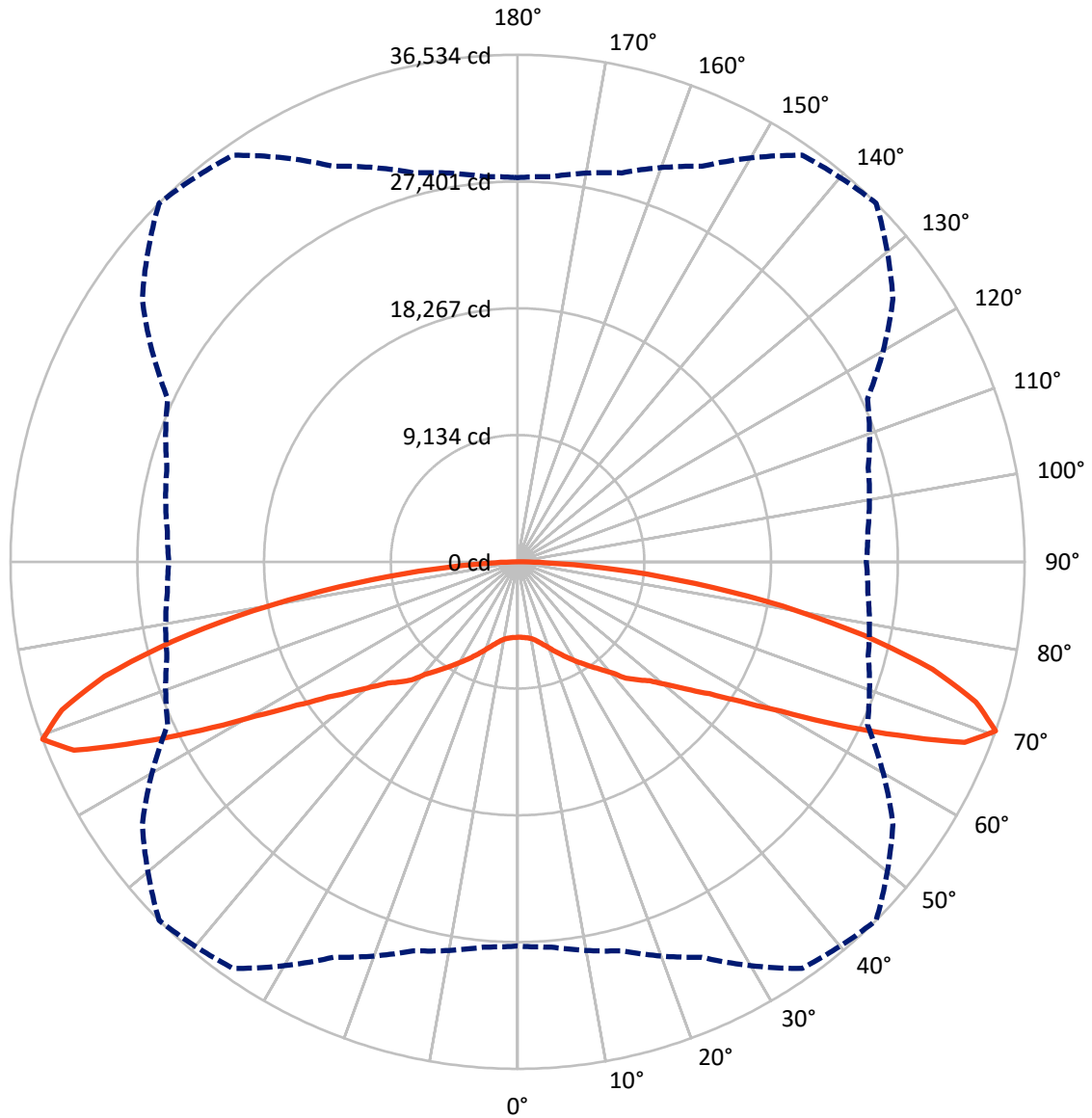
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P510552  
CATALOG NUMBER: CTN-CA10-630-740-U-T5

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P510552  
 CATALOG NUMBER: CTN-CA10-630-740-U-T5

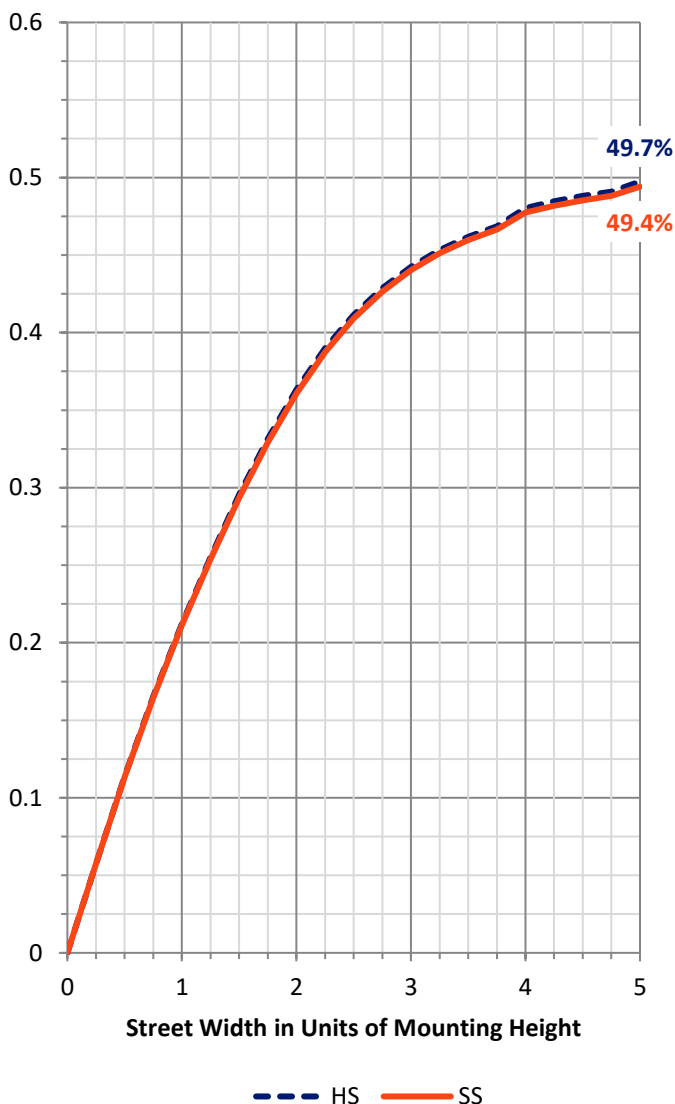
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	47593.5	0.0	47593.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	47593.5	0.0	47593.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	95187.0	0.0	95187.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.8	0.6
10°-20°	1722.2	1.8
20°-30°	3409.2	3.6
30°-40°	5897.7	6.2
40°-50°	9812.8	10.3
50°-60°	17115.1	18.0
60°-70°	28333.3	29.8
70°-80°	23745.5	24.9
80°-90°	4622.5	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°	95187.0	100.0
0°-180°	95187.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P510552

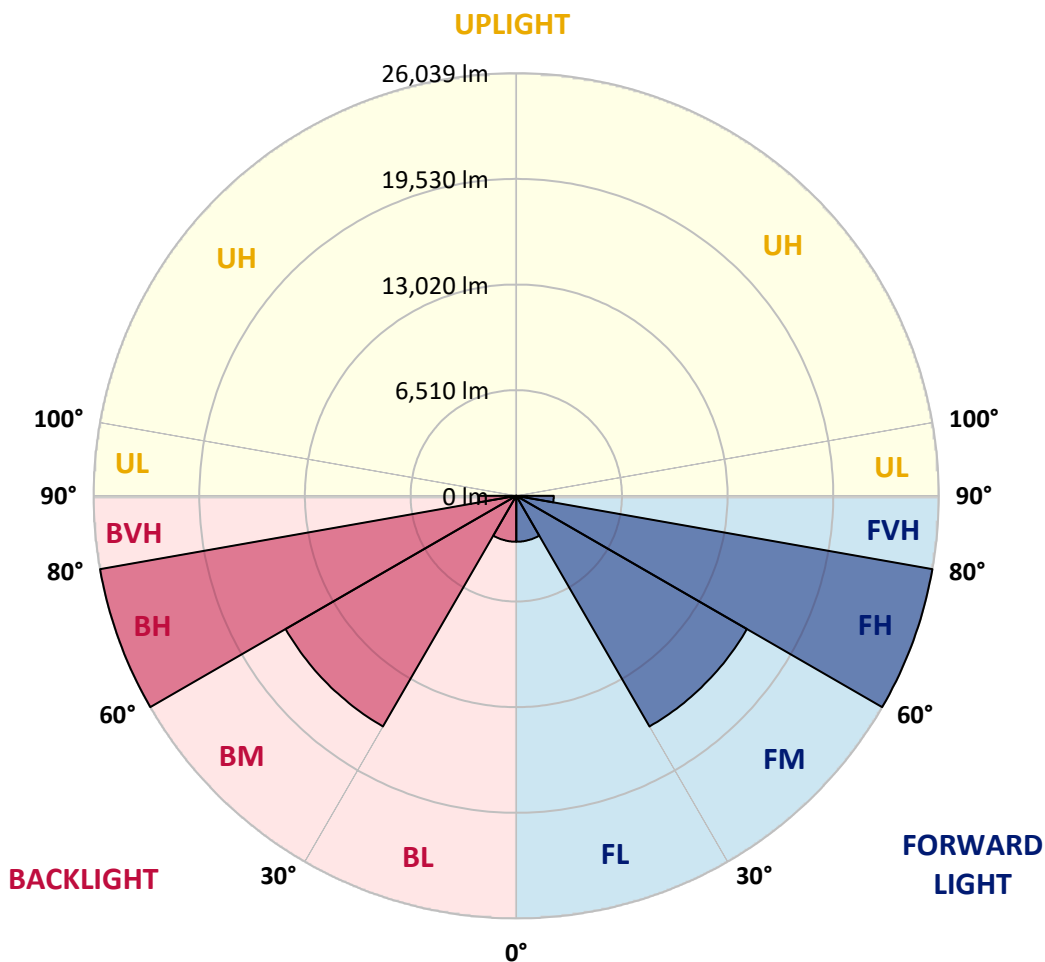
CATALOG NUMBER: CTN-CA10-630-740-U-T5

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2830.1	3.0			
FM (30°-60°)	16412.8	17.2			
FH (60°-80°)	26039.4	27.4			G5
FVH (80°-90°)	2311.2	2.4			G5
BL (0°-30°)	2830.1	3.0	B4/5000		
BM (30°-60°)	16412.8	17.2	B5		
BH (60°-80°)	26039.4	27.4	B5		G5
BVH (80°-90°)	2311.2	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





REPORT NUMBER: P510552  
 CATALOG NUMBER: CTN-CA10-630-740-U-T5

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2
2.5°	5474.2	5457.2	5451.5	5445.9	5449.7	5447.8	5457.2	5461.0	5464.7	5481.7	5472.3
5°	5508.1	5494.9	5493.0	5485.5	5483.6	5483.6	5496.8	5498.7	5500.6	5511.9	5500.6
7.5°	5570.3	5557.1	5553.3	5549.6	5547.7	5540.1	5549.6	5545.8	5549.6	5555.2	5542.0
10°	5668.3	5653.2	5649.5	5640.1	5645.7	5634.4	5641.9	5632.5	5615.5	5619.3	5600.5
12.5°	5802.2	5789.0	5794.6	5792.7	5815.4	5809.7	5794.6	5775.8	5747.5	5728.7	5707.9
15°	6000.1	5979.4	5994.4	6009.5	6032.1	6041.6	6030.3	5979.4	5937.9	5907.7	5890.8
17.5°	6241.4	6207.5	6237.6	6267.8	6316.8	6326.2	6284.7	6222.5	6177.3	6164.1	6135.8
20°	6522.3	6516.6	6518.5	6567.5	6642.9	6656.1	6601.4	6527.9	6482.7	6484.6	6452.5
22.5°	6861.6	6831.4	6840.8	6889.8	6997.3	7033.1	6942.6	6861.6	6833.3	6840.8	6837.1
25°	7249.9	7221.6	7208.4	7231.0	7370.5	7432.7	7346.0	7251.8	7238.6	7255.5	7229.1
27.5°	7675.9	7649.5	7634.4	7645.7	7755.1	7871.9	7775.8	7696.6	7694.8	7719.3	7704.2
30°	8160.4	8120.8	8103.8	8117.0	8192.4	8305.5	8228.2	8181.1	8220.7	8237.6	8232.0
32.5°	8650.5	8631.6	8626.0	8622.2	8714.6	8778.7	8741.0	8750.4	8782.4	8859.7	8835.2
35°	9208.4	9153.8	9168.9	9180.2	9300.8	9306.5	9310.2	9327.2	9412.0	9521.4	9457.3
37.5°	9789.0	9775.8	9785.3	9753.2	9841.8	9877.6	9930.4	9987.0	10120.8	10247.1	10220.7
40°	10507.2	10482.7	10492.2	10454.5	10497.8	10526.1	10633.5	10756.1	10927.6	11063.3	11001.1
42.5°	11459.2	11397.0	11397.0	11408.3	11498.8	11468.6	11698.6	11732.5	11945.5	12060.5	12024.7
45°	12578.9	12556.3	12437.5	12237.7	12124.6	12122.7	12307.5	12582.7	12935.2	13174.6	13172.7
47.5°	14002.1	13932.4	13647.7	13167.0	12880.5	12810.8	13004.9	13540.3	14188.7	14562.0	14556.3
50°	15868.3	15779.7	15348.0	14601.6	14043.6	13872.0	14183.1	14876.8	15749.6	16247.2	16288.7
52.5°	17956.9	17964.5	17476.3	16347.1	15521.5	15212.3	15542.2	16533.7	17621.4	18303.8	18384.8
55°	20383.0	20324.6	19862.7	18582.8	17446.1	16782.6	17282.1	18596.0	19845.8	20366.0	20509.3
57.5°	22909.0	22680.9	22326.5	21129.5	19800.5	18952.2	19551.7	20837.3	22034.3	22697.8	22675.2
60°	25148.4	24997.6	24794.0	23840.2	22820.4	21851.4	22313.3	23400.9	24426.4	24827.9	24844.9
62.5°	27595.2	27468.9	27286.0	26763.9	26202.1	25842.1	25423.6	25926.9	26728.1	27167.3	27310.5
65°	29996.7	29951.5	30057.0	29977.9	30215.4	30162.6	29159.8	28843.1	28856.3	28731.9	28667.8
67.5°	29855.3	29838.4	30460.4	31700.8	34068.4	34739.5	32166.4	29301.1	28009.9	27681.9	27634.8
70°	27678.1	27861.0	29012.7	31440.7	35761.2	36534.1	33010.9	27810.1	26158.8	25336.9	25133.3
72.5°	23489.5	23847.7	25614.0	29189.9	34354.9	34532.1	30888.3	25566.9	23135.2	22154.9	22009.8
75°	18124.7	18169.9	19977.7	24522.5	30660.3	30882.7	27553.7	21444.3	19052.1	17832.5	17794.8
77.5°	11038.8	11681.6	14318.8	18386.7	24373.6	25531.0	23044.7	17080.4	14235.9	13155.7	12552.5
80°	5415.7	5709.8	7609.9	11625.1	17421.6	19361.3	17101.1	11813.6	8780.5	7410.1	7259.3
82.5°	2465.6	2622.1	3600.4	6077.4	10512.9	12916.3	10554.4	6765.4	4688.1	3666.4	3632.5
85°	957.6	951.9	1457.1	2550.5	5033.1	7151.9	5344.1	3227.2	2145.2	1594.7	1504.3
87.5°	279.0	297.8	427.9	837.0	1491.1	2009.5	1647.5	1115.9	659.8	424.1	390.2
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)