

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: P510672

Luminaire Tested: **CTN-CA6-230-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510672
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-CA6-230-740-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35544 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

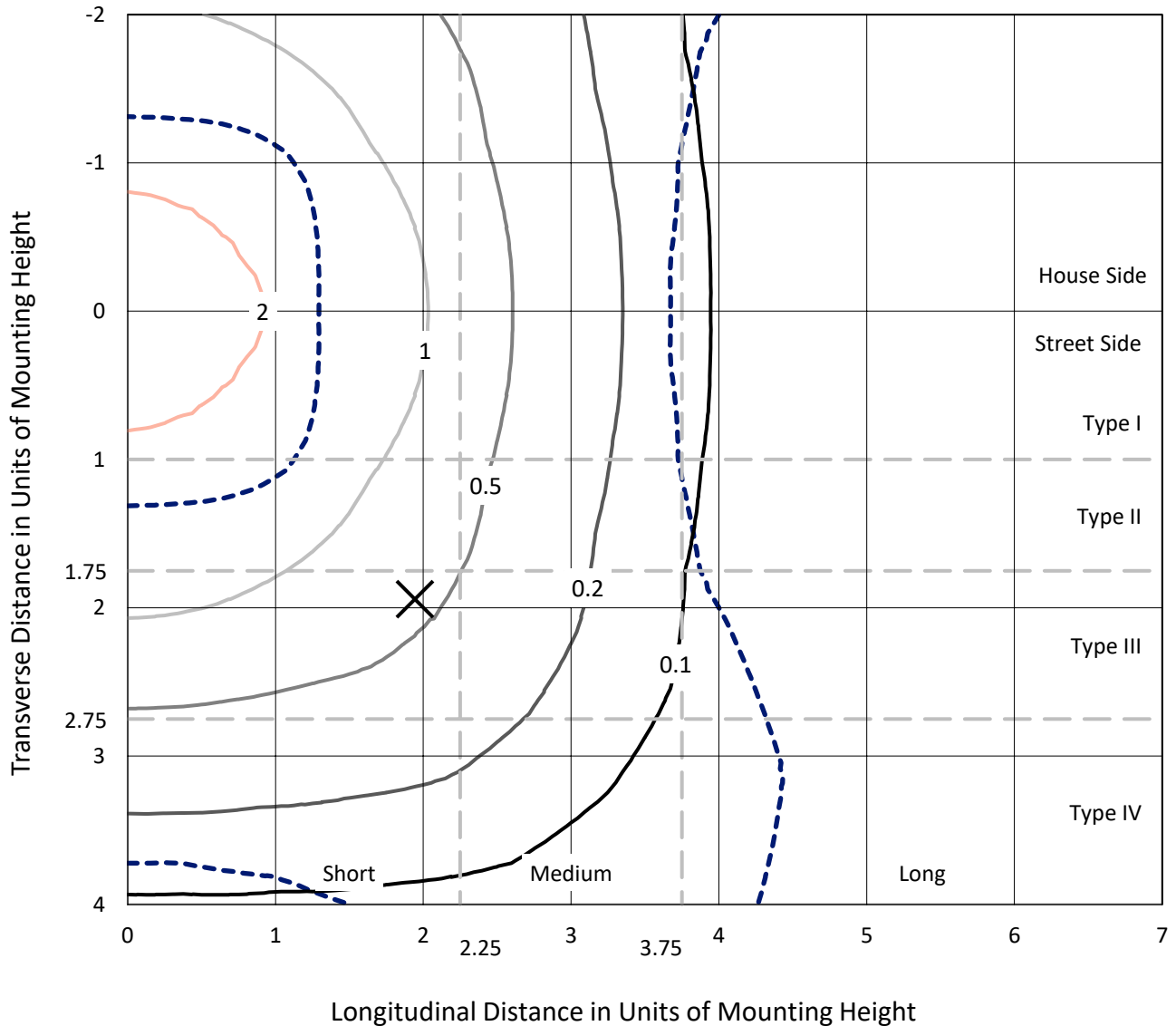
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

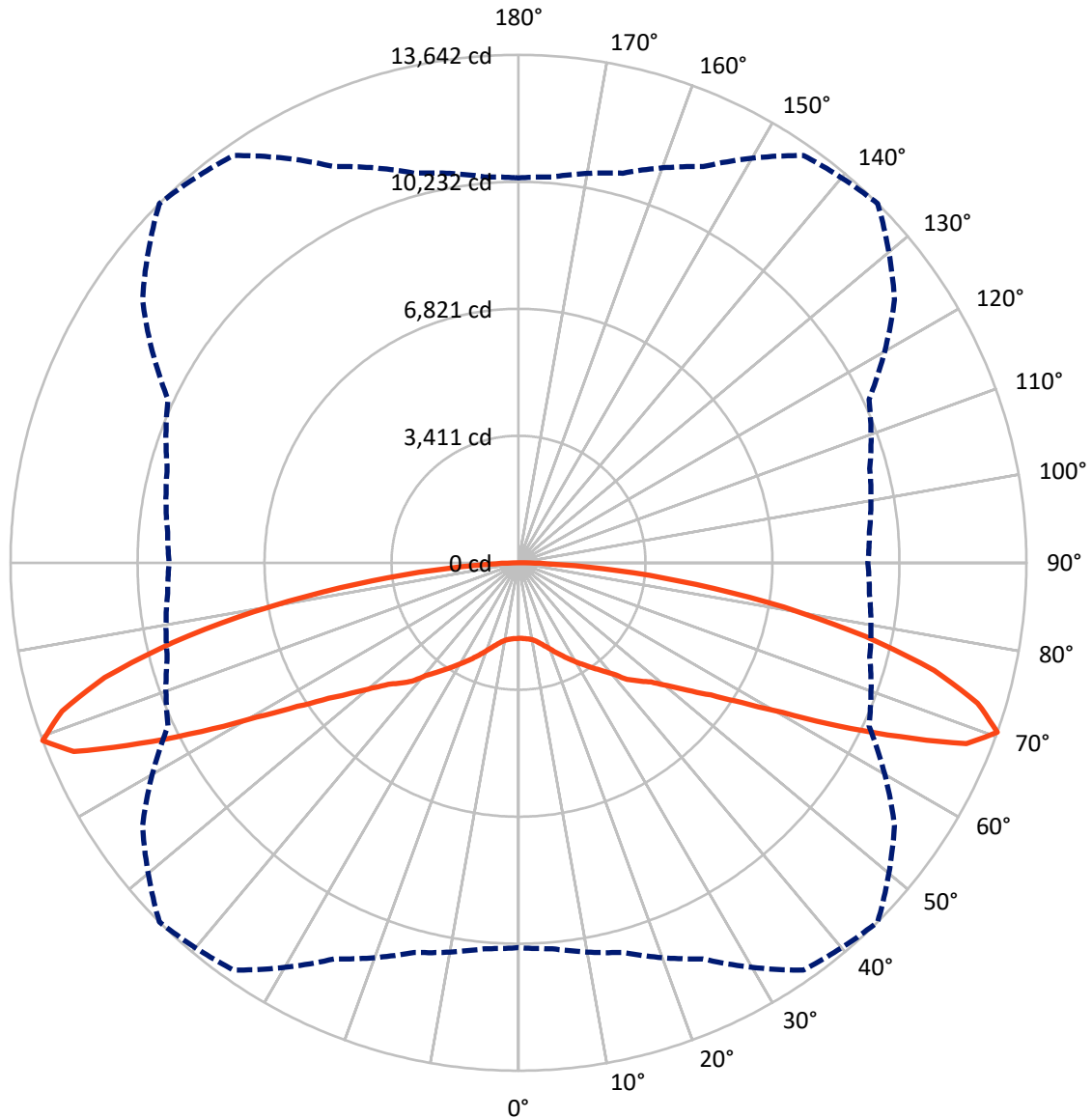
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.3 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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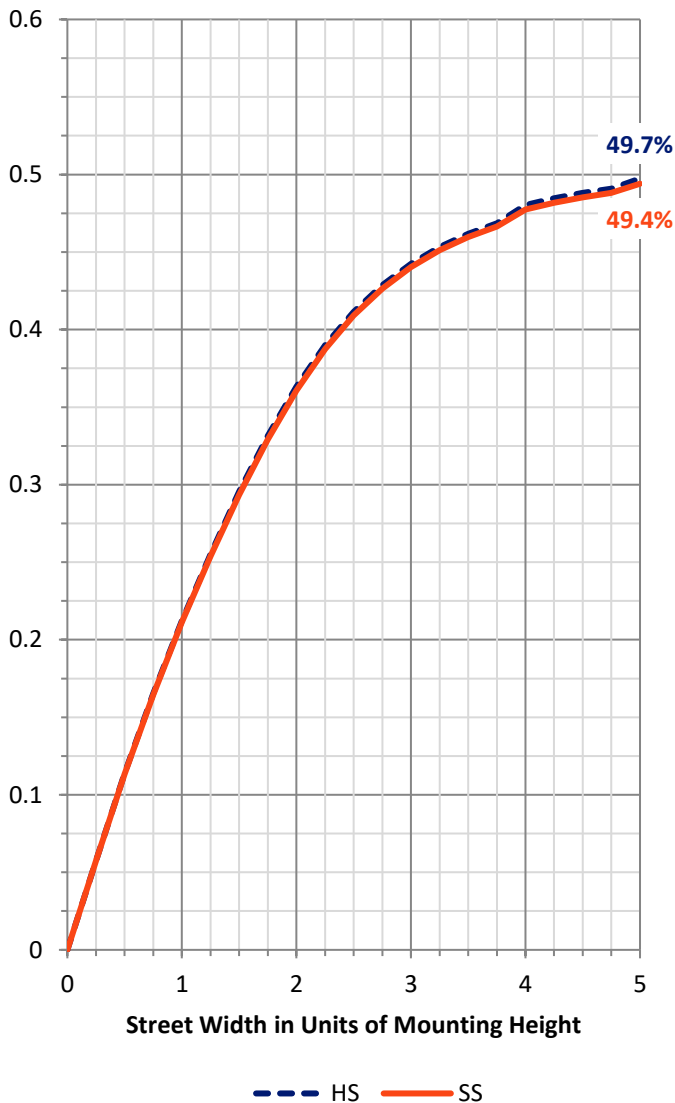
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17772.0	0.0	17772.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17772.0	0.0	17772.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35544.0	0.0	35544.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.5	0.6
10°-20°	643.1	1.8
20°-30°	1273.0	3.6
30°-40°	2202.3	6.2
40°-50°	3664.2	10.3
50°-60°	6391.0	18.0
60°-70°	10580.0	29.8
70°-80°	8866.9	24.9
80°-90°	1726.1	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°	35544.0	100.0
0°-180°	35544.0	100.0



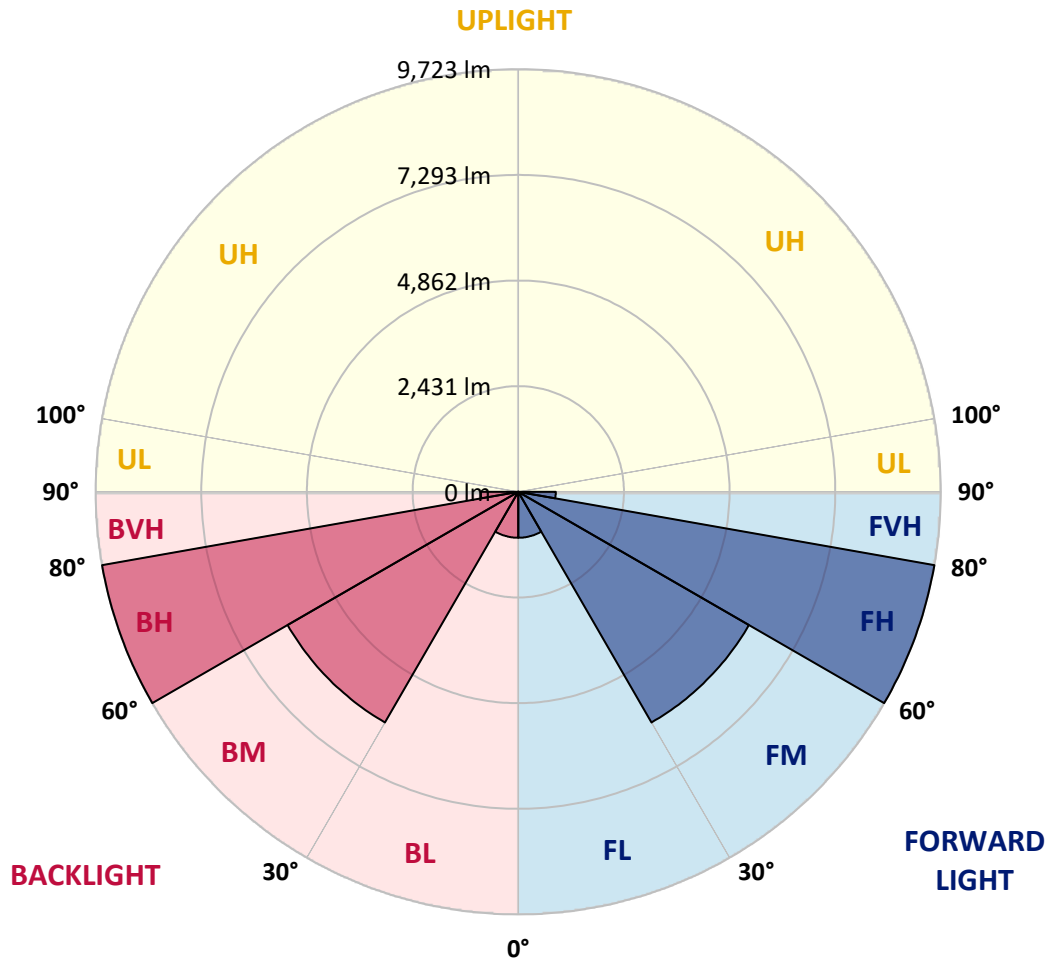
REPORT NUMBER: P510672
 CATALOG NUMBER: CTN-CA6-230-740-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1056.8	3.0			
FM (30°-60°)	6128.7	17.2			
FH (60°-80°)	9723.4	27.4			G4/12000
FVH (80°-90°)	863.0	2.4			G5
BL (0°-30°)	1056.8	3.0	B3/2500		
BM (30°-60°)	6128.7	17.2	B4/8500		
BH (60°-80°)	9723.4	27.4	B5		G4/12000
BVH (80°-90°)	863.0	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°	2031.5	2031.5	2031.5	2031.5	2031.5	2031.5	2031.5	2031.5	2031.5	2031.5	2031.5
2.5°	2044.1	2037.8	2035.7	2033.6	2035.0	2034.3	2037.8	2039.2	2040.6	2046.9	2043.4
5°	2056.8	2051.9	2051.2	2048.3	2047.6	2047.6	2052.6	2053.3	2054.0	2058.2	2054.0
7.5°	2080.0	2075.1	2073.7	2072.3	2071.6	2068.8	2072.3	2070.9	2072.3	2074.4	2069.5
10°	2116.6	2111.0	2109.6	2106.1	2108.2	2104.0	2106.8	2103.3	2096.9	2098.3	2091.3
12.5°	2166.6	2161.7	2163.8	2163.1	2171.5	2169.4	2163.8	2156.7	2146.2	2139.1	2131.4
15°	2240.5	2232.8	2238.4	2244.0	2252.5	2256.0	2251.8	2232.8	2217.3	2206.0	2199.7
17.5°	2330.6	2317.9	2329.2	2340.5	2358.8	2362.3	2346.8	2323.6	2306.7	2301.7	2291.2
20°	2435.5	2433.4	2434.1	2452.4	2480.5	2485.5	2465.1	2437.6	2420.7	2421.4	2409.4
22.5°	2562.2	2550.9	2554.4	2572.8	2612.9	2626.2	2592.5	2562.2	2551.6	2554.4	2553.0
25°	2707.2	2696.6	2691.7	2700.2	2752.2	2775.5	2743.1	2707.9	2703.0	2709.3	2699.5
27.5°	2866.3	2856.4	2850.8	2855.0	2895.8	2939.5	2903.6	2874.0	2873.3	2882.5	2876.8
30°	3047.2	3032.4	3026.1	3031.0	3059.1	3101.4	3072.5	3054.9	3069.7	3076.0	3073.9
32.5°	3230.2	3223.2	3221.0	3219.6	3254.1	3278.1	3264.0	3267.5	3279.5	3308.3	3299.2
35°	3438.5	3418.1	3423.8	3428.0	3473.0	3475.1	3476.6	3482.9	3514.6	3555.4	3531.5
37.5°	3655.3	3650.4	3653.9	3642.0	3675.1	3688.4	3708.1	3729.3	3779.2	3826.4	3816.5
40°	3923.5	3914.4	3917.9	3903.8	3920.0	3930.6	3970.7	4016.4	4080.5	4131.2	4108.0
42.5°	4279.0	4255.8	4255.8	4260.0	4293.8	4282.5	4368.4	4381.1	4460.6	4503.5	4490.2
45°	4697.1	4688.7	4644.3	4569.7	4527.5	4526.8	4595.8	4698.5	4830.2	4919.6	4918.8
47.5°	5228.6	5202.5	5096.2	4916.7	4809.7	4783.7	4856.2	5056.1	5298.2	5437.6	5435.5
50°	5925.4	5892.3	5731.1	5452.4	5244.0	5180.0	5296.1	5555.2	5881.1	6066.9	6082.4
52.5°	6705.3	6708.2	6525.8	6104.2	5795.9	5680.5	5803.6	6173.9	6580.0	6834.9	6865.1
55°	7611.3	7589.4	7417.0	6939.0	6514.6	6266.8	6453.3	6944.0	7410.6	7604.9	7658.4
57.5°	8554.5	8469.3	8337.0	7890.0	7393.8	7077.0	7300.8	7780.9	8227.9	8475.6	8467.2
60°	9390.7	9334.4	9258.4	8902.2	8521.4	8159.6	8332.1	8738.2	9121.1	9271.1	9277.4
62.5°	10304.4	10257.2	10188.9	9994.0	9784.2	9649.8	9493.5	9681.4	9980.6	10144.6	10198.1
65°	11201.1	11184.3	11223.7	11194.1	11282.8	11263.1	10888.6	10770.4	10775.3	10728.8	10704.9
67.5°	11148.4	11142.0	11374.3	11837.5	12721.6	12972.2	12011.3	10941.4	10459.2	10336.8	10319.2
70°	10335.3	10403.6	10833.7	11740.3	13353.7	13642.3	12326.7	10384.6	9768.0	9461.1	9385.1
72.5°	8771.3	8905.0	9564.6	10899.9	12828.6	12894.7	11534.1	9547.0	8639.0	8272.9	8218.7
75°	6768.0	6784.9	7459.9	9157.0	11448.9	11532.0	10288.9	8007.6	7114.3	6658.9	6644.8
77.5°	4122.0	4362.1	5346.8	6865.8	9101.4	9533.6	8605.2	6378.0	5315.8	4912.5	4687.3
80°	2022.3	2132.1	2841.6	4340.9	6505.4	7229.7	6385.8	4411.3	3278.8	2767.0	2710.7
82.5°	920.7	979.1	1344.4	2269.4	3925.6	4823.1	3941.1	2526.3	1750.6	1369.1	1356.4
85°	357.6	355.5	544.1	952.4	1879.4	2670.6	1995.6	1205.1	801.0	595.5	561.7
87.5°	104.2	111.2	159.8	312.5	556.8	750.4	615.2	416.7	246.4	158.4	145.7
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)