

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: P510682

Luminaire Tested: **CTN-CA6-230-750-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510682  
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-CA6-230-750-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (6) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36196 lumens  
Efficiency: N/A  
Efficacy: 158.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

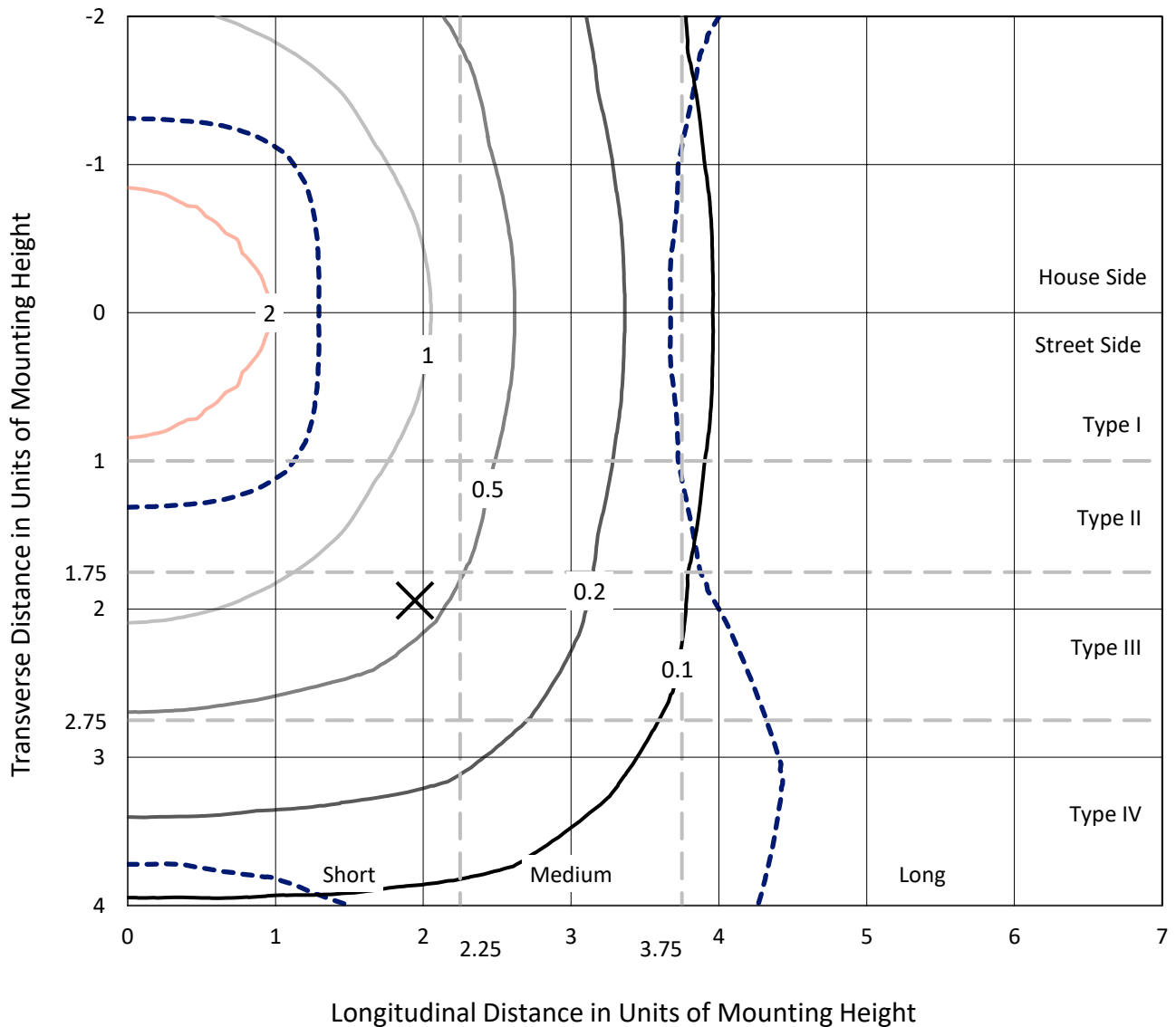
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

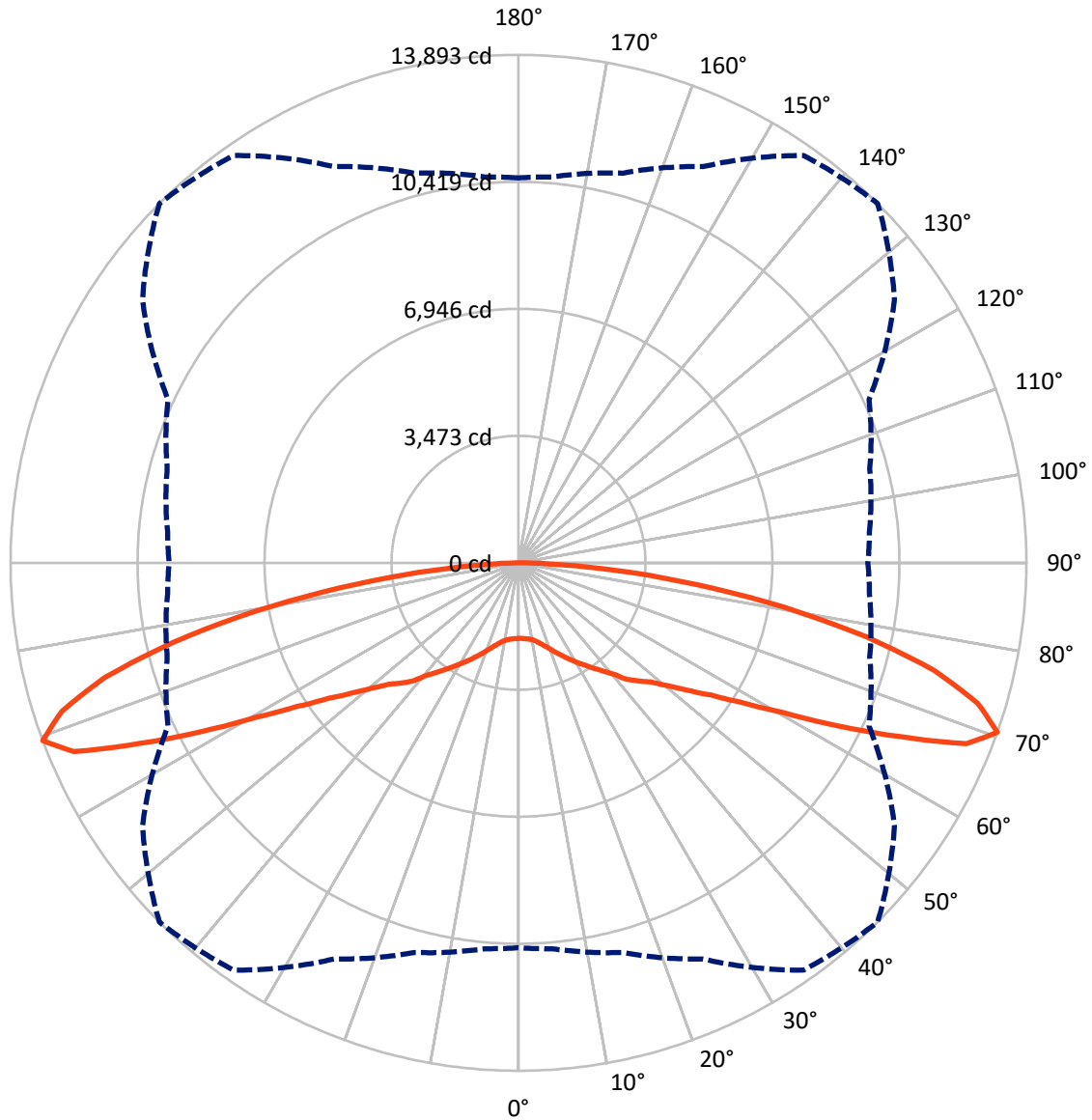
✕ Max cd  
 - - - 1/2 Max cd



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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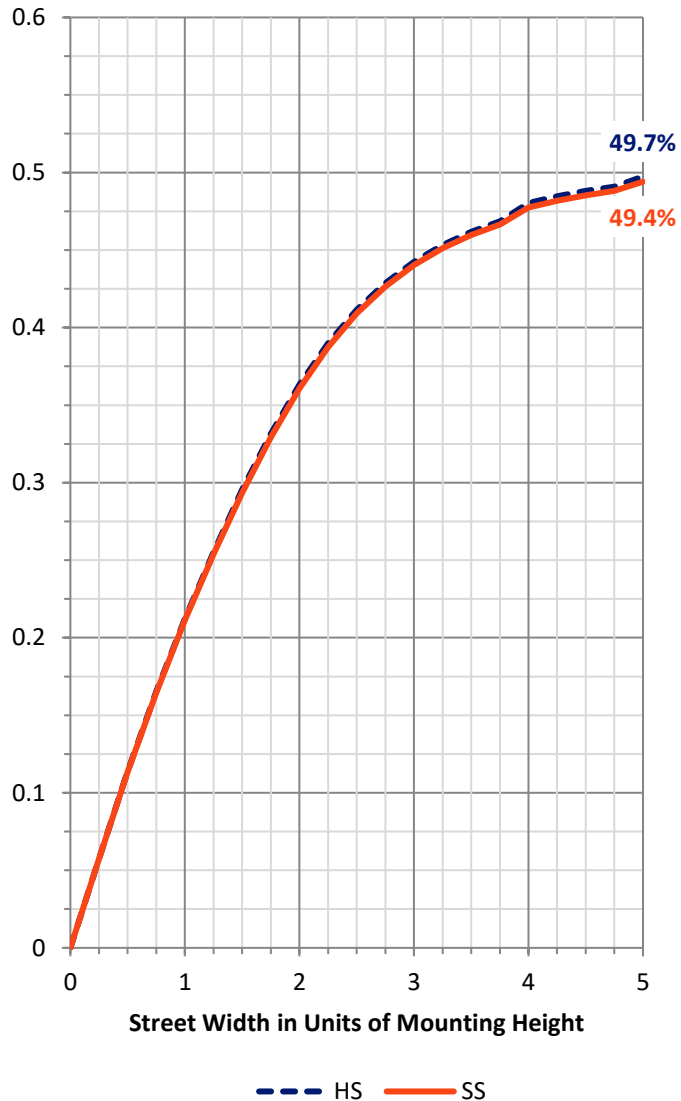
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18098.0	0.0	18098.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18098.0	0.0	18098.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36196.0	0.0	36196.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.1	0.6
10°-20°	654.9	1.8
20°-30°	1296.4	3.6
30°-40°	2242.7	6.2
40°-50°	3731.4	10.3
50°-60°	6508.2	18.0
60°-70°	10774.1	29.8
70°-80°	9029.5	24.9
80°-90°	1757.8	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°	36196.0	100.0
0°-180°	36196.0	100.0

**Coefficient of Utilization**

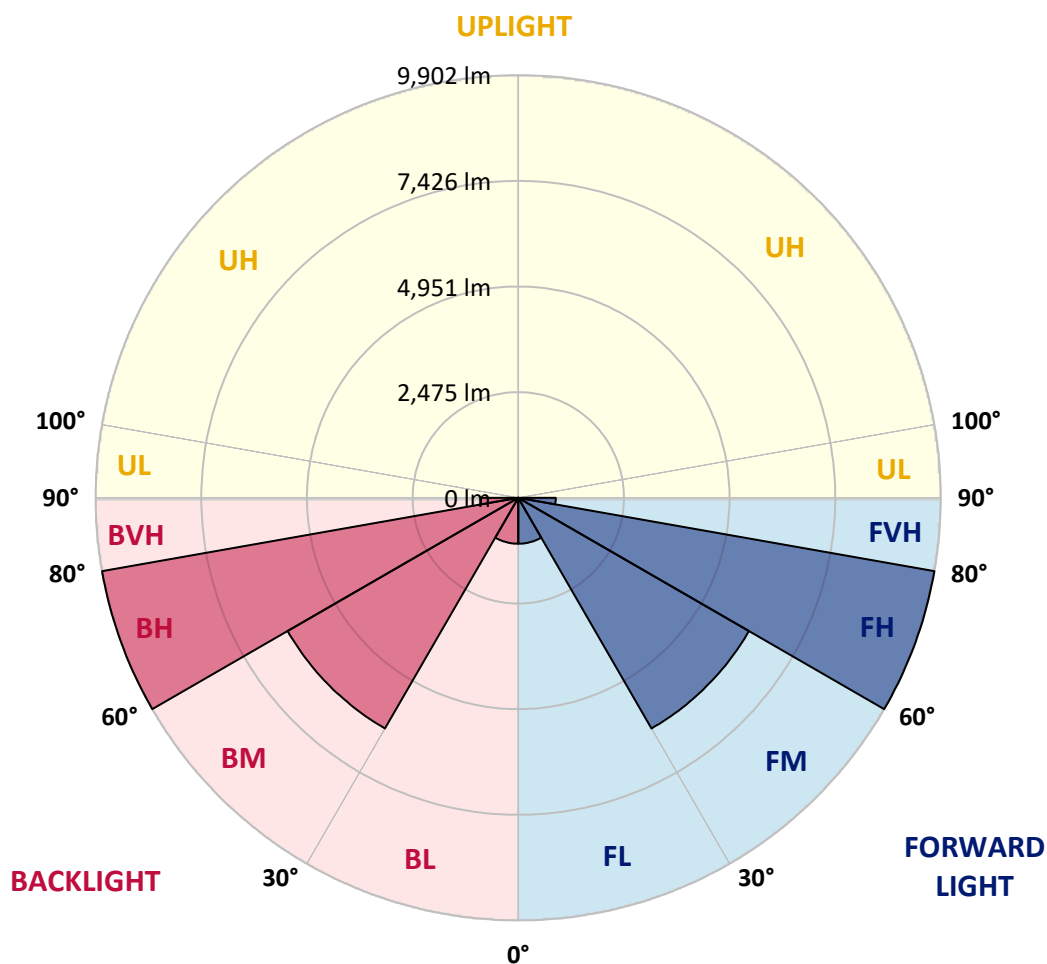


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1076.2	3.0			
FM (30°-60°)	6241.2	17.2			
FH (60°-80°)	9901.8	27.4			G4/12000
FVH (80°-90°)	878.9	2.4			G5
BL (0°-30°)	1076.2	3.0	B3/2500		
BM (30°-60°)	6241.2	17.2	B4/8500		
BH (60°-80°)	9901.8	27.4	B5		G4/12000
BVH (80°-90°)	878.9	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°	2068.7	2068.7	2068.7	2068.7	2068.7	2068.7	2068.7	2068.7	2068.7	2068.7	2068.7
2.5°	2081.6	2075.2	2073.0	2070.9	2072.3	2071.6	2075.2	2076.6	2078.0	2084.5	2080.9
5°	2094.5	2089.5	2088.8	2085.9	2085.2	2085.2	2090.2	2090.9	2091.7	2096.0	2091.7
7.5°	2118.2	2113.2	2111.7	2110.3	2109.6	2106.7	2110.3	2108.9	2110.3	2112.4	2107.4
10°	2155.5	2149.7	2148.3	2144.7	2146.8	2142.5	2145.4	2141.8	2135.4	2136.8	2129.6
12.5°	2206.3	2201.3	2203.5	2202.8	2211.4	2209.2	2203.5	2196.3	2185.6	2178.4	2170.5
15°	2281.6	2273.7	2279.5	2285.2	2293.8	2297.4	2293.1	2273.7	2258.0	2246.5	2240.0
17.5°	2373.4	2360.5	2371.9	2383.4	2402.0	2405.6	2389.8	2366.2	2349.0	2344.0	2333.2
20°	2480.2	2478.0	2478.7	2497.4	2526.0	2531.1	2510.3	2482.3	2465.1	2465.8	2453.6
22.5°	2609.2	2597.7	2601.3	2619.9	2660.8	2674.4	2640.0	2609.2	2598.4	2601.3	2599.9
25°	2756.9	2746.1	2741.1	2749.7	2802.7	2826.4	2793.4	2757.6	2752.6	2759.0	2749.0
27.5°	2918.9	2908.8	2903.1	2907.4	2949.0	2993.4	2956.8	2926.7	2926.0	2935.3	2929.6
30°	3103.1	3088.0	3081.6	3086.6	3115.3	3158.3	3128.9	3111.0	3126.0	3132.5	3130.3
32.5°	3289.4	3282.3	3280.1	3278.7	3313.8	3338.2	3323.9	3327.4	3339.6	3369.0	3359.7
35°	3501.6	3480.8	3486.6	3490.9	3536.7	3538.9	3540.3	3546.8	3579.0	3620.6	3596.2
37.5°	3722.4	3717.4	3721.0	3708.8	3742.5	3756.1	3776.2	3797.7	3848.6	3896.6	3886.5
40°	3995.5	3986.2	3989.8	3975.4	3991.9	4002.7	4043.5	4090.1	4155.4	4207.0	4183.3
42.5°	4357.5	4333.8	4333.8	4338.1	4372.5	4361.1	4448.5	4461.4	4542.4	4586.2	4572.5
45°	4783.3	4774.7	4729.5	4653.5	4610.5	4609.8	4680.1	4784.7	4918.8	5009.8	5009.1
47.5°	5324.5	5297.9	5189.7	5006.9	4898.0	4871.4	4945.3	5148.9	5395.4	5537.4	5535.2
50°	6034.1	6000.4	5836.3	5552.4	5340.2	5275.0	5393.3	5657.1	5989.0	6178.2	6194.0
52.5°	6828.3	6831.2	6645.6	6216.2	5902.2	5784.7	5910.1	6287.1	6700.7	6960.2	6991.1
55°	7750.9	7728.7	7553.0	7066.3	6634.1	6381.8	6571.7	7071.3	7546.6	7744.4	7798.9
57.5°	8711.4	8624.7	8489.9	8034.7	7529.4	7206.8	7434.8	7923.6	8378.8	8631.1	8622.5
60°	9563.0	9505.6	9428.2	9065.5	8677.7	8309.3	8484.9	8898.5	9288.4	9441.1	9447.6
62.5°	10493.4	10445.4	10375.8	10177.3	9963.7	9826.8	9667.6	9859.0	10163.7	10330.7	10385.2
65°	11406.6	11389.4	11429.6	11399.4	11489.8	11469.7	11088.3	10967.9	10972.9	10925.6	10901.3
67.5°	11352.9	11346.4	11582.9	12054.6	12954.9	13210.1	12231.7	11142.1	10651.1	10526.4	10508.4
70°	10524.9	10594.5	11032.4	11955.7	13598.6	13892.5	12552.8	10575.1	9947.2	9634.7	9557.2
72.5°	8932.2	9068.4	9740.0	11099.8	13063.9	13131.3	11745.7	9722.1	8797.4	8424.7	8369.5
75°	6892.1	6909.3	7596.8	9325.0	11658.9	11743.5	10477.6	8154.4	7244.8	6781.0	6766.7
77.5°	4197.6	4442.1	5444.9	6991.8	9268.4	9708.5	8763.0	6495.0	5413.4	5002.6	4773.2
80°	2059.4	2171.2	2893.8	4420.6	6624.8	7362.4	6502.9	4492.3	3338.9	2817.8	2760.4
82.5°	937.6	997.1	1369.1	2311.0	3997.7	4911.6	4013.4	2572.6	1782.7	1394.2	1381.3
85°	364.1	362.0	554.1	969.8	1913.9	2719.6	2032.2	1227.2	815.7	606.4	572.0
87.5°	106.1	113.3	162.7	318.3	567.0	764.1	626.5	424.4	250.9	161.3	148.4
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)