

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: P510412

Luminaire Tested: **CTN-CA10-210-727-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510412  
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-CA10-210-727-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30489 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

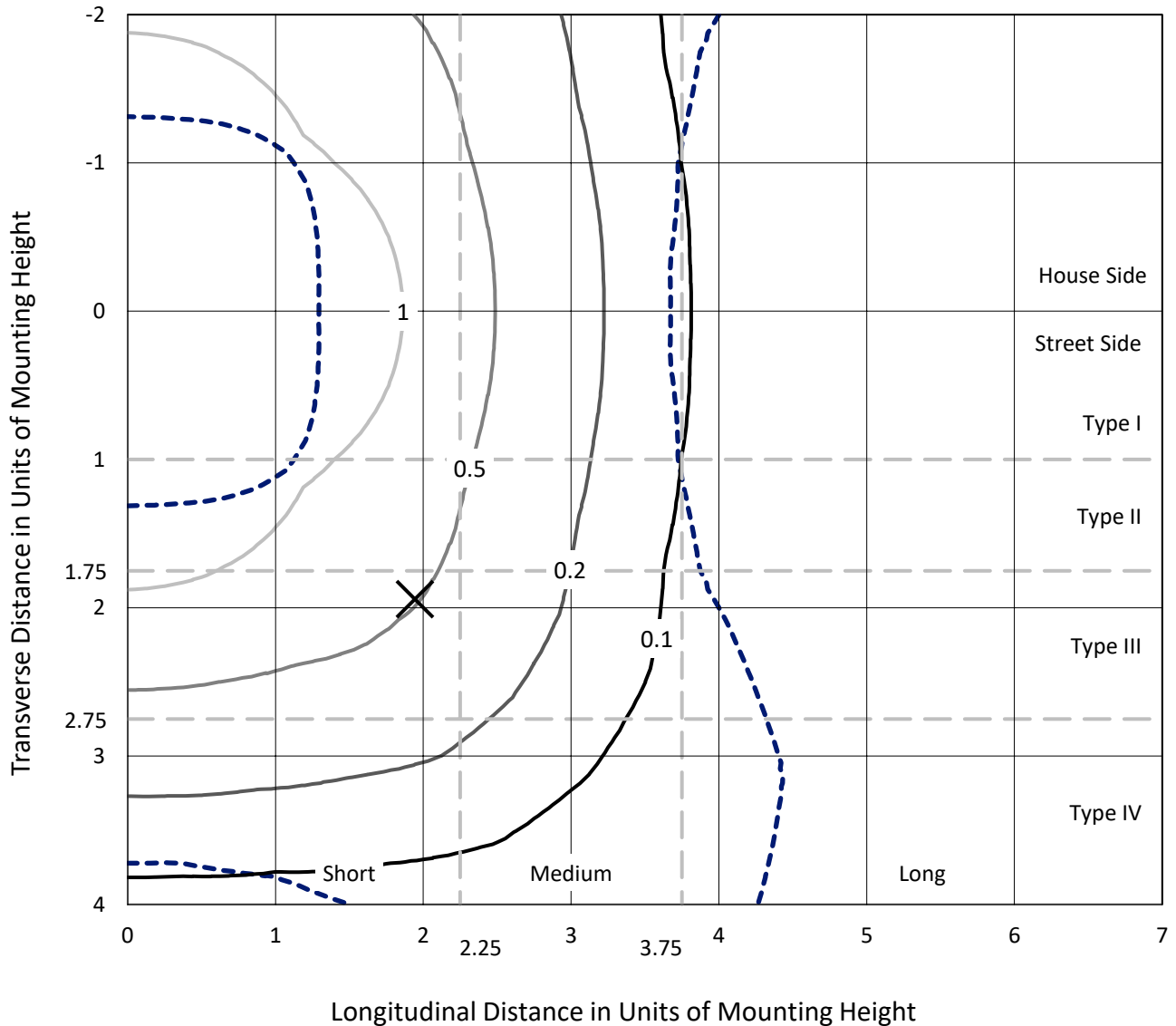
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

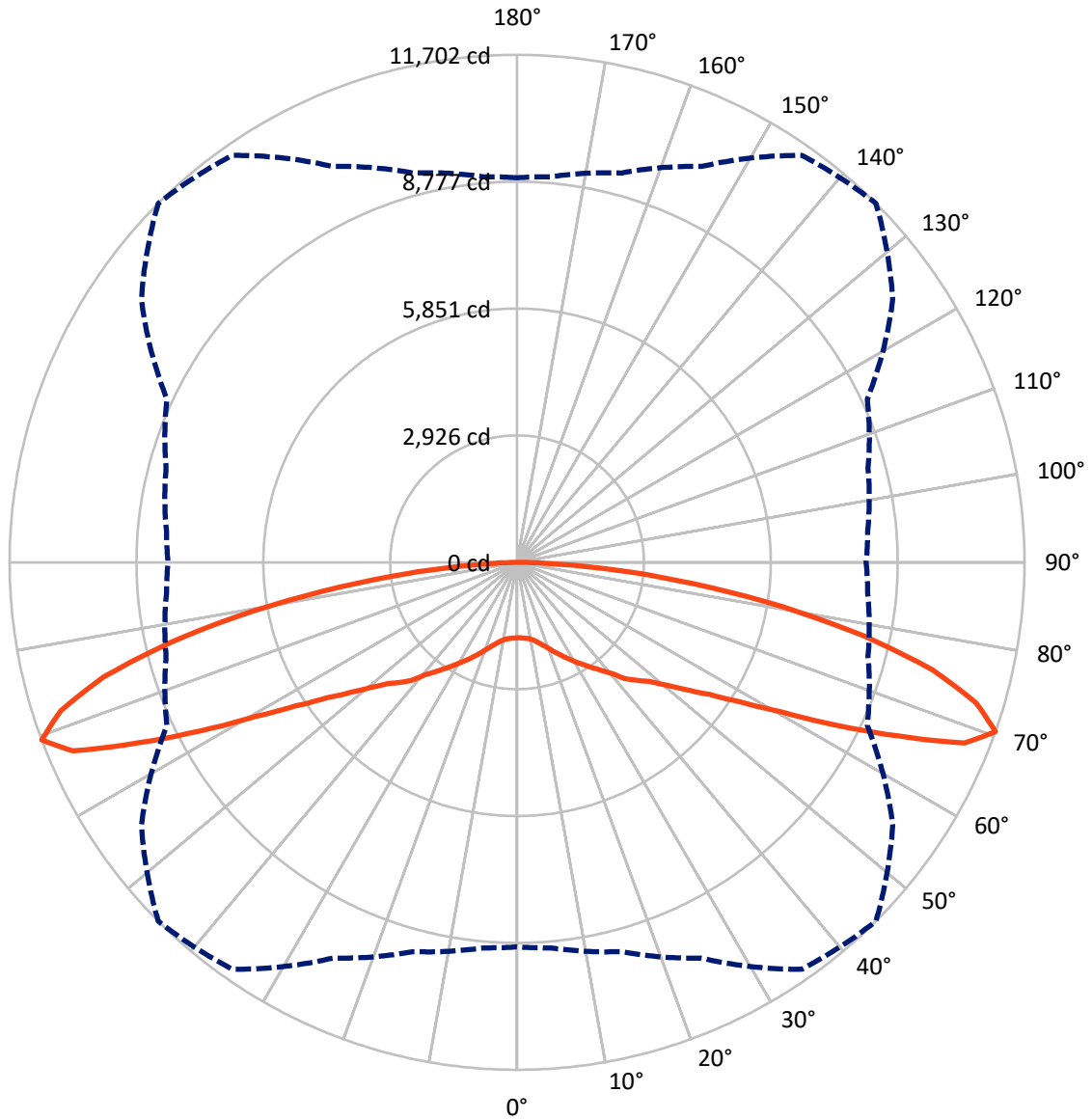
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2 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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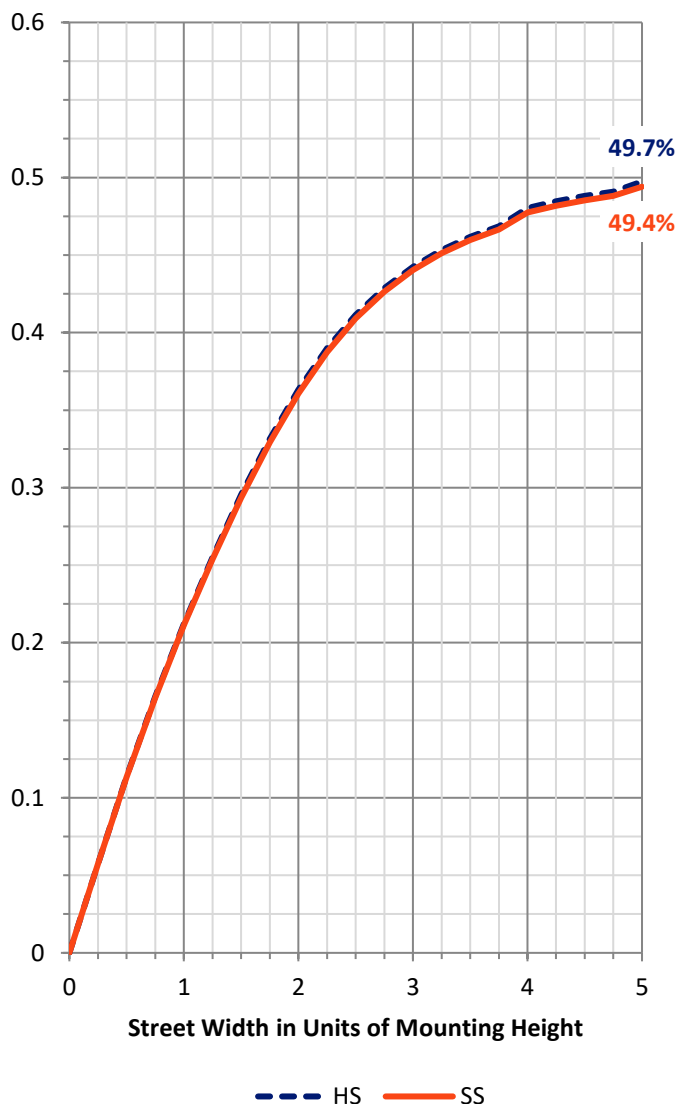
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15244.5	0.0	15244.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15244.5	0.0	15244.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30489.0	0.0	30489.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.4	0.6
10°-20°	551.6	1.8
20°-30°	1092.0	3.6
30°-40°	1889.1	6.2
40°-50°	3143.1	10.3
50°-60°	5482.1	18.0
60°-70°	9075.3	29.8
70°-80°	7605.8	24.9
80°-90°	1480.6	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°	30489.0	100.0
0°-180°	30489.0	100.0

**Coefficient of Utilization**

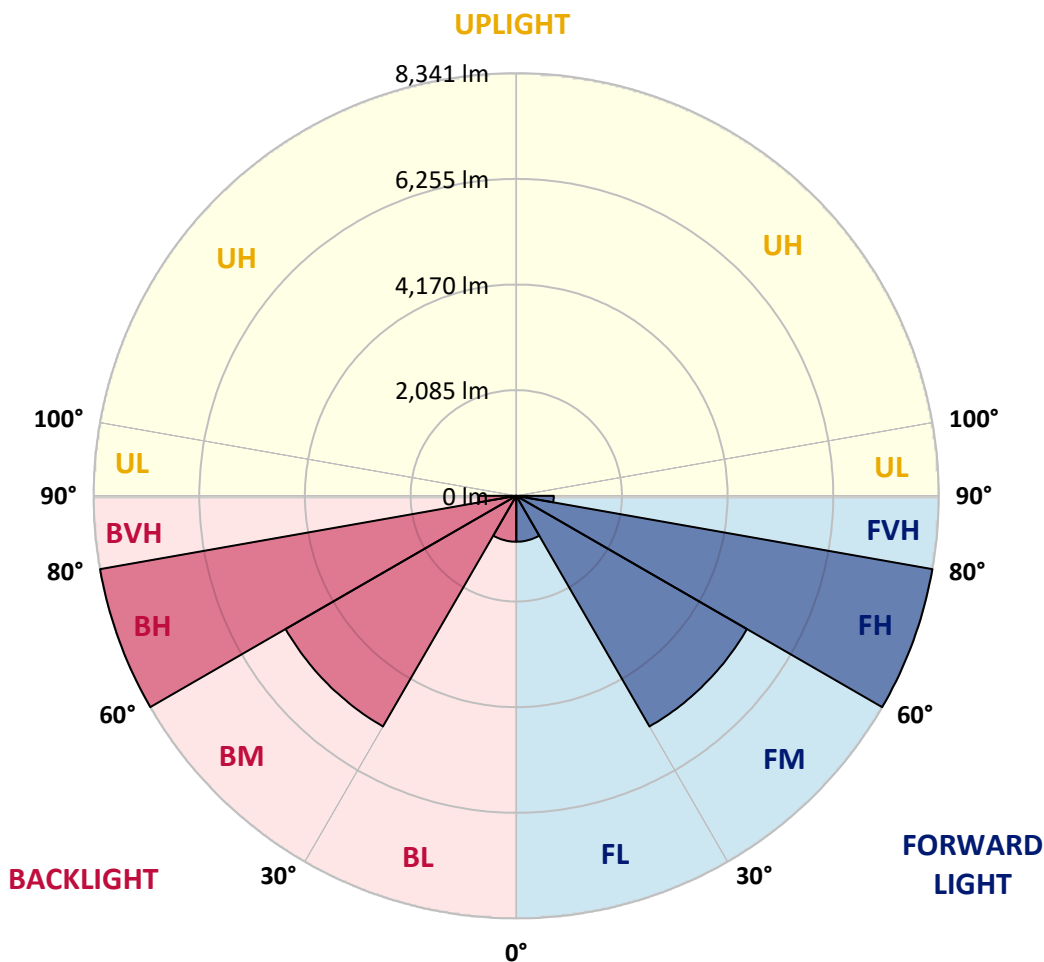


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	906.5	3.0			
FM (30°-60°)	5257.1	17.2			
FH (60°-80°)	8340.6	27.4			G4/12000
FVH (80°-90°)	740.3	2.4			G4/750
BL (0°-30°)	906.5	3.0	B2/1000		
BM (30°-60°)	5257.1	17.2	B4/8500		
BH (60°-80°)	8340.6	27.4	B5		G4/12000
BVH (80°-90°)	740.3	2.4			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1742.5	1742.5	1742.5	1742.5	1742.5	1742.5	1742.5	1742.5	1742.5	1742.5	1742.5
2.5°	1753.4	1748.0	1746.2	1744.4	1745.6	1745.0	1748.0	1749.2	1750.4	1755.8	1752.8
5°	1764.3	1760.1	1759.4	1757.0	1756.4	1756.4	1760.7	1761.3	1761.9	1765.5	1761.9
7.5°	1784.2	1780.0	1778.8	1777.6	1777.0	1774.5	1777.6	1776.4	1777.6	1779.4	1775.1
10°	1815.6	1810.8	1809.6	1806.5	1808.4	1804.7	1807.1	1804.1	1798.7	1799.9	1793.9
12.5°	1858.5	1854.2	1856.1	1855.5	1862.7	1860.9	1856.1	1850.0	1841.0	1834.9	1828.3
15°	1921.9	1915.2	1920.1	1924.9	1932.1	1935.2	1931.5	1915.2	1901.9	1892.3	1886.8
17.5°	1999.2	1988.3	1997.9	2007.6	2023.3	2026.3	2013.0	1993.1	1978.6	1974.4	1965.3
20°	2089.1	2087.3	2087.9	2103.6	2127.8	2132.0	2114.5	2090.9	2076.4	2077.0	2066.8
22.5°	2197.8	2188.1	2191.2	2206.9	2241.3	2252.7	2223.8	2197.8	2188.7	2191.2	2190.0
25°	2322.2	2313.1	2308.9	2316.1	2360.8	2380.8	2353.0	2322.8	2318.6	2324.0	2315.5
27.5°	2458.6	2450.2	2445.4	2449.0	2484.0	2521.4	2490.6	2465.3	2464.7	2472.5	2467.7
30°	2613.8	2601.1	2595.7	2599.9	2624.1	2660.3	2635.6	2620.5	2633.1	2638.6	2636.8
32.5°	2770.8	2764.8	2763.0	2761.7	2791.3	2811.9	2799.8	2802.8	2813.1	2837.8	2830.0
35°	2949.5	2932.0	2936.8	2940.5	2979.1	2980.9	2982.1	2987.6	3014.7	3049.8	3029.2
37.5°	3135.5	3131.3	3134.3	3124.0	3152.4	3163.9	3180.8	3198.9	3241.8	3282.2	3273.8
40°	3365.5	3357.7	3360.7	3348.6	3362.5	3371.6	3406.0	3445.2	3500.2	3543.7	3523.7
42.5°	3670.5	3650.5	3650.5	3654.1	3683.1	3673.5	3747.1	3758.0	3826.2	3863.1	3851.6
45°	4029.1	4021.9	3983.8	3919.8	3883.6	3883.0	3942.2	4030.3	4143.2	4219.9	4219.3
47.5°	4485.0	4462.6	4371.5	4217.5	4125.7	4103.4	4165.6	4337.0	4544.7	4664.3	4662.5
50°	5082.7	5054.3	4916.1	4677.0	4498.2	4443.3	4542.9	4765.1	5044.7	5204.1	5217.4
52.5°	5751.7	5754.1	5597.8	5236.1	4971.6	4872.6	4978.3	5295.9	5644.2	5862.8	5888.8
55°	6528.8	6510.1	6362.2	5952.2	5588.1	5375.6	5535.6	5956.4	6356.7	6523.4	6569.3
57.5°	7337.9	7264.8	7151.3	6767.9	6342.2	6070.5	6262.5	6674.3	7057.7	7270.3	7263.0
60°	8055.2	8006.9	7941.7	7636.2	7309.5	6999.2	7147.1	7495.5	7823.9	7952.5	7958.0
62.5°	8838.9	8798.5	8739.9	8572.6	8392.7	8277.4	8143.3	8304.6	8561.2	8701.8	8747.7
65°	9608.1	9593.6	9627.5	9602.1	9678.2	9661.3	9340.1	9238.6	9242.8	9203.0	9182.5
67.5°	9562.9	9557.4	9756.7	10154.0	10912.3	11127.3	10303.1	9385.3	8971.7	8866.7	8851.6
70°	8865.5	8924.0	9293.0	10070.6	11454.5	11702.1	10573.6	8907.7	8378.8	8115.6	8050.4
72.5°	7523.9	7638.6	8204.3	9349.7	11004.1	11060.9	9893.7	8189.2	7410.3	7096.4	7049.9
75°	5805.5	5819.9	6399.0	7854.7	9820.7	9891.9	8825.6	6868.7	6102.5	5711.9	5699.8
77.5°	3535.8	3741.7	4586.4	5889.4	7807.0	8177.8	7381.4	5471.0	4559.8	4213.9	4020.6
80°	1734.7	1828.9	2437.5	3723.6	5580.2	6201.5	5477.6	3784.0	2812.5	2373.5	2325.2
82.5°	789.8	839.9	1153.2	1946.6	3367.3	4137.2	3380.6	2167.0	1501.6	1174.4	1163.5
85°	306.7	304.9	466.7	816.9	1612.1	2290.8	1711.7	1033.7	687.1	510.8	481.8
87.5°	89.4	95.4	137.1	268.1	477.6	643.6	527.7	357.4	211.3	135.9	125.0
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)