

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: P510652

Luminaire Tested: **CTN-CA6-230-727-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510652  
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-CA6-230-727-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (6) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30099 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

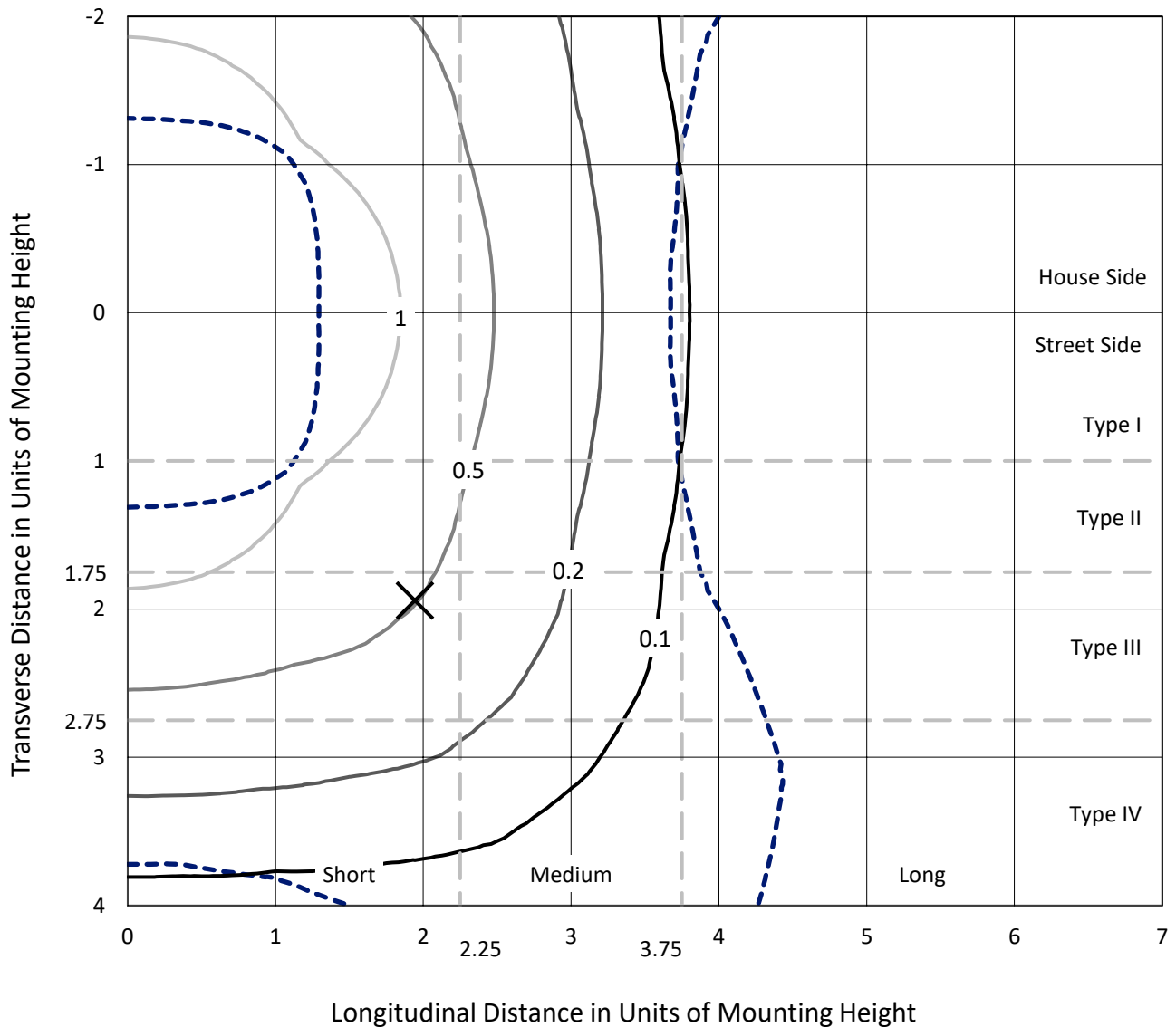
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

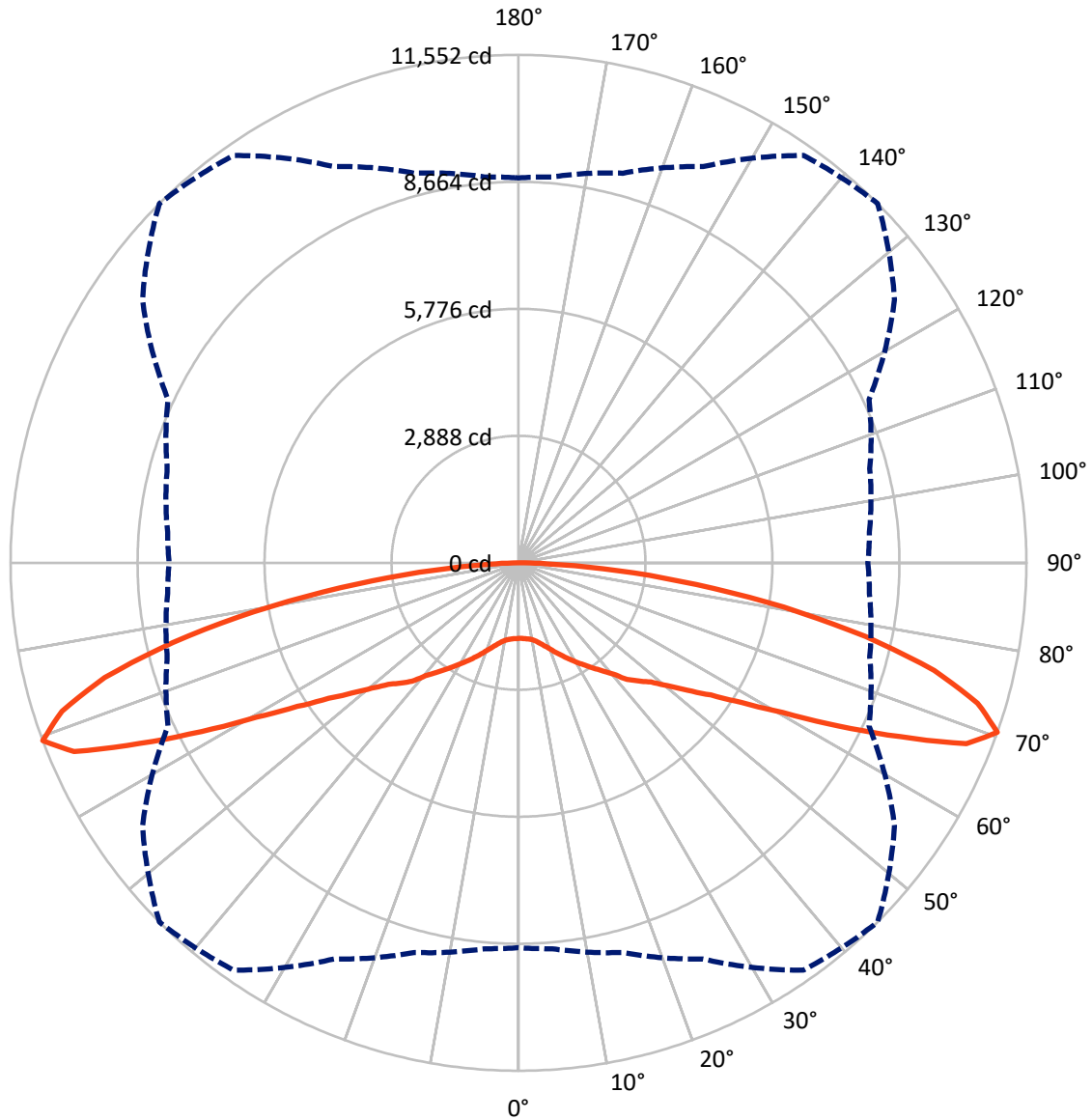
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 1.9 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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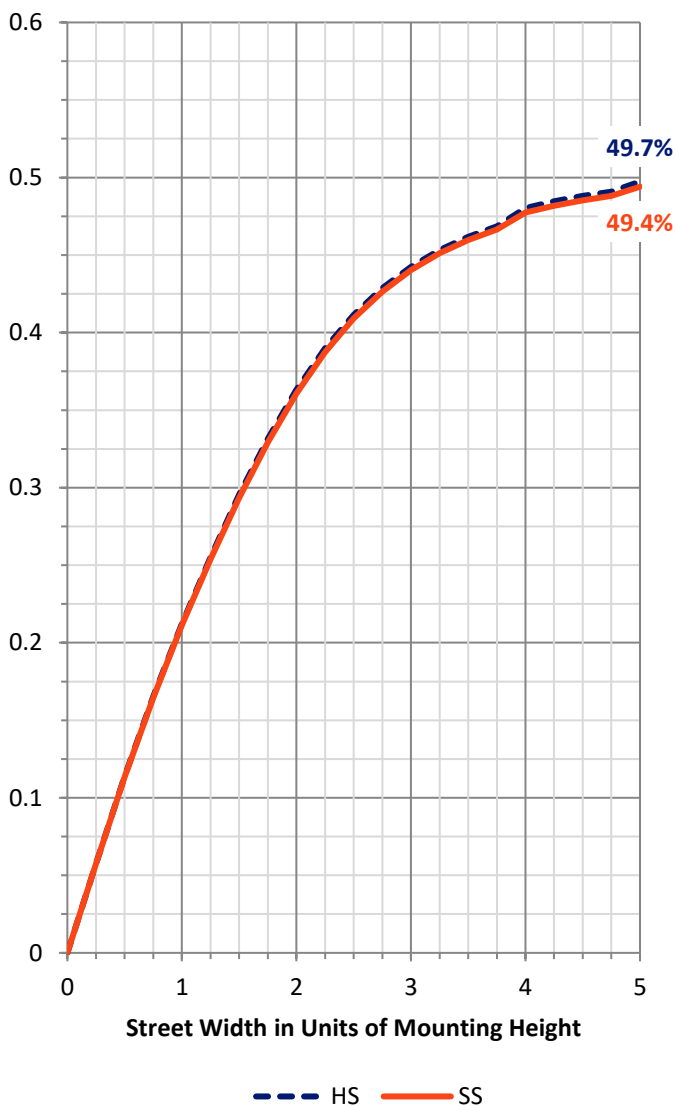
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15049.5	0.0	15049.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15049.5	0.0	15049.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30099.0	0.0	30099.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.2	0.6
10°-20°	544.6	1.8
20°-30°	1078.0	3.6
30°-40°	1864.9	6.2
40°-50°	3102.9	10.3
50°-60°	5412.0	18.0
60°-70°	8959.2	29.8
70°-80°	7508.6	24.9
80°-90°	1461.7	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°	30099.0	100.0
0°-180°	30099.0	100.0

**Coefficient of Utilization**



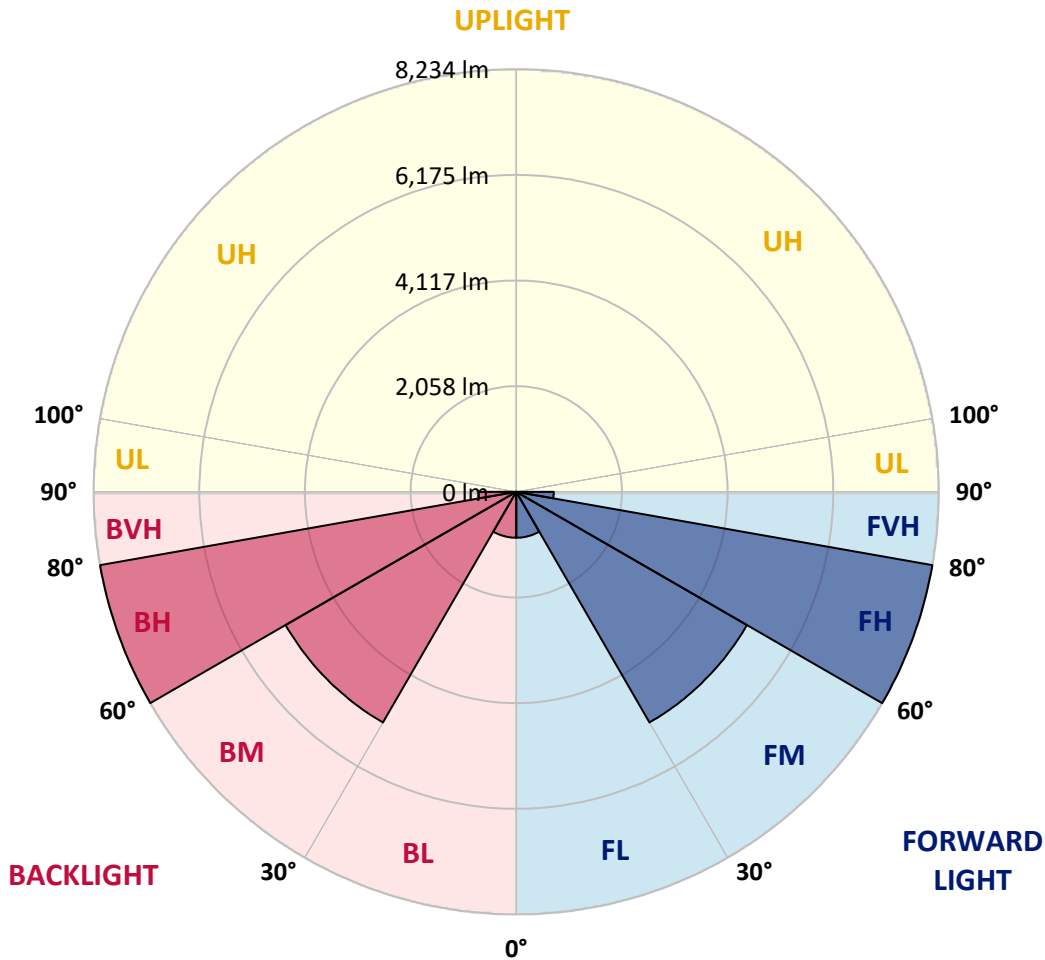
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.9	3.0			
FM (30°-60°)	5189.9	17.2			
FH (60°-80°)	8233.9	27.4			G4/12000
FVH (80°-90°)	730.8	2.4			G4/750
BL (0°-30°)	894.9	3.0	B2/1000		
BM (30°-60°)	5189.9	17.2	B4/8500		
BH (60°-80°)	8233.9	27.4	B5		G4/12000
BVH (80°-90°)	730.8	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°	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3
2.5°	1731.0	1725.6	1723.8	1722.0	1723.2	1722.6	1725.6	1726.8	1728.0	1733.4	1730.4
5°	1741.7	1737.5	1736.9	1734.6	1734.0	1734.0	1738.1	1738.7	1739.3	1742.9	1739.3
7.5°	1761.4	1757.2	1756.0	1754.8	1754.2	1751.8	1754.8	1753.6	1754.8	1756.6	1752.4
10°	1792.4	1787.6	1786.4	1783.4	1785.2	1781.6	1784.0	1781.1	1775.7	1776.9	1770.9
12.5°	1834.7	1830.5	1832.3	1831.7	1838.9	1837.1	1832.3	1826.4	1817.4	1811.5	1804.9
15°	1897.3	1890.7	1895.5	1900.3	1907.4	1910.4	1906.8	1890.7	1877.6	1868.1	1862.7
17.5°	1973.6	1962.9	1972.4	1981.9	1997.4	2000.4	1987.3	1967.6	1953.3	1949.1	1940.2
20°	2062.4	2060.6	2061.2	2076.7	2100.5	2104.7	2087.4	2064.2	2049.9	2050.5	2040.3
22.5°	2169.7	2160.2	2163.1	2178.6	2212.6	2223.9	2195.3	2169.7	2160.7	2163.1	2161.9
25°	2292.5	2283.5	2279.4	2286.5	2330.6	2350.3	2322.9	2293.1	2288.9	2294.3	2285.9
27.5°	2427.2	2418.8	2414.1	2417.7	2452.2	2489.2	2458.8	2433.7	2433.2	2440.9	2436.1
30°	2580.4	2567.9	2562.5	2566.7	2590.5	2626.3	2601.8	2586.9	2599.5	2604.8	2603.0
32.5°	2735.4	2729.4	2727.6	2726.4	2755.6	2775.9	2764.0	2766.9	2777.1	2801.5	2793.8
35°	2911.8	2894.5	2899.3	2902.9	2941.0	2942.8	2944.0	2949.3	2976.2	3010.7	2990.5
37.5°	3095.4	3091.2	3094.2	3084.1	3112.1	3123.4	3140.1	3158.0	3200.3	3240.2	3231.9
40°	3322.5	3314.7	3317.7	3305.8	3319.5	3328.4	3362.4	3401.2	3455.4	3498.3	3478.7
42.5°	3623.5	3603.8	3603.8	3607.4	3636.0	3626.5	3699.2	3709.9	3777.3	3813.6	3802.3
45°	3977.6	3970.4	3932.9	3869.7	3833.9	3833.3	3891.7	3978.8	4090.2	4165.9	4165.3
47.5°	4427.6	4405.5	4315.5	4163.5	4072.9	4050.9	4112.3	4281.6	4486.6	4604.6	4602.8
50°	5017.7	4989.7	4853.2	4617.1	4440.7	4386.5	4484.8	4704.2	4980.2	5137.5	5150.6
52.5°	5678.1	5680.5	5526.2	5169.1	4908.0	4810.3	4914.6	5228.1	5572.0	5787.8	5813.5
55°	6445.3	6426.8	6280.8	5876.0	5516.6	5306.8	5464.8	5880.2	6275.4	6439.9	6485.2
57.5°	7244.0	7171.9	7059.8	6681.3	6261.1	5992.9	6182.4	6588.9	6967.4	7177.3	7170.1
60°	7952.1	7904.5	7840.1	7538.5	7216.0	6909.6	7055.7	7399.6	7723.9	7850.8	7856.2
62.5°	8725.8	8685.9	8628.1	8463.0	8285.4	8171.5	8039.2	8198.3	8451.7	8590.5	8635.8
65°	9485.2	9470.9	9504.3	9479.3	9554.4	9537.7	9220.6	9120.4	9124.6	9085.3	9065.0
67.5°	9440.5	9435.2	9631.9	10024.1	10772.7	10984.9	10171.3	9265.3	8857.0	8753.3	8738.4
70°	8752.1	8809.9	9174.1	9941.8	11308.0	11552.4	10438.4	8793.8	8271.6	8011.8	7947.4
72.5°	7427.6	7540.9	8099.4	9230.1	10863.3	10919.4	9767.2	8084.5	7315.5	7005.6	6959.7
75°	5731.2	5745.5	6317.1	7754.3	9695.1	9765.4	8712.7	6780.9	6024.5	5638.8	5626.9
77.5°	3490.6	3693.8	4527.7	5814.1	7707.2	8073.2	7286.9	5401.0	4501.5	4160.0	3969.2
80°	1712.5	1805.5	2406.3	3676.0	5508.9	6122.2	5407.5	3735.6	2776.5	2343.1	2295.5
82.5°	779.7	829.1	1138.5	1921.7	3324.3	4084.3	3337.4	2139.3	1482.4	1159.4	1148.6
85°	302.8	301.0	460.8	806.5	1591.5	2261.5	1689.9	1020.5	678.3	504.3	475.7
87.5°	88.2	94.2	135.3	264.7	471.5	635.4	521.0	352.9	208.6	134.1	123.4
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)