

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: P527729

Luminaire Tested: **GALN-SA2D-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-735-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9955 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

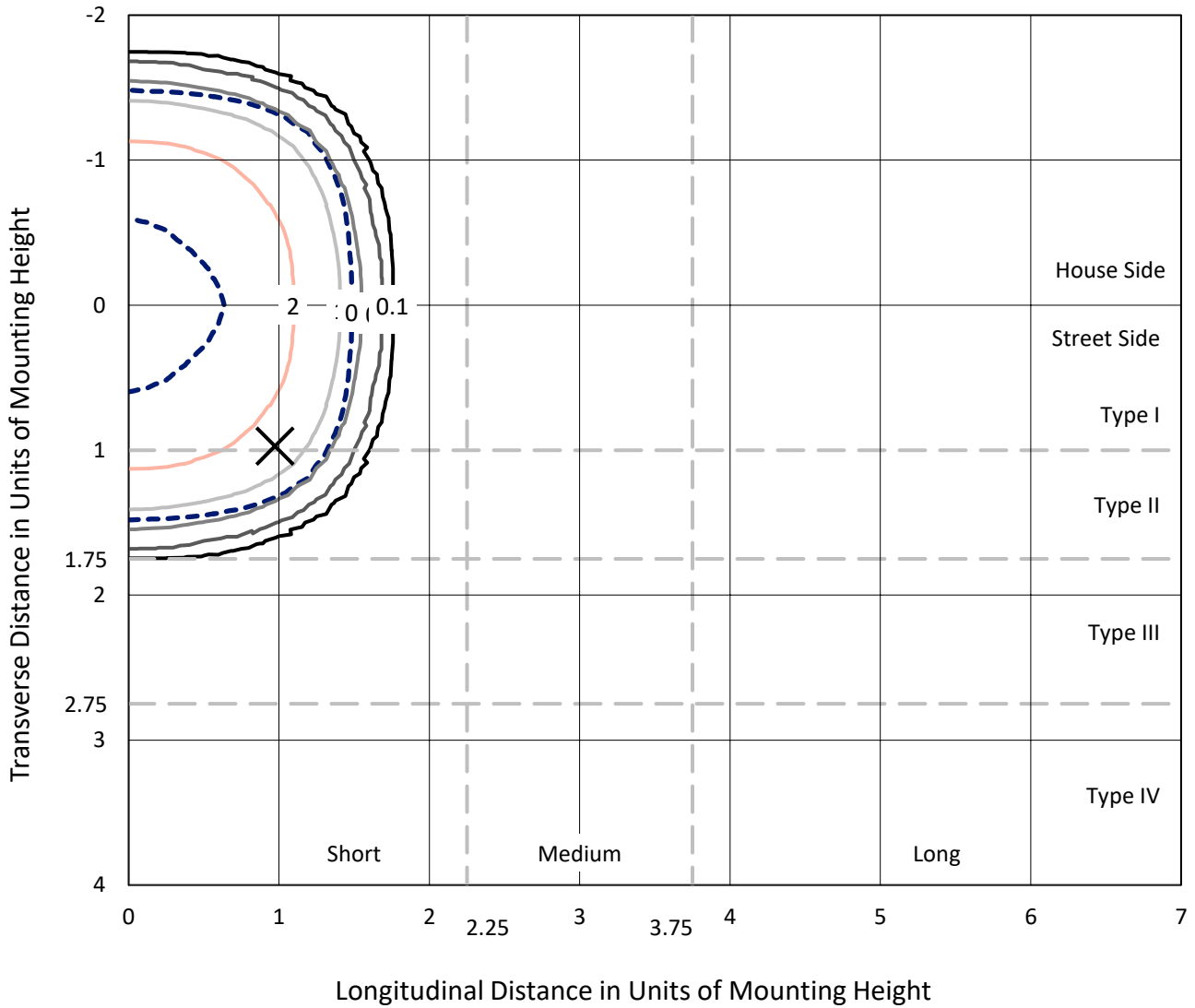
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

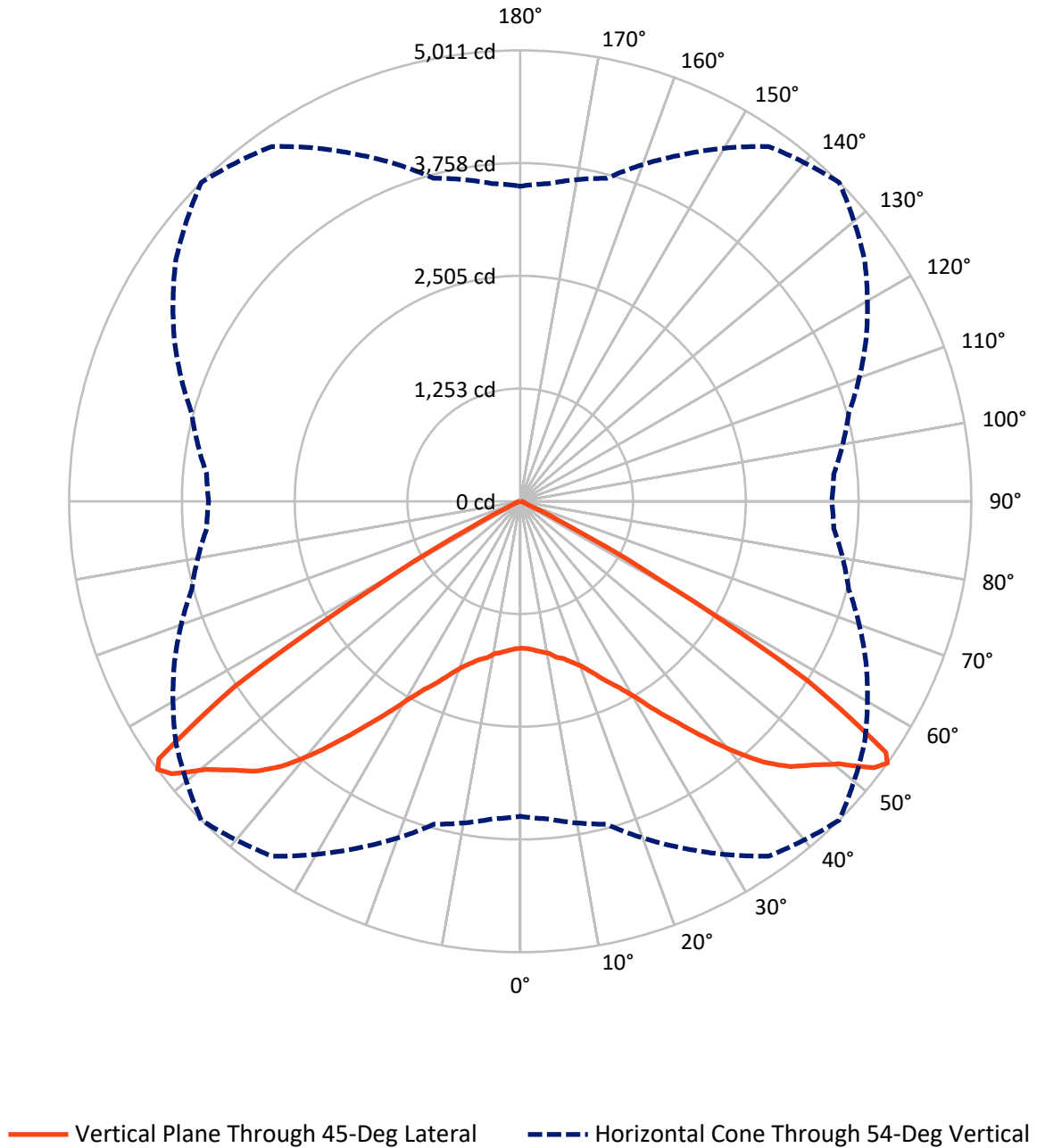
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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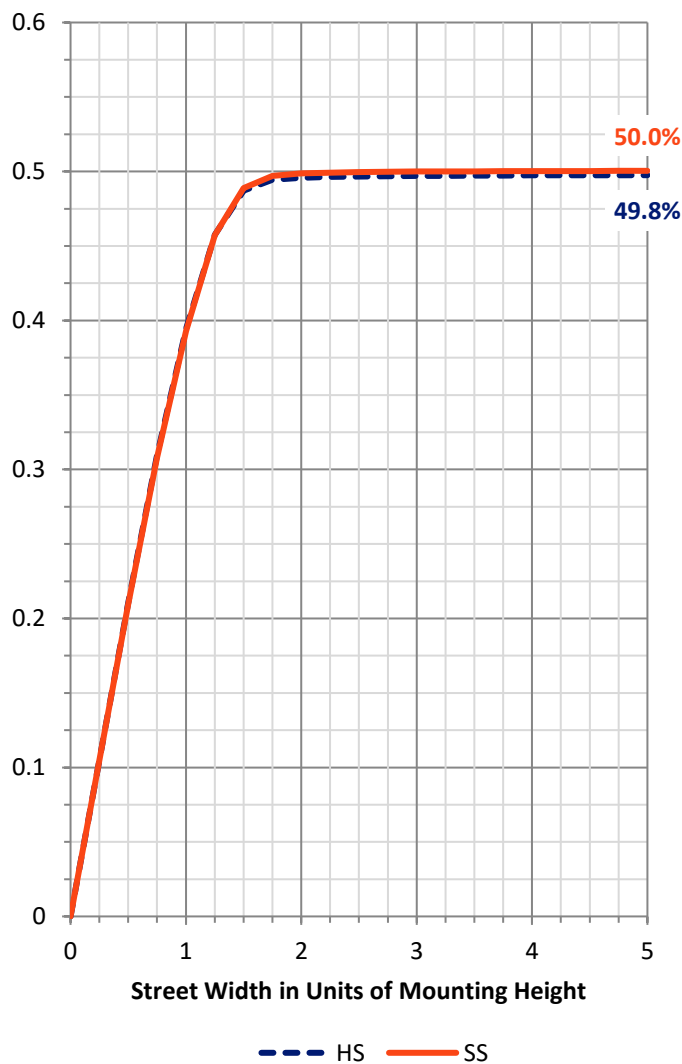
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4977.5	0.0	4977.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4977.5	0.0	4977.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9955.0	0.0	9955.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.8	1.6
10°-20°	517.4	5.2
20°-30°	1014.0	10.2
30°-40°	1823.4	18.3
40°-50°	3121.4	31.4
50°-60°	3020.2	30.3
60°-70°	258.5	2.6
70°-80°	30.6	0.3
80°-90°	9.6	0.1
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°	9955.0	100.0
0°-180°	9955.0	100.0

**Coefficient of Utilization**



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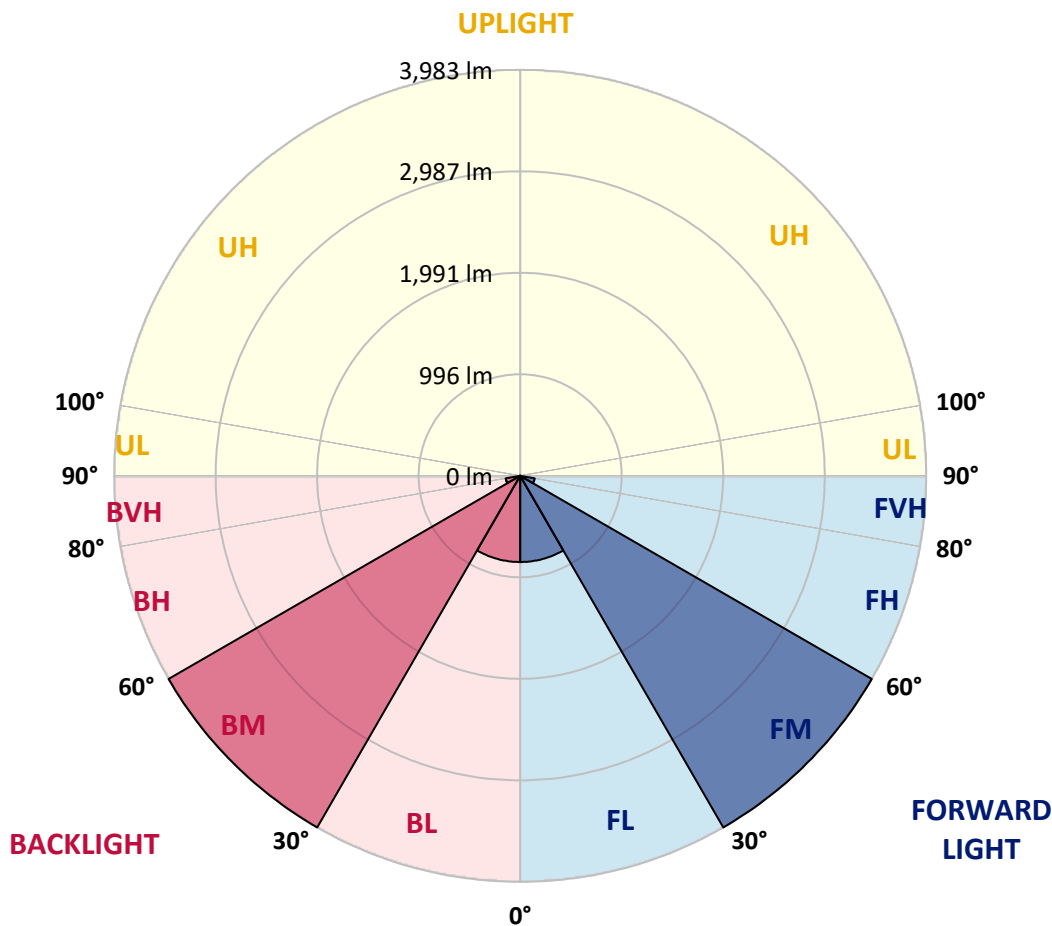
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.6	8.5			
FM (30°-60°)	3982.5	40.0			
FH (60°-80°)	144.6	1.5			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	845.6	8.5	B2/1000		
BM (30°-60°)	3982.5	40.0	B3/5000		
BH (60°-80°)	144.6	1.5	B1/500		G0/660
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3
2.5°	1640.2	1649.7	1643.3	1648.1	1648.1	1640.2	1644.9	1626.0	1638.6	1629.2	1630.7
5°	1665.4	1663.9	1663.9	1665.4	1659.1	1662.3	1656.0	1649.7	1644.9	1638.6	1657.5
7.5°	1697.0	1697.0	1685.9	1689.1	1685.9	1690.7	1678.0	1665.4	1660.7	1656.0	1652.8
10°	1726.9	1723.8	1719.1	1733.2	1722.2	1715.9	1709.6	1701.7	1684.4	1678.0	1671.7
12.5°	1771.1	1769.5	1763.2	1777.4	1771.1	1777.4	1753.7	1733.2	1730.1	1709.6	1720.6
15°	1823.1	1837.3	1826.3	1826.3	1823.1	1815.3	1805.8	1796.3	1767.9	1760.1	1761.6
17.5°	1891.0	1886.2	1887.8	1887.8	1903.6	1883.1	1864.1	1840.5	1826.3	1821.6	1805.8
20°	1955.6	1961.9	1960.3	1971.4	1980.9	1958.8	1938.3	1935.1	1895.7	1902.0	1879.9
22.5°	2069.2	2064.4	2072.3	2080.2	2073.9	2070.7	2051.8	2028.2	1993.5	1977.7	1974.5
25°	2189.0	2181.1	2167.0	2185.9	2195.3	2209.5	2173.3	2160.6	2107.0	2083.4	2084.9
27.5°	2291.5	2302.6	2318.4	2326.2	2349.9	2345.2	2319.9	2278.9	2237.9	2211.1	2193.8
30°	2431.9	2438.2	2465.0	2476.1	2517.1	2528.1	2488.7	2441.4	2368.8	2334.1	2313.6
32.5°	2561.2	2605.4	2603.8	2659.0	2725.2	2771.0	2700.0	2627.5	2554.9	2513.9	2477.6
35°	2771.0	2763.1	2808.8	2867.2	2974.4	3026.5	2949.2	2865.6	2755.2	2689.0	2660.6
37.5°	2966.5	2969.7	3031.2	3124.3	3247.3	3327.7	3259.9	3122.7	3009.1	2924.0	2884.5
40°	3250.4	3256.7	3319.8	3425.5	3564.3	3651.0	3572.2	3433.4	3282.0	3215.7	3215.7
42.5°	3583.2	3610.0	3651.0	3742.5	3867.1	3963.3	3892.3	3783.5	3630.5	3545.3	3558.0
45°	3925.4	3938.0	3964.9	4100.5	4158.8	4206.2	4139.9	4089.4	3986.9	3882.8	3865.5
47.5°	4245.6	4250.3	4329.2	4371.8	4417.5	4378.1	4420.6	4354.4	4239.3	4138.3	4117.8
50°	4387.5	4379.6	4491.6	4620.9	4655.6	4586.2	4550.0	4505.8	4330.7	4209.3	4155.7
52.5°	3974.3	4020.1	4228.2	4587.8	4859.1	4917.4	4706.1	4502.7	4176.2	3939.6	3903.3
54°	3501.2	3543.8	3715.7	4248.7	4813.3	5010.5	4669.8	4237.7	3777.2	3496.5	3460.2
55°	3032.8	2985.5	3297.7	3841.8	4598.9	4928.5	4526.3	3895.5	3368.7	3111.6	3061.2
57.5°	1641.8	1649.7	1913.0	2427.2	3231.5	3778.8	3337.2	2635.4	1990.3	1701.7	1676.5
60°	520.4	533.1	648.2	981.0	1544.0	1843.6	1580.3	1058.2	731.8	586.7	563.0
62.5°	162.4	168.8	184.5	274.4	422.7	604.0	473.1	283.9	211.3	194.0	197.1
65°	99.4	99.4	100.9	107.2	126.2	146.7	141.9	124.6	119.9	116.7	115.1
67.5°	64.7	63.1	66.2	71.0	74.1	75.7	80.4	85.2	83.6	80.4	80.4
70°	39.4	37.9	41.0	47.3	48.9	52.0	56.8	63.1	61.5	58.4	59.9
72.5°	22.1	22.1	23.7	28.4	33.1	36.3	41.0	45.7	47.3	45.7	45.7
75°	7.9	9.5	12.6	17.3	20.5	25.2	30.0	34.7	39.4	36.3	34.7
77.5°	3.2	3.2	6.3	11.0	15.8	20.5	28.4	33.1	36.3	33.1	30.0
80°	1.6	1.6	4.7	9.5	14.2	18.9	23.7	28.4	30.0	26.8	23.7
82.5°	1.6	1.6	4.7	9.5	14.2	17.3	25.2	28.4	31.5	28.4	23.7
85°	0.0	1.6	4.7	9.5	12.6	14.2	14.2	9.5	7.9	4.7	4.7
87.5°	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)