

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: P451366

Luminaire Tested: **GALN-SA2B-727-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9553 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

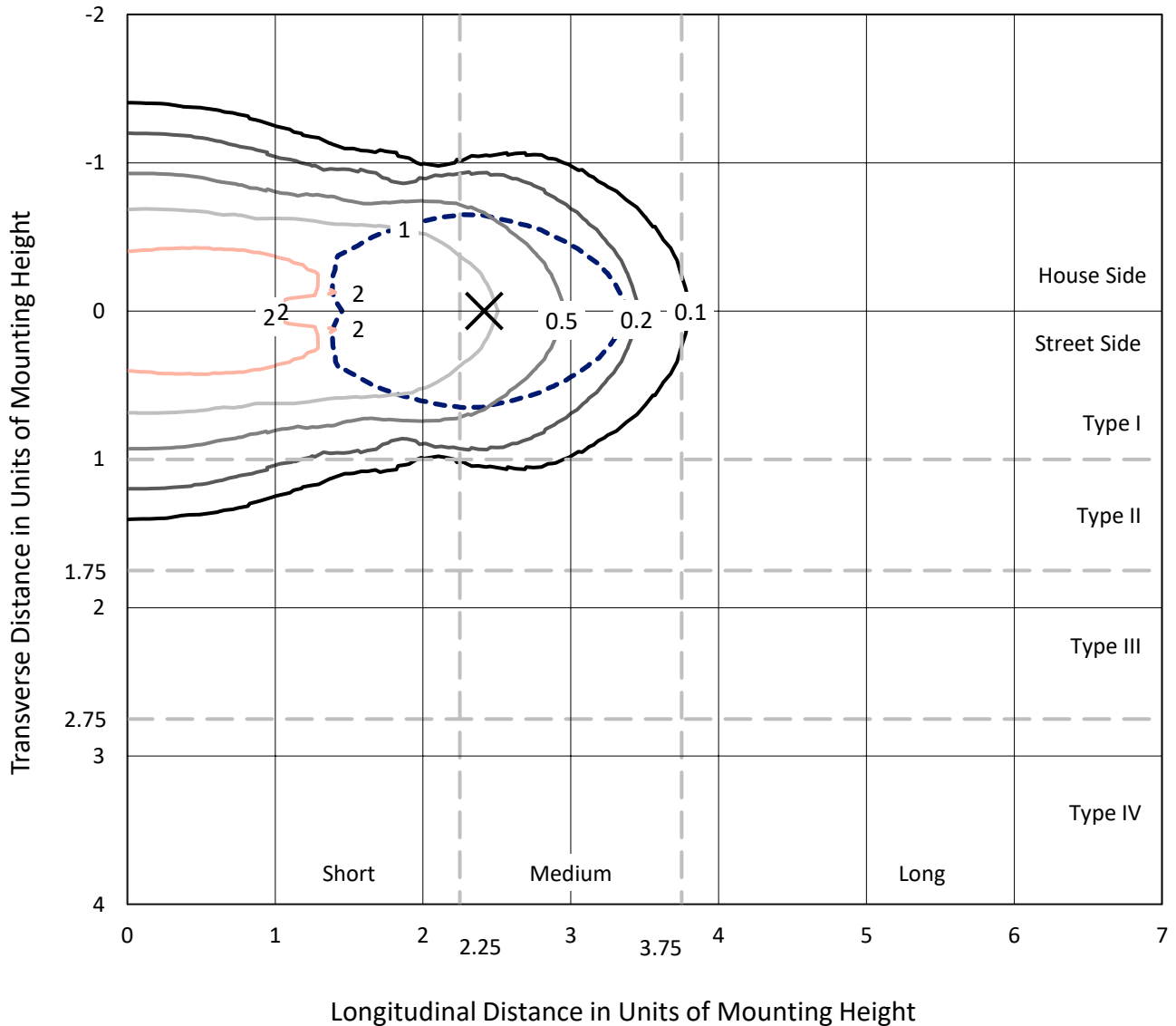
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

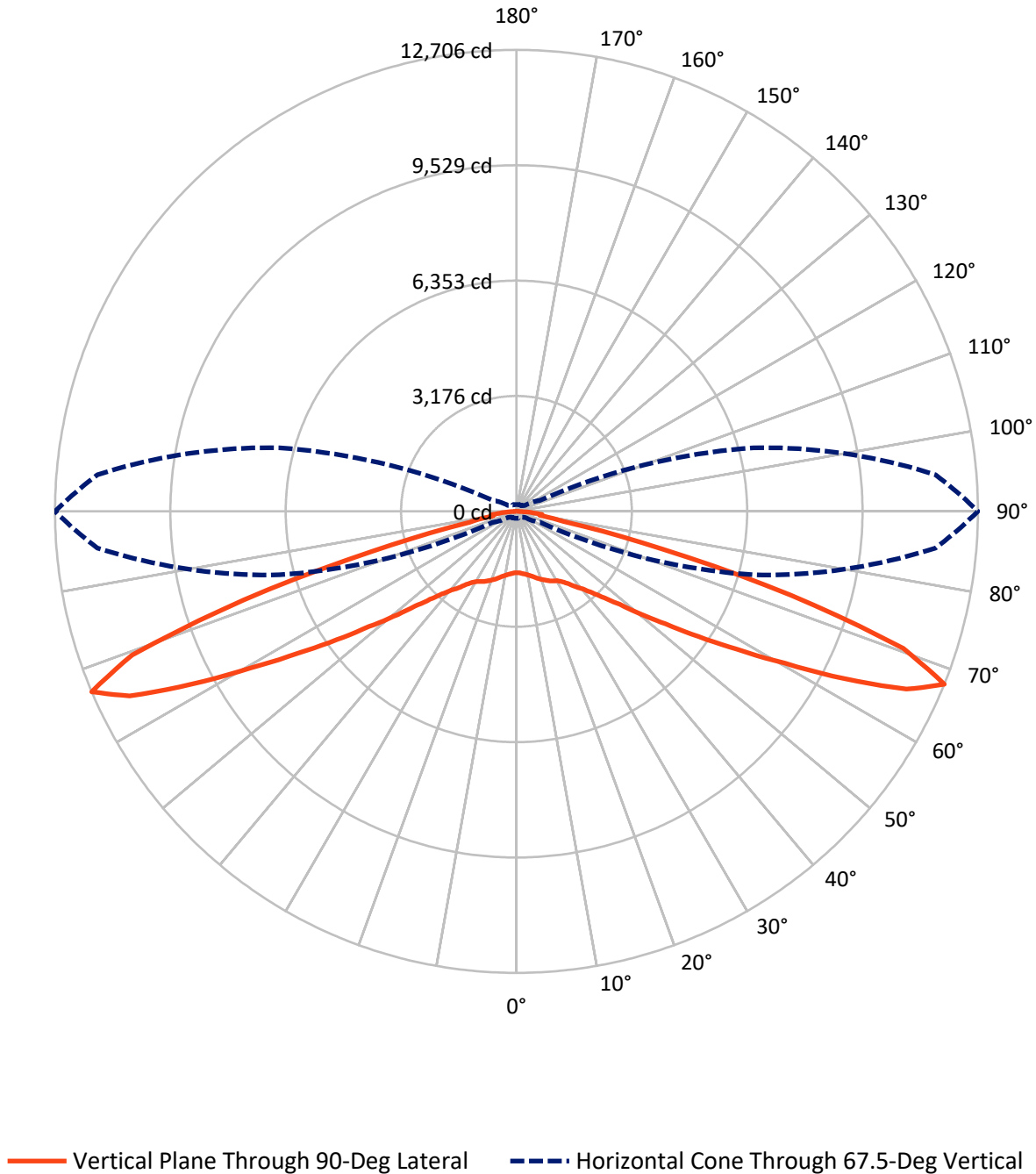
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type I - 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	4776.5	0.0	4776.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4776.5	0.0	4776.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9553.0	0.0	9553.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.6	1.8
10°-20°	539.5	5.6
20°-30°	902.9	9.5
30°-40°	1223.2	12.8
40°-50°	1549.4	16.2
50°-60°	1935.6	20.3
60°-70°	2275.2	23.8
70°-80°	870.4	9.1
80°-90°	88.2	0.9
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°	9553.0	100.0
0°-180°	9553.0	100.0



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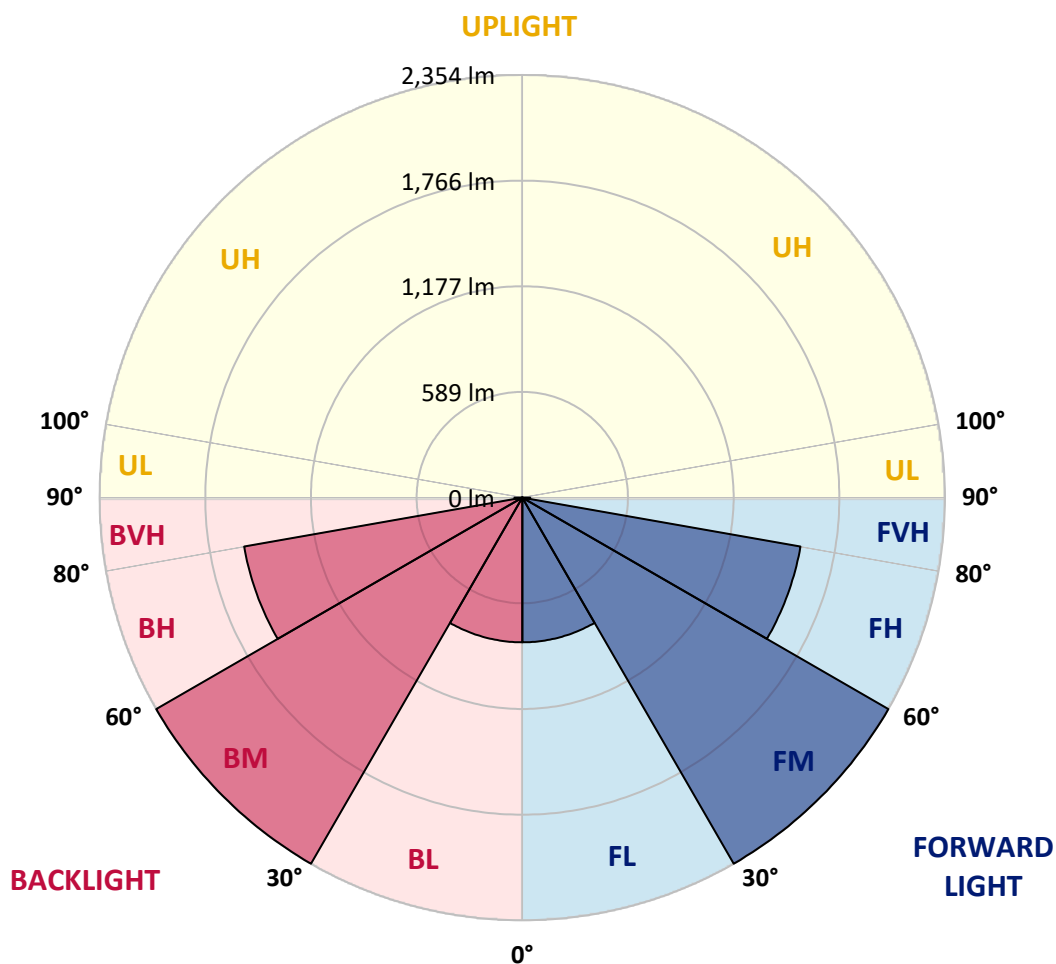
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	805.5	8.4			
FM	(30°-60°)	2354.1	24.6			
FH	(60°-80°)	1572.8	16.5			G1/1800
FVH	(80°-90°)	44.1	0.5			G1/100
BL	(0°-30°)	805.5	8.4	B2/1000		
BM	(30°-60°)	2354.1	24.6	B2/2500		
BH	(60°-80°)	1572.8	16.5	B3/2500		G3/2500
BVH	(80°-90°)	44.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2
2.5°	1712.9	1711.8	1712.3	1711.8	1713.4	1712.3	1706.0	1700.7	1696.5	1697.0	1695.4
5°	1749.4	1749.9	1750.4	1747.8	1751.5	1749.4	1739.3	1730.9	1722.4	1719.2	1718.2
7.5°	1779.5	1782.2	1783.8	1786.4	1792.7	1792.7	1787.5	1775.3	1756.8	1746.2	1745.7
10°	1809.7	1811.8	1816.5	1825.0	1835.6	1845.6	1843.5	1827.1	1803.3	1785.3	1781.1
12.5°	1820.3	1822.9	1838.8	1863.1	1886.9	1906.5	1906.5	1893.3	1862.6	1835.1	1827.1
15°	1783.2	1788.0	1816.5	1868.4	1930.8	1973.7	1983.2	1964.7	1931.9	1889.5	1880.0
17.5°	1709.7	1721.3	1763.1	1839.8	1943.5	2032.4	2059.9	2050.9	2008.6	1954.6	1943.5
20°	1630.9	1643.6	1688.0	1789.6	1932.9	2066.8	2146.6	2148.8	2096.4	2018.1	2001.7
22.5°	1544.1	1553.6	1610.8	1729.8	1901.2	2074.7	2221.2	2257.7	2186.8	2081.6	2058.3
25°	1446.8	1457.4	1517.1	1645.7	1841.4	2065.7	2289.5	2369.9	2281.5	2149.3	2119.7
27.5°	1353.7	1357.9	1421.9	1552.6	1762.6	2042.4	2339.7	2473.0	2386.3	2205.4	2167.8
30°	1264.3	1274.3	1330.9	1460.0	1672.1	1996.9	2383.1	2590.5	2498.9	2264.1	2215.9
32.5°	1169.6	1181.8	1243.1	1373.8	1581.7	1928.7	2409.5	2719.0	2656.1	2359.3	2308.0
35°	1078.6	1086.5	1148.4	1275.4	1493.3	1849.3	2414.3	2863.9	2858.7	2503.7	2435.5
37.5°	985.5	997.1	1059.6	1181.2	1399.7	1765.2	2390.5	3017.9	3103.1	2704.2	2630.7
40°	896.1	906.2	967.5	1090.2	1293.4	1662.6	2333.9	3158.6	3388.2	2910.5	2806.3
42.5°	798.8	801.4	868.6	993.4	1189.2	1543.6	2252.4	3284.0	3706.1	3187.2	3057.6
45°	688.2	695.1	757.5	880.2	1069.6	1410.3	2141.9	3387.6	4109.2	3570.7	3394.0
47.5°	577.7	583.5	640.6	761.7	939.0	1257.4	1971.5	3478.6	4522.9	4057.9	3826.2
50°	469.7	472.9	519.5	626.9	791.9	1096.6	1760.5	3507.7	4990.5	4747.7	4452.0
52.5°	371.4	376.1	411.6	495.7	634.8	906.7	1532.5	3435.8	5536.4	5565.5	5148.7
55°	301.0	302.6	329.0	390.9	496.2	707.8	1257.4	3235.3	6123.6	6613.4	6081.8
57.5°	259.2	260.3	275.1	309.5	381.9	533.8	975.5	2856.0	6651.0	7841.2	7157.8
60°	235.4	235.9	244.4	264.5	302.6	409.4	698.8	2320.7	7171.5	9207.6	8495.0
62.5°	220.6	220.6	226.4	237.5	256.0	314.2	506.2	1674.3	7528.0	10594.1	10143.4
65°	206.3	206.3	210.5	218.5	228.5	257.1	374.0	1091.8	7519.1	11603.9	11801.2
67.5°	189.9	189.9	193.1	201.0	206.8	221.1	288.8	715.2	6754.1	11581.7	12705.8
70°	170.3	170.3	174.6	181.4	186.2	195.2	228.0	489.3	4961.9	9888.9	11299.7
72.5°	150.8	151.3	153.9	160.8	164.5	169.8	189.4	342.8	3043.8	6733.5	7901.0
75°	129.1	130.1	132.8	139.7	142.8	144.9	159.8	244.4	1539.9	3630.5	4133.5
77.5°	104.2	106.3	107.9	115.3	117.4	120.6	131.7	176.7	676.0	1304.5	1316.1
80°	76.2	78.8	83.6	90.5	92.0	94.2	100.5	125.4	306.3	595.6	647.0
82.5°	56.1	59.8	54.0	62.9	62.9	60.3	70.9	84.1	140.7	589.8	705.7
85°	30.7	31.2	28.0	32.3	34.4	33.9	37.6	41.3	68.2	393.6	405.7
87.5°	7.4	7.9	8.5	10.1	12.2	12.2	13.2	11.6	22.2	127.5	73.0
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)