

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: P527835

Luminaire Tested: **GALN-SA2D-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-827-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5965 lumens  
Efficiency: N/A  
Efficacy: 47.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

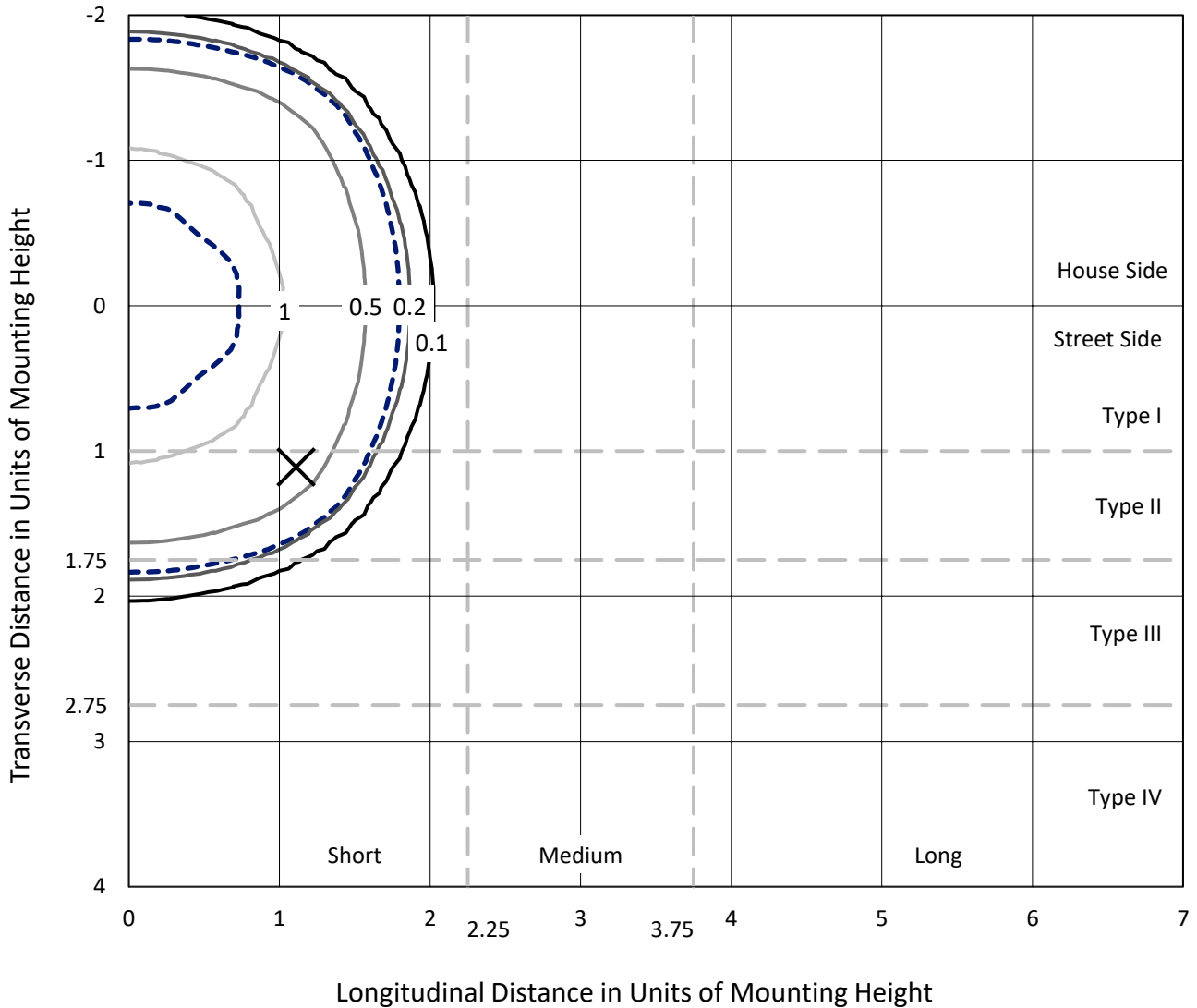
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

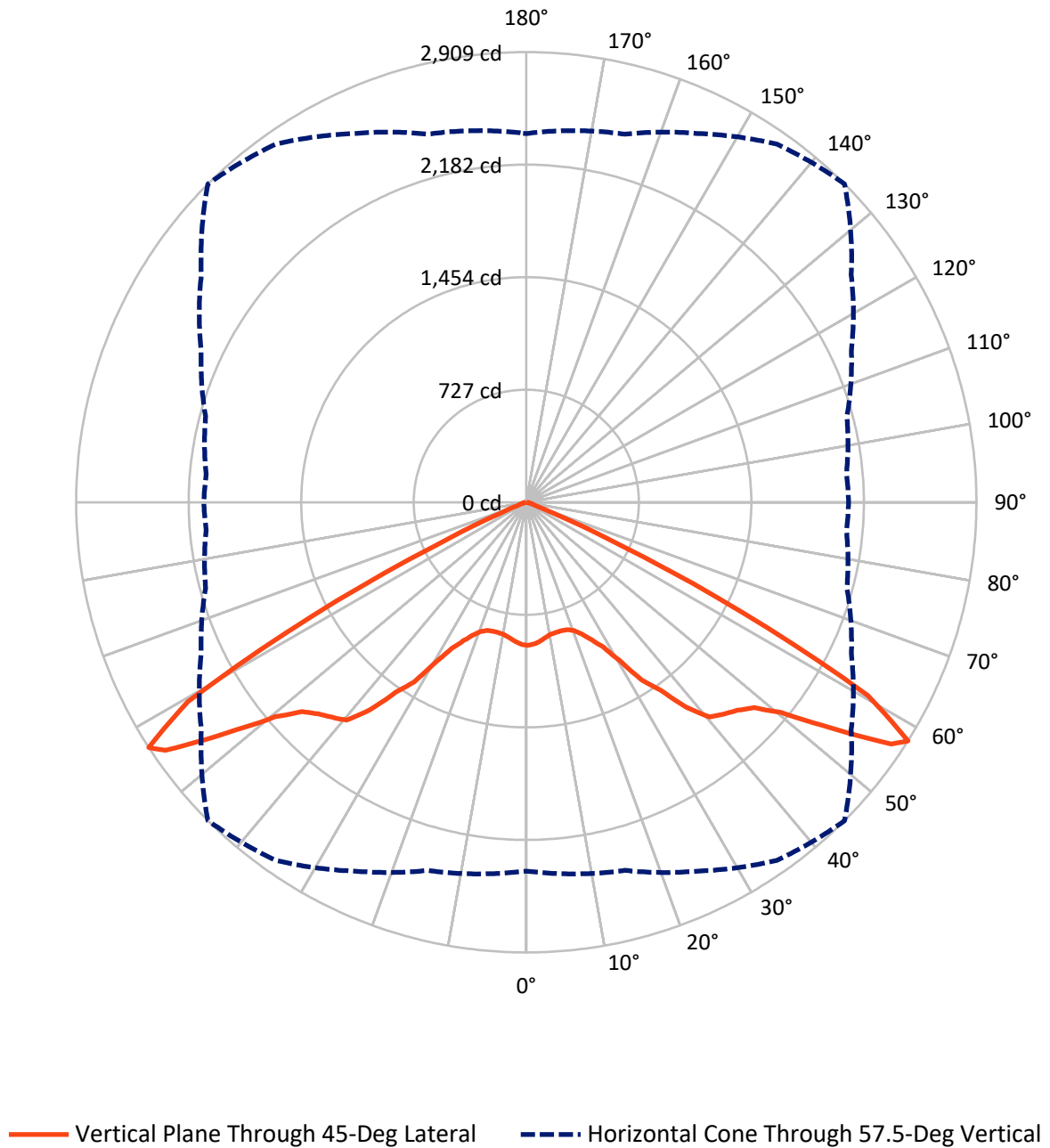
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	2982.5	0.0	2982.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2982.5	0.0	2982.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5965.0	0.0	5965.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.0	1.4
10°-20°	245.8	4.1
20°-30°	453.6	7.6
30°-40°	892.1	15.0
40°-50°	1453.0	24.4
50°-60°	2072.2	34.7
60°-70°	717.5	12.0
70°-80°	38.5	0.6
80°-90°	7.2	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°	5965.0	100.0
0°-180°	5965.0	100.0

**Coefficient of Utilization**

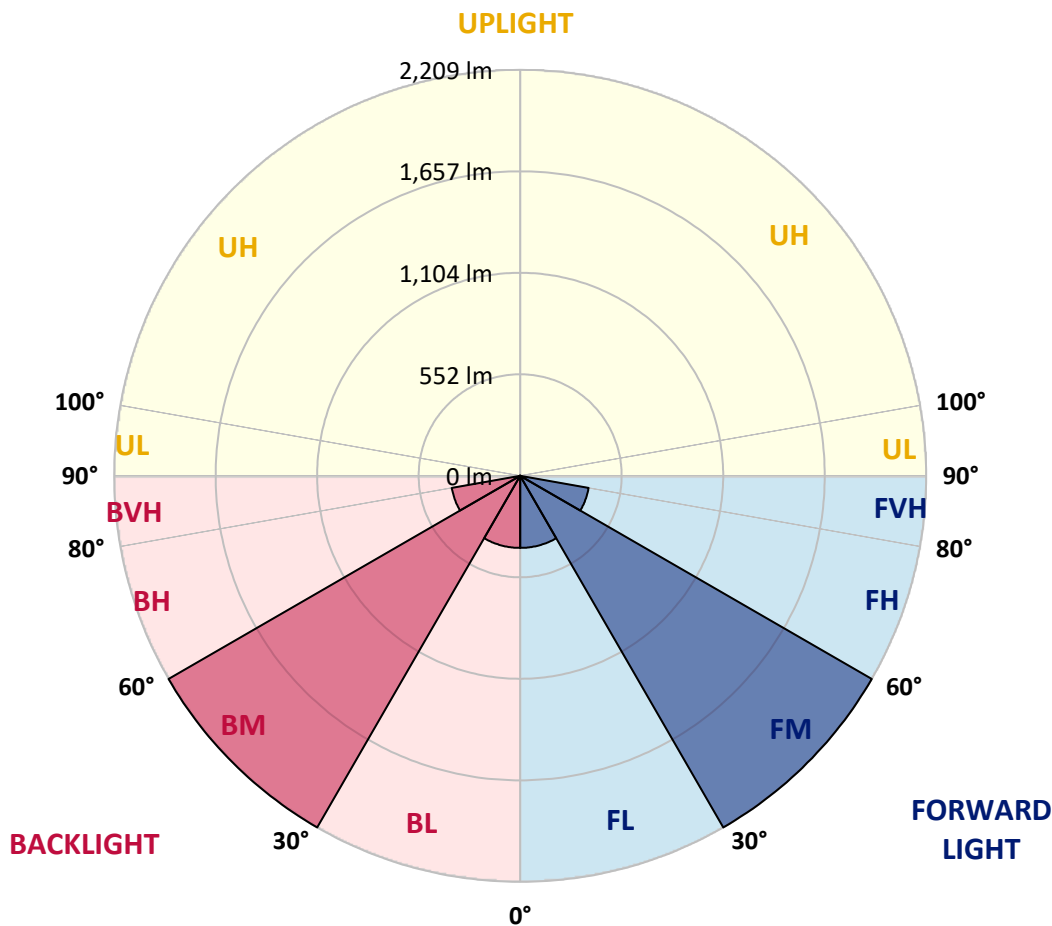


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.2	6.6			
FM (30°-60°)	2208.7	37.0			
FH (60°-80°)	378.0	6.3			G0/660
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	392.2	6.6	B1/500		
BM (30°-60°)	2208.7	37.0	B2/2500		
BH (60°-80°)	378.0	6.3	B1/500		G0/660
BVH (80°-90°)	3.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2
2.5°	922.7	927.7	921.5	919.0	917.8	917.8	914.0	914.0	912.8	914.0	909.1
5°	907.8	912.8	912.8	911.6	904.1	902.8	899.1	896.6	897.9	892.9	896.6
7.5°	892.9	896.6	891.7	890.4	887.9	883.0	881.7	870.5	871.8	871.8	874.2
10°	890.4	889.2	881.7	875.5	868.0	866.8	863.1	860.6	860.6	859.3	863.1
12.5°	890.4	884.2	883.0	869.3	856.8	861.8	851.9	845.6	854.3	856.8	861.8
15°	889.2	895.4	874.2	868.0	859.3	860.6	851.9	845.6	850.6	853.1	856.8
17.5°	896.6	892.9	886.7	874.2	870.5	865.5	854.3	849.4	849.4	855.6	856.8
20°	916.5	906.6	894.1	887.9	891.7	885.4	871.8	853.1	858.1	863.1	866.8
22.5°	935.2	927.7	919.0	915.3	936.4	926.5	902.8	881.7	874.2	883.0	889.2
25°	971.2	971.2	955.1	960.1	983.7	984.9	957.6	920.3	915.3	919.0	921.5
27.5°	1044.6	1048.3	1034.7	1039.6	1049.6	1058.3	1034.7	1003.6	992.4	991.1	994.9
30°	1124.2	1131.7	1130.4	1151.6	1180.2	1185.1	1150.3	1099.3	1065.8	1059.5	1064.5
32.5°	1228.7	1232.4	1229.9	1254.8	1331.9	1368.0	1277.2	1205.0	1160.3	1171.5	1160.3
35°	1425.2	1421.4	1394.1	1399.0	1462.5	1488.6	1401.5	1355.5	1334.4	1356.8	1351.8
37.5°	1594.3	1580.6	1558.2	1590.6	1656.5	1680.1	1589.3	1508.5	1469.9	1507.2	1523.4
40°	1737.3	1702.5	1671.4	1703.7	1792.0	1824.4	1691.3	1625.4	1610.5	1637.8	1672.6
42.5°	1857.9	1835.5	1794.5	1797.0	1855.4	1870.4	1763.4	1724.9	1709.9	1753.5	1770.9
45°	1943.7	1922.6	1884.0	1881.6	1926.3	1916.4	1820.6	1794.5	1803.2	1831.8	1840.5
47.5°	1987.3	1998.5	1976.1	1982.3	2005.9	1982.3	1906.4	1906.4	1886.5	1903.9	1895.2
50°	2112.9	2078.0	2106.6	2106.6	2131.5	2134.0	2058.1	2030.8	1977.3	1947.5	1947.5
52.5°	2259.6	2262.1	2273.3	2314.3	2356.6	2392.7	2284.5	2167.6	2078.0	2039.5	2034.5
55°	2380.2	2405.1	2449.9	2527.0	2648.9	2698.6	2512.1	2303.1	2193.7	2134.0	2121.6
56°	2446.1	2422.5	2499.6	2605.3	2764.5	2829.2	2549.4	2330.5	2209.9	2142.7	2141.5
57.5°	2382.7	2408.8	2462.3	2629.0	2824.2	2908.8	2563.0	2318.1	2145.2	2076.8	2083.0
60°	1881.6	1906.4	1978.6	2165.1	2471.0	2536.9	2168.8	1911.4	1757.2	1659.0	1660.2
62.5°	1064.5	1083.2	1139.1	1312.0	1502.3	1565.7	1351.8	1180.2	1073.2	1018.5	1001.1
65°	391.7	384.3	393.0	481.3	598.2	651.6	562.1	475.1	419.1	399.2	391.7
67.5°	146.7	135.6	126.8	135.6	170.4	180.3	165.4	138.0	129.3	133.1	135.6
70°	90.8	85.8	68.4	64.7	63.4	62.2	65.9	69.6	79.6	93.3	95.8
72.5°	63.4	59.7	48.5	46.0	43.5	42.3	48.5	53.5	62.2	72.1	73.4
75°	24.9	26.1	24.9	27.4	28.6	29.8	34.8	38.6	42.3	42.3	41.0
77.5°	5.0	5.0	7.5	9.9	12.4	16.2	23.6	27.4	28.6	27.4	23.6
80°	0.0	0.0	2.5	5.0	9.9	13.7	21.1	23.6	26.1	23.6	18.7
82.5°	0.0	0.0	2.5	6.2	9.9	12.4	19.9	24.9	28.6	26.1	19.9
85°	0.0	0.0	2.5	5.0	7.5	8.7	8.7	6.2	6.2	3.7	2.5
87.5°	0.0	0.0	0.0	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)