

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: P451351

Luminaire Tested: **GALN-SA2B-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
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-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9987 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

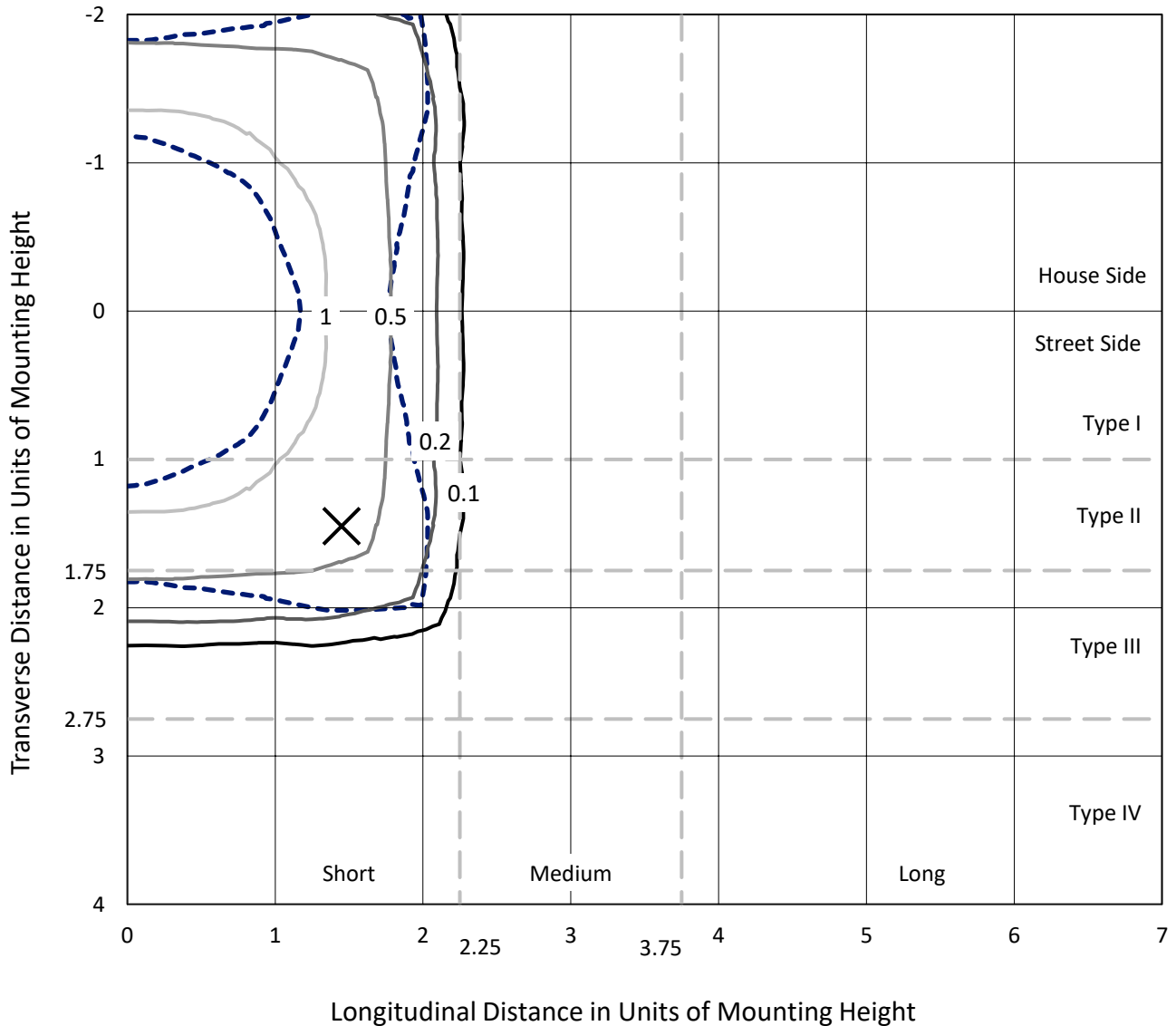
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451351
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Iso-Footcandle Lines of Horizontal Illumination

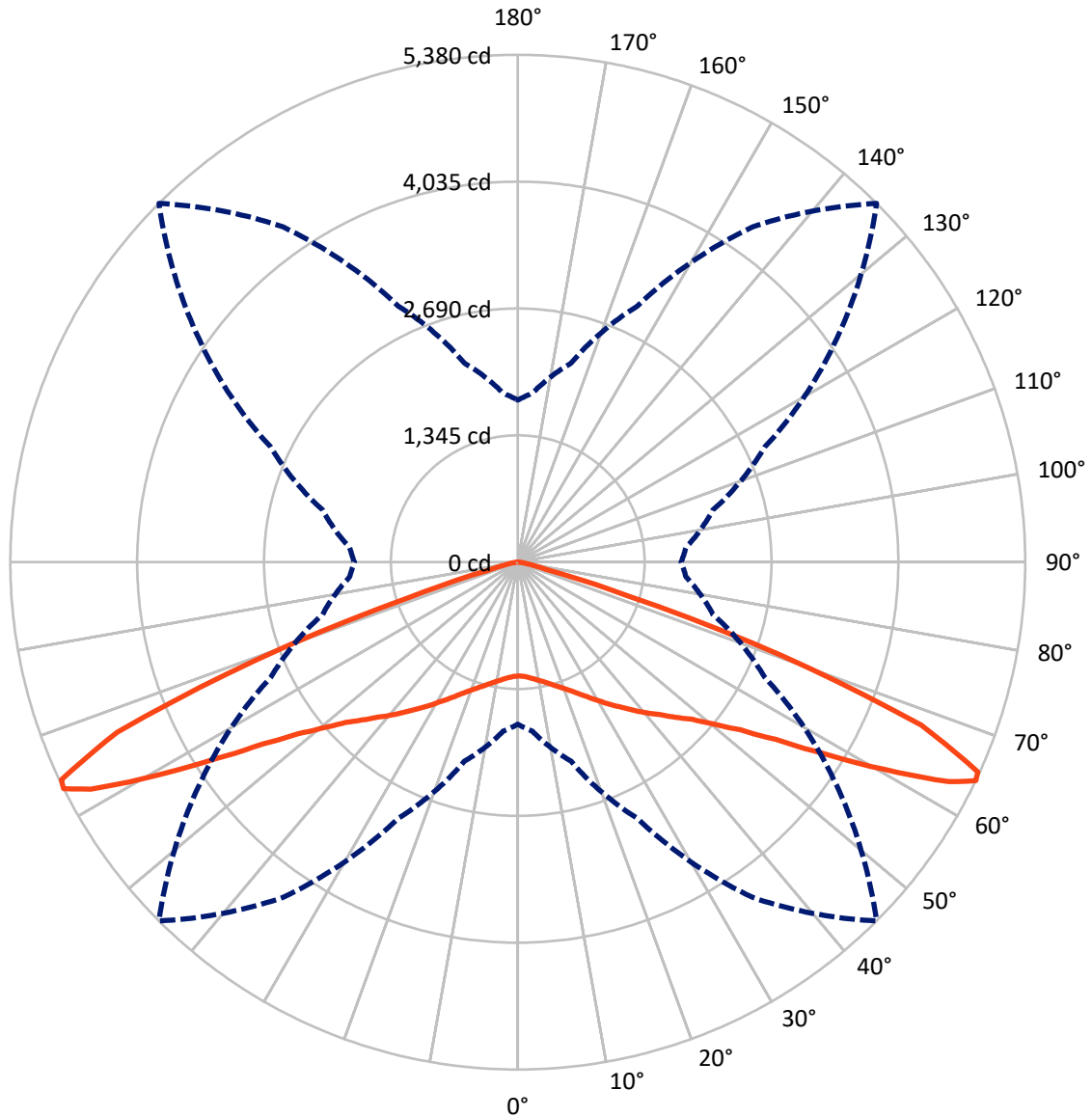
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

REPORT NUMBER: P451351
CATALOG NUMBER: GALN-SA2B-727-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4993.5	0.0	4993.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4993.5	0.0	4993.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9987.0	0.0	9987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.2
10°-20°	382.5	3.8
20°-30°	722.9	7.2
30°-40°	1197.1	12.0
40°-50°	1868.9	18.7
50°-60°	2889.3	28.9
60°-70°	2491.4	24.9
70°-80°	282.3	2.8
80°-90°	33.8	0.3
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°	9987.0	100.0
0°-180°	9987.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451351

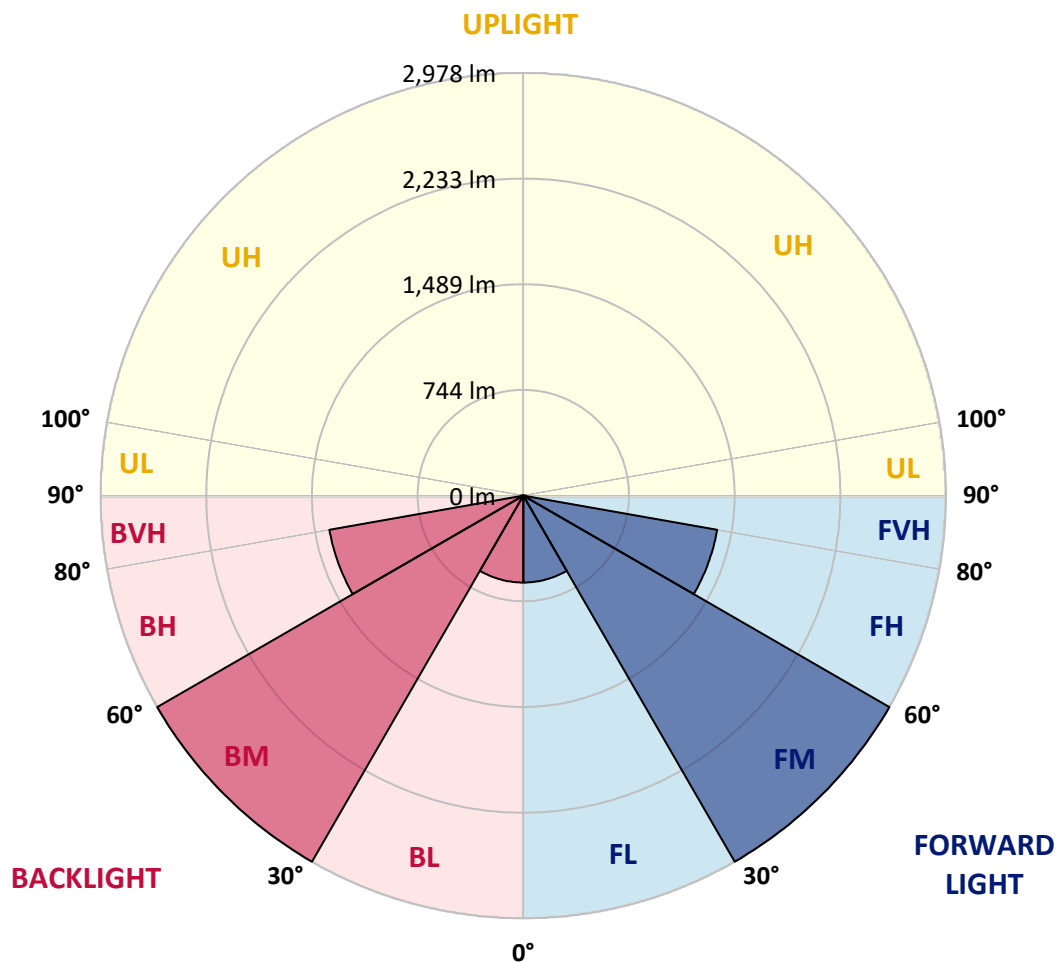
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.0	6.1			
FM (30°-60°)	2977.7	29.8			
FH (60°-80°)	1386.9	13.9			G1/1800
FVH (80°-90°)	16.9	0.2			G1/100
BL (0°-30°)	612.0	6.1	B2/1000		
BM (30°-60°)	2977.7	29.8	B3/5000		
BH (60°-80°)	1386.9	13.9	B3/2500		G1/1800
BVH (80°-90°)	16.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1211.9	1214.5	1212.4	1211.9	1211.3	1211.3	1211.3	1211.9	1214.0	1215.6	1214.5
5°	1227.2	1229.3	1228.3	1227.7	1227.2	1227.2	1226.7	1226.1	1227.7	1227.7	1227.2
7.5°	1246.2	1248.9	1247.8	1248.9	1249.4	1249.9	1247.3	1245.2	1244.7	1246.2	1245.2
10°	1272.2	1274.3	1274.8	1275.3	1276.4	1275.9	1272.7	1269.0	1268.5	1267.9	1267.4
12.5°	1301.3	1302.8	1303.4	1305.5	1307.1	1307.6	1303.9	1300.7	1295.4	1296.5	1294.4
15°	1334.0	1337.2	1336.7	1339.9	1344.1	1345.2	1341.5	1336.2	1331.4	1328.8	1327.2
17.5°	1374.2	1376.4	1375.3	1378.5	1383.8	1386.4	1383.2	1376.4	1371.6	1365.8	1362.6
20°	1421.9	1425.6	1426.6	1426.6	1431.4	1434.0	1429.3	1427.1	1419.7	1415.5	1412.9
22.5°	1475.8	1477.4	1480.6	1483.7	1488.5	1487.4	1485.9	1482.7	1475.8	1472.1	1467.9
25°	1536.6	1538.2	1546.2	1553.0	1554.6	1553.6	1551.5	1549.9	1543.5	1535.1	1531.9
27.5°	1607.5	1610.7	1621.3	1627.6	1627.6	1628.2	1623.9	1629.2	1615.5	1605.4	1604.3
30°	1696.4	1698.5	1707.5	1713.8	1710.7	1708.0	1707.0	1712.3	1697.4	1679.5	1675.2
32.5°	1784.2	1791.6	1799.5	1813.3	1802.2	1797.4	1796.4	1800.1	1783.1	1763.0	1757.2
35°	1878.4	1883.6	1898.5	1910.1	1900.0	1888.9	1893.7	1905.3	1885.2	1858.3	1857.2
37.5°	1982.6	1987.3	2006.4	2018.5	2011.1	1992.1	2000.0	2013.8	1993.7	1960.3	1953.5
40°	2091.0	2101.0	2124.9	2137.5	2125.4	2100.0	2114.8	2129.6	2111.6	2073.0	2057.7
42.5°	2212.7	2228.5	2262.9	2269.3	2246.0	2211.6	2237.5	2261.3	2248.6	2204.2	2198.4
45°	2354.9	2364.5	2406.8	2420.5	2388.3	2345.4	2377.7	2421.1	2411.5	2360.2	2349.1
47.5°	2514.2	2523.2	2567.1	2587.7	2547.0	2489.3	2547.5	2604.1	2598.3	2543.3	2538.0
50°	2702.5	2704.6	2765.4	2788.7	2748.0	2698.2	2750.1	2820.4	2797.2	2726.8	2725.8
52.5°	2908.8	2911.4	2988.1	3033.1	3010.3	2954.3	3015.6	3058.5	2999.2	2907.2	2900.3
55°	3087.6	3100.8	3205.5	3325.1	3356.3	3315.5	3334.1	3314.0	3168.0	3038.9	3018.8
57.5°	3160.6	3186.5	3345.7	3568.9	3772.0	3832.3	3689.5	3498.0	3235.1	3052.7	3033.1
60°	2982.3	3010.3	3257.4	3681.1	4199.4	4461.3	4059.8	3529.3	3082.3	2825.7	2795.0
62.5°	2388.3	2396.2	2759.6	3417.1	4448.6	5126.7	4215.8	3263.2	2637.4	2288.8	2276.7
64°	1718.6	1800.1	2185.2	2996.1	4339.6	5380.1	4125.9	2890.3	2142.3	1789.5	1732.4
65°	1285.4	1307.6	1761.5	2558.6	4147.6	5361.1	3951.4	2533.7	1774.1	1369.5	1306.0
67.5°	485.6	488.2	650.1	1275.3	2952.7	4612.6	3015.6	1378.5	747.4	540.6	521.0
70°	201.5	205.2	238.6	429.0	1269.0	2961.7	1454.1	497.2	273.5	221.6	218.5
72.5°	147.6	149.7	159.7	190.4	390.4	1216.1	478.2	211.1	160.3	143.3	141.8
75°	115.8	116.9	124.3	140.2	182.0	337.0	198.9	144.9	122.2	110.0	109.0
77.5°	88.3	91.0	96.3	106.9	122.2	159.7	131.7	108.4	94.2	84.1	82.5
80°	60.8	64.0	74.1	78.3	82.0	103.7	89.9	82.0	73.5	61.4	57.7
82.5°	37.6	39.7	49.7	53.4	51.8	58.2	57.7	58.7	52.4	38.1	35.4
85°	19.6	20.6	27.0	28.0	25.9	23.8	29.6	34.4	32.3	21.7	21.2
87.5°	4.2	4.8	5.8	5.3	5.8	5.8	7.4	11.1	11.6	7.4	6.9
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)