

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: P529239

Luminaire Tested: **GALN-SA4B-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529239
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-SA4B-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA 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: 8632 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

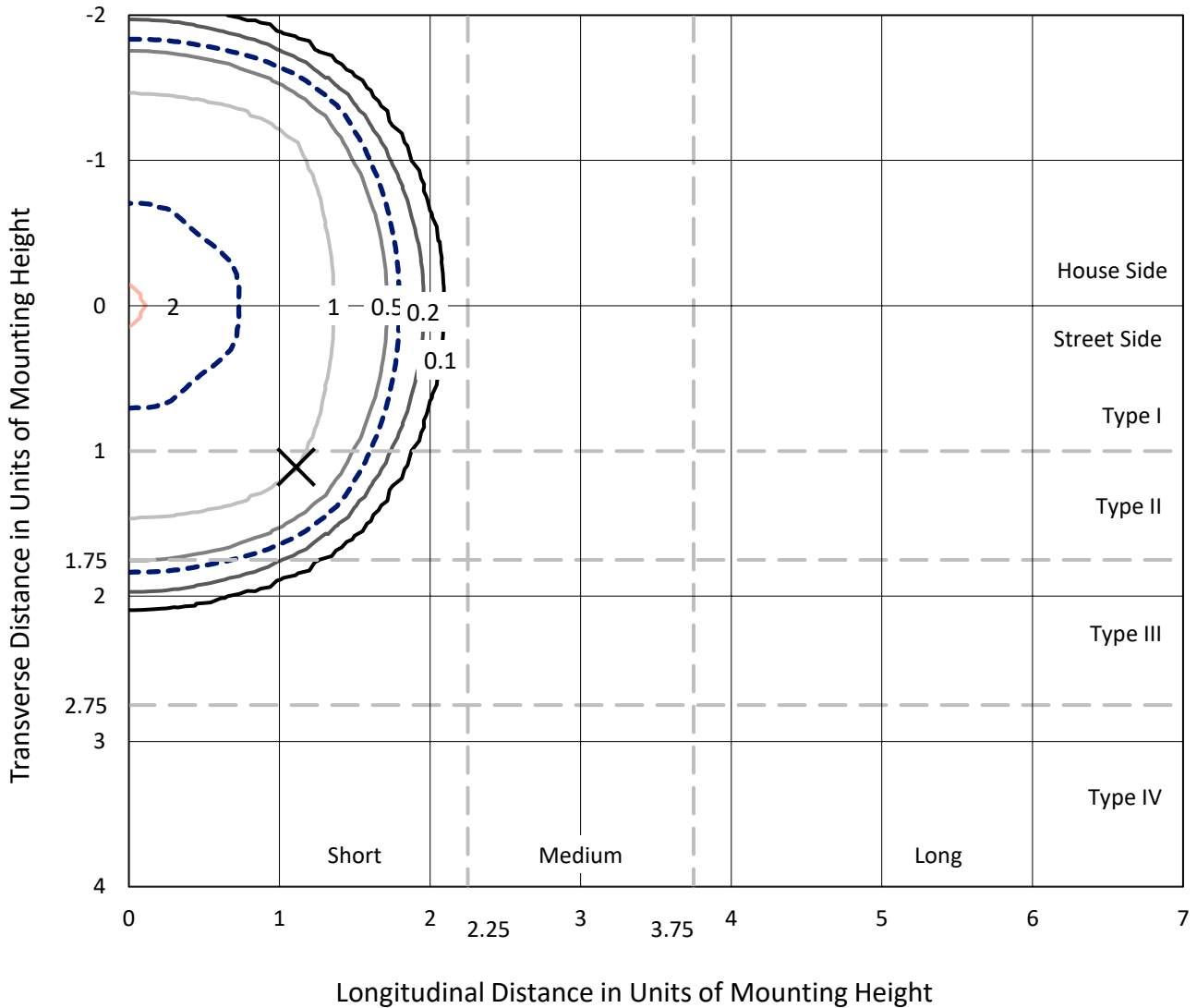
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

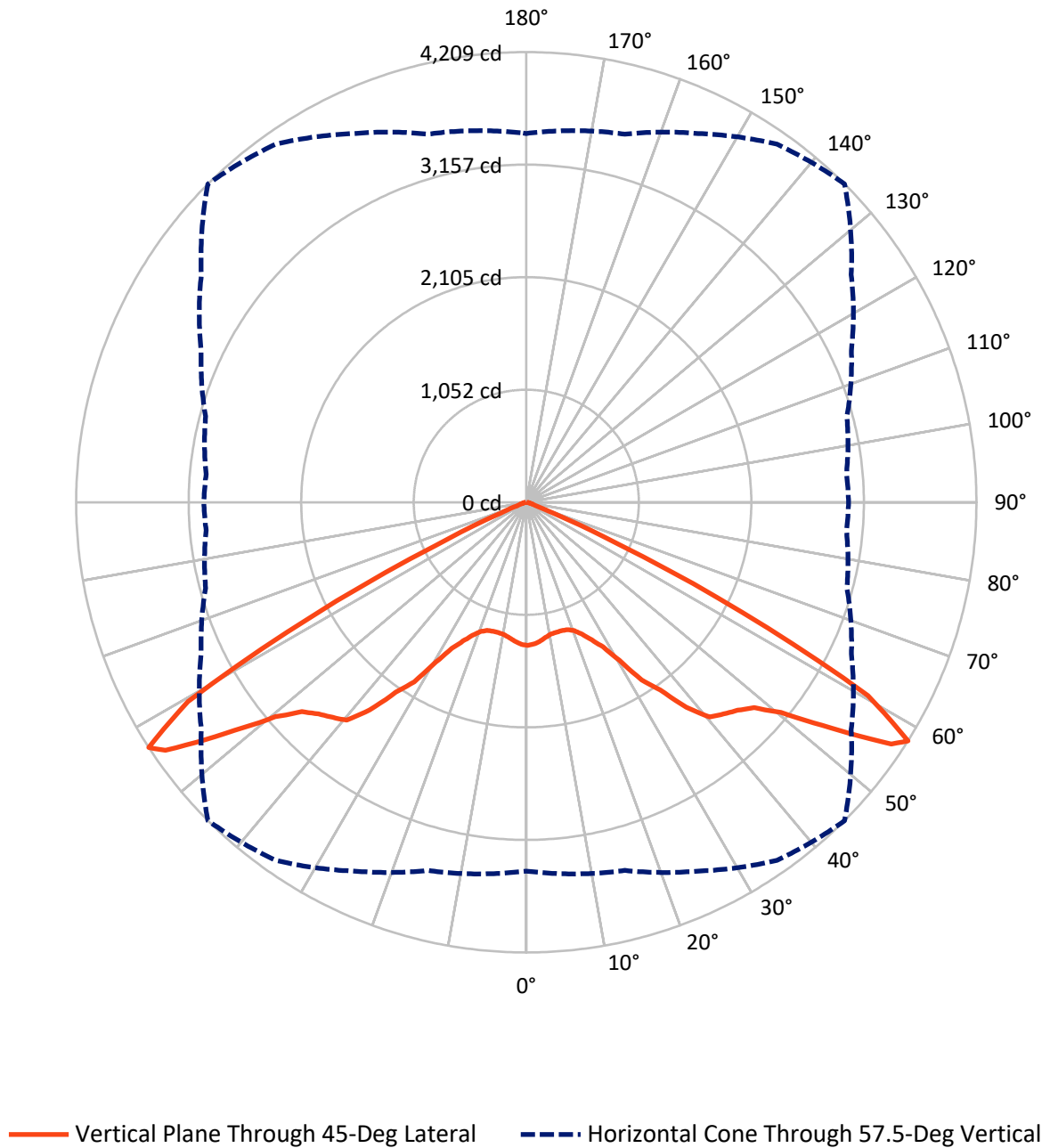
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4316.0	0.0	4316.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4316.0	0.0	4316.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8632.0	0.0	8632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	1.4
10°-20°	355.6	4.1
20°-30°	656.5	7.6
30°-40°	1291.0	15.0
40°-50°	2102.7	24.4
50°-60°	2998.7	34.7
60°-70°	1038.2	12.0
70°-80°	55.7	0.6
80°-90°	10.5	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°	8632.0	100.0
0°-180°	8632.0	100.0

Coefficient of Utilization



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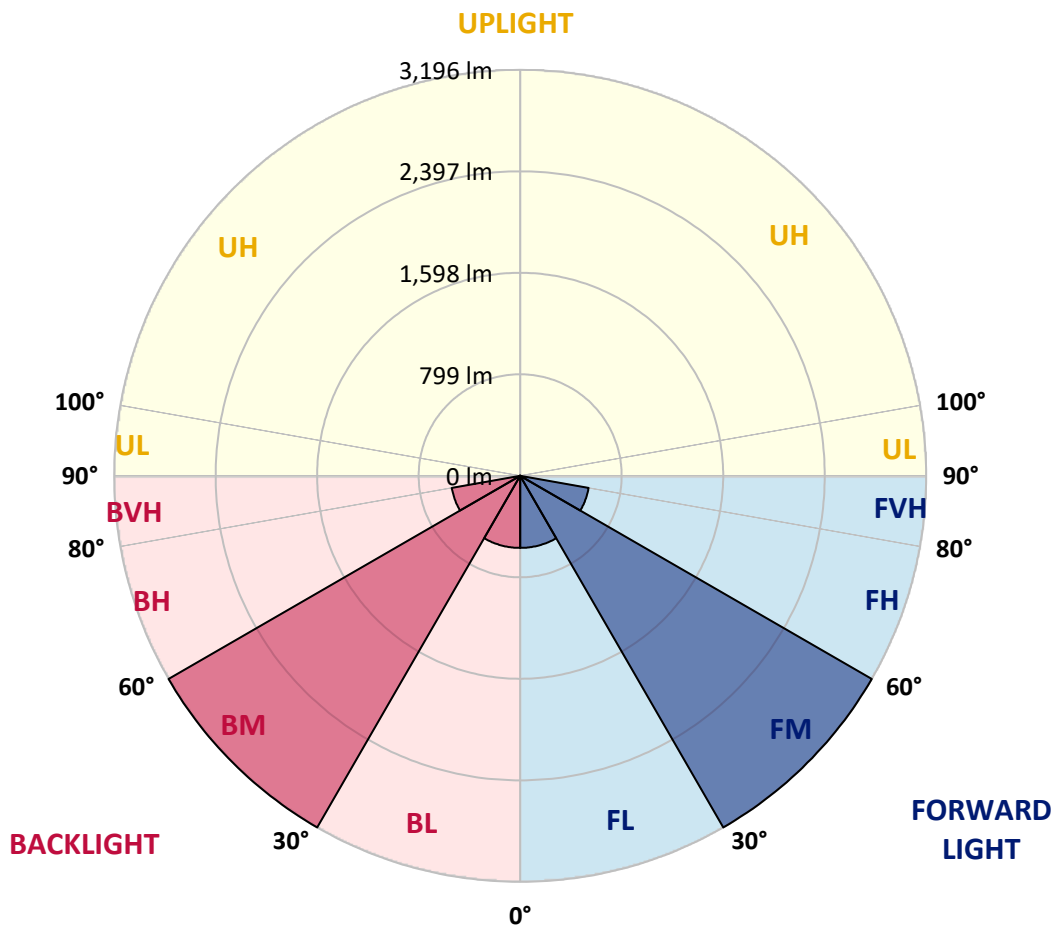
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.6	6.6			
FM (30°-60°)	3196.2	37.0			
FH (60°-80°)	547.0	6.3			G0/660
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	567.6	6.6	B2/1000		
BM (30°-60°)	3196.2	37.0	B3/5000		
BH (60°-80°)	547.0	6.3	B2/1000		G0/660
BVH (80°-90°)	5.2	0.1			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°	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9
2.5°	1335.3	1342.5	1333.5	1329.9	1328.1	1328.1	1322.7	1322.7	1320.9	1322.7	1315.5
5°	1313.7	1320.9	1320.9	1319.1	1308.3	1306.5	1301.1	1297.5	1299.3	1292.1	1297.5
7.5°	1292.1	1297.5	1290.3	1288.5	1284.9	1277.7	1275.9	1259.7	1261.5	1261.5	1265.1
10°	1288.5	1286.7	1275.9	1266.9	1256.1	1254.3	1248.9	1245.3	1245.3	1243.5	1248.9
12.5°	1288.5	1279.5	1277.7	1257.9	1239.9	1247.1	1232.7	1223.7	1236.3	1239.9	1247.1
15°	1286.7	1295.7	1265.1	1256.1	1243.5	1245.3	1232.7	1223.7	1230.9	1234.5	1239.9
17.5°	1297.5	1292.1	1283.1	1265.1	1259.7	1252.5	1236.3	1229.1	1229.1	1238.1	1239.9
20°	1326.3	1311.9	1293.9	1284.9	1290.3	1281.3	1261.5	1234.5	1241.7	1248.9	1254.3
22.5°	1353.3	1342.5	1329.9	1324.5	1355.1	1340.7	1306.5	1275.9	1265.1	1277.7	1286.7
25°	1405.5	1405.5	1382.1	1389.3	1423.5	1425.3	1385.7	1331.7	1324.5	1329.9	1333.5
27.5°	1511.7	1517.1	1497.3	1504.5	1518.9	1531.5	1497.3	1452.3	1436.1	1434.3	1439.7
30°	1626.9	1637.6	1635.9	1666.4	1707.8	1715.0	1664.6	1590.9	1542.3	1533.3	1540.5
32.5°	1778.0	1783.4	1779.8	1815.8	1927.4	1979.6	1848.2	1743.8	1679.0	1695.2	1679.0
35°	2062.4	2057.0	2017.4	2024.6	2116.3	2154.1	2028.2	1961.6	1931.0	1963.4	1956.2
37.5°	2307.1	2287.3	2254.9	2301.7	2397.1	2431.3	2299.9	2182.9	2127.1	2181.1	2204.5
40°	2514.1	2463.7	2418.7	2465.5	2593.2	2640.0	2447.5	2352.1	2330.5	2370.1	2420.5
42.5°	2688.6	2656.2	2596.8	2600.4	2685.0	2706.6	2551.9	2496.1	2474.5	2537.5	2562.7
45°	2812.8	2782.2	2726.4	2722.8	2787.6	2773.2	2634.6	2596.8	2609.4	2650.8	2663.4
47.5°	2875.8	2892.0	2859.6	2868.6	2902.8	2868.6	2758.8	2758.8	2730.0	2755.2	2742.6
50°	3057.5	3007.2	3048.5	3048.5	3084.5	3088.1	2978.4	2938.8	2861.4	2818.2	2818.2
52.5°	3269.9	3273.5	3289.7	3349.1	3410.3	3462.5	3305.9	3136.7	3007.2	2951.4	2944.2
55°	3444.5	3480.5	3545.2	3656.8	3833.2	3905.2	3635.2	3332.9	3174.5	3088.1	3070.1
56°	3539.8	3505.7	3617.2	3770.2	4000.5	4094.1	3689.2	3372.5	3197.9	3100.7	3098.9
57.5°	3448.1	3485.9	3563.2	3804.4	4086.9	4209.3	3709.0	3354.5	3104.3	3005.4	3014.4
60°	2722.8	2758.8	2863.2	3133.1	3575.8	3671.2	3138.5	2766.0	2542.9	2400.7	2402.5
62.5°	1540.5	1567.5	1648.4	1898.6	2173.9	2265.7	1956.2	1707.8	1553.1	1473.9	1448.7
65°	566.9	556.1	568.7	696.5	865.6	943.0	813.4	687.5	606.5	577.7	566.9
67.5°	212.4	196.2	183.6	196.2	246.5	260.9	239.3	199.8	187.2	192.6	196.2
70°	131.4	124.2	99.0	93.6	91.8	90.0	95.4	100.8	115.2	135.0	138.6
72.5°	91.8	86.4	70.2	66.6	63.0	61.2	70.2	77.4	90.0	104.4	106.2
75°	36.0	37.8	36.0	39.6	41.4	43.2	50.4	55.8	61.2	61.2	59.4
77.5°	7.2	7.2	10.8	14.4	18.0	23.4	34.2	39.6	41.4	39.6	34.2
80°	0.0	0.0	3.6	7.2	14.4	19.8	30.6	34.2	37.8	34.2	27.0
82.5°	0.0	0.0	3.6	9.0	14.4	18.0	28.8	36.0	41.4	37.8	28.8
85°	0.0	0.0	3.6	7.2	10.8	12.6	12.6	9.0	9.0	5.4	3.6
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)