

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: P529001

Luminaire Tested: **GALN-SA4A-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7981 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

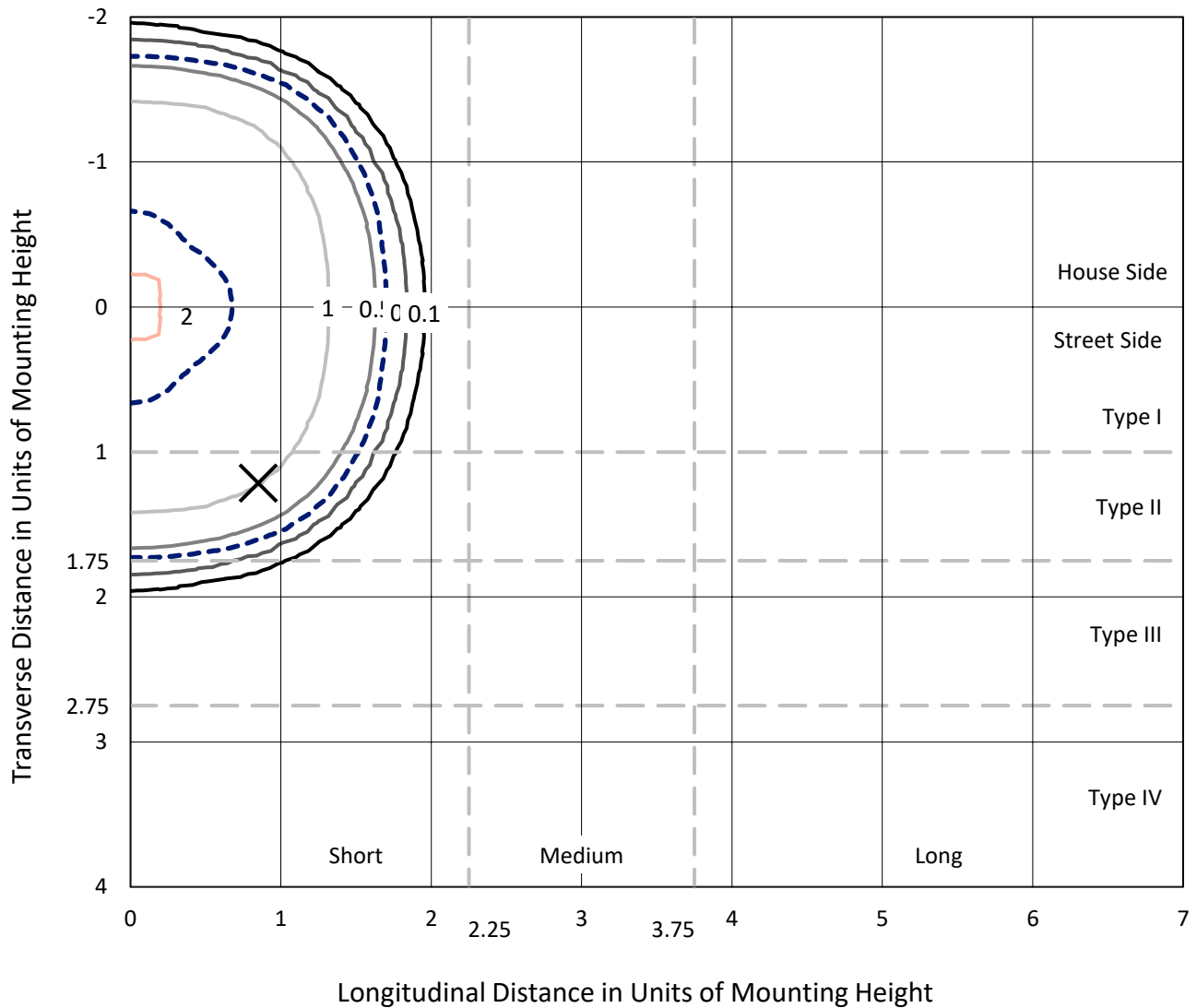
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

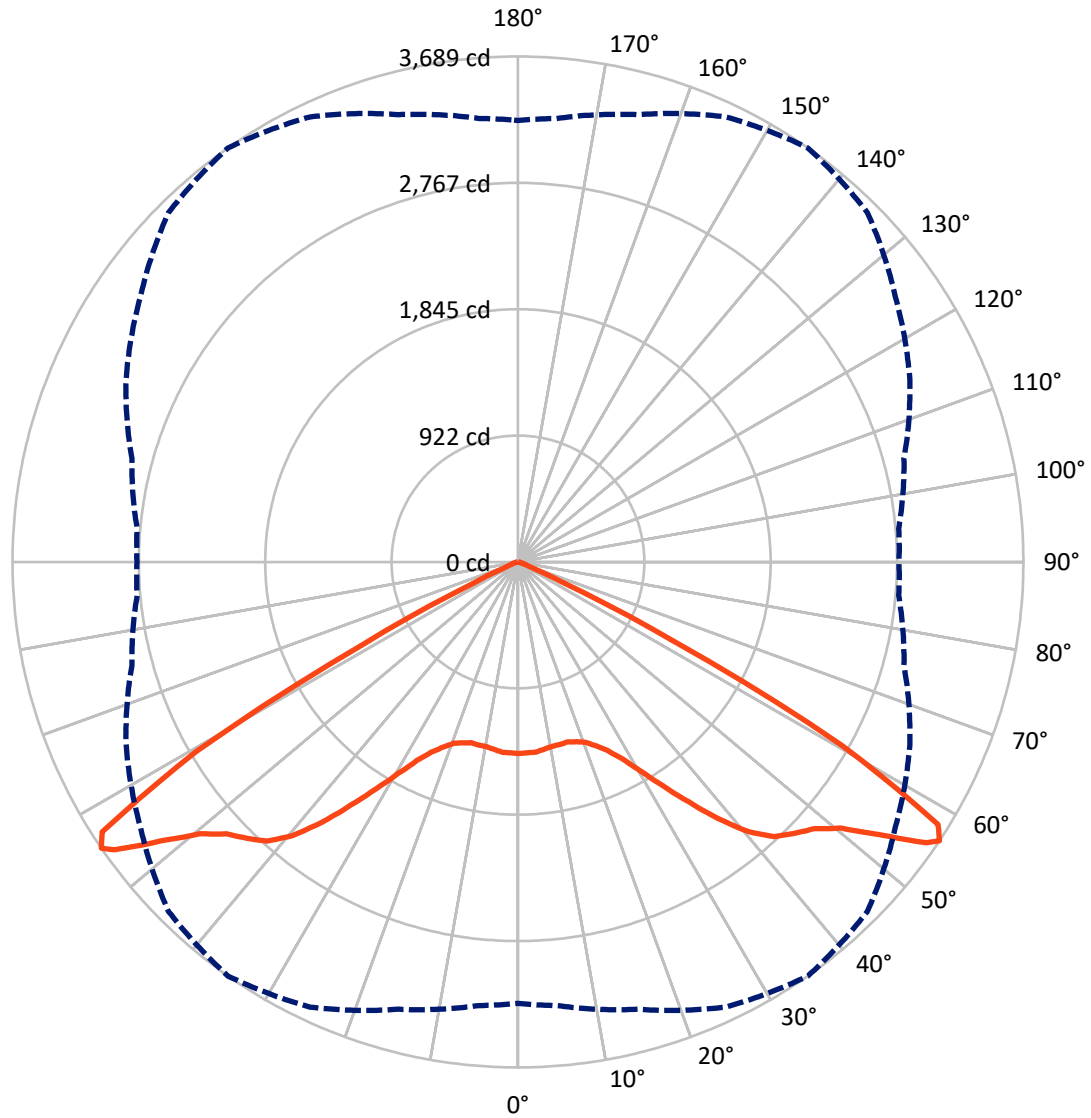
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3990.5	0.0	3990.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3990.5	0.0	3990.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7981.0	0.0	7981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	1.6
10°-20°	383.7	4.8
20°-30°	694.9	8.7
30°-40°	1288.5	16.1
40°-50°	2115.0	26.5
50°-60°	2724.8	34.1
60°-70°	600.5	7.5
70°-80°	34.8	0.4
80°-90°	7.3	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°	7981.0	100.0
0°-180°	7981.0	100.0

Coefficient of Utilization

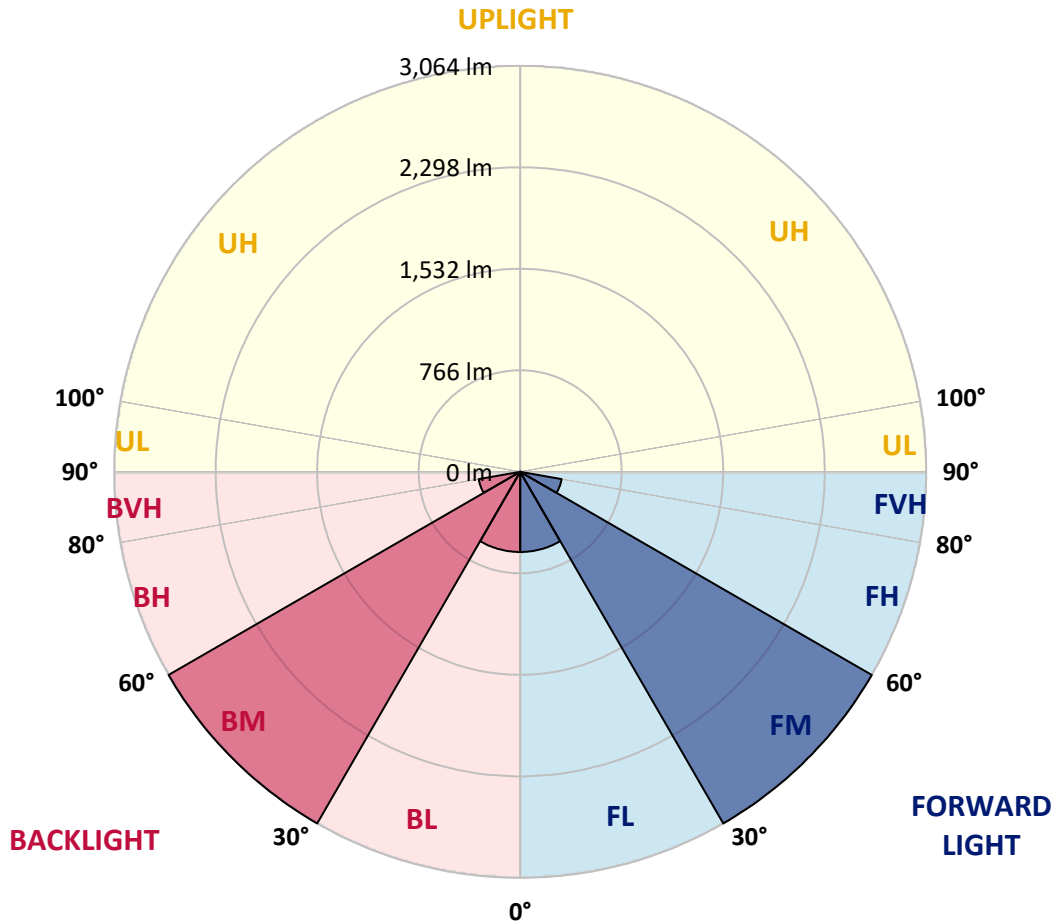


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.0	7.6			
FM (30°-60°)	3064.2	38.4			
FH (60°-80°)	317.7	4.0			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	605.0	7.6	B2/1000		
BM (30°-60°)	3064.2	38.4	B3/5000		
BH (60°-80°)	317.7	4.0	B1/500		G0/660
BVH (80°-90°)	3.7	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°	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4	1398.4
2.5°	1401.3	1401.3	1402.8	1404.2	1394.1	1389.8	1391.2	1388.3	1386.9	1391.2	1391.2
5°	1397.0	1397.0	1392.7	1394.1	1394.1	1381.1	1381.1	1384.0	1384.0	1375.3	1372.4
7.5°	1385.4	1382.5	1376.8	1384.0	1379.6	1379.6	1369.5	1362.3	1359.4	1365.2	1359.4
10°	1360.8	1362.3	1368.1	1371.0	1368.1	1376.8	1359.4	1349.3	1339.2	1334.8	1334.8
12.5°	1349.3	1358.0	1349.3	1356.5	1366.6	1359.4	1349.3	1342.0	1327.6	1321.8	1321.8
15°	1347.8	1353.6	1356.5	1366.6	1362.3	1365.2	1344.9	1336.3	1314.6	1304.4	1300.1
17.5°	1346.4	1353.6	1358.0	1376.8	1379.6	1381.1	1365.2	1339.2	1320.3	1310.2	1300.1
20°	1362.3	1365.2	1373.9	1392.7	1404.2	1424.5	1395.6	1368.1	1327.6	1316.0	1311.7
22.5°	1382.5	1397.0	1405.7	1425.9	1456.3	1473.6	1436.0	1401.3	1359.4	1344.9	1327.6
25°	1447.6	1444.7	1459.2	1501.1	1525.7	1538.7	1508.4	1457.7	1402.8	1385.4	1388.3
27.5°	1528.6	1531.5	1544.5	1590.8	1626.9	1647.2	1611.0	1544.5	1491.0	1462.1	1459.2
30°	1634.2	1631.3	1645.7	1707.9	1773.0	1803.4	1739.7	1661.6	1609.6	1572.0	1580.7
32.5°	1745.5	1747.0	1787.5	1843.9	1949.4	2008.7	1906.0	1810.6	1732.5	1706.5	1693.5
35°	1910.4	1917.6	1949.4	2036.2	2153.3	2230.0	2117.2	2002.9	1913.3	1865.6	1871.3
37.5°	2114.3	2107.1	2160.6	2254.6	2377.5	2433.9	2338.5	2208.3	2117.2	2085.4	2105.6
40°	2331.2	2338.5	2365.9	2451.3	2588.6	2626.2	2484.5	2413.7	2334.1	2318.2	2342.8
42.5°	2548.1	2543.8	2564.1	2640.7	2740.5	2714.5	2630.6	2588.6	2532.2	2500.4	2533.7
45°	2707.2	2700.0	2737.6	2789.7	2825.8	2776.6	2739.0	2724.6	2695.7	2660.9	2691.3
47.5°	2862.0	2856.2	2892.3	2906.8	2909.7	2844.6	2851.8	2877.9	2805.6	2733.3	2768.0
50°	2993.6	2983.4	3028.3	3060.1	3052.9	2948.7	2974.8	2948.7	2835.9	2750.6	2737.6
52.5°	3213.4	3217.7	3265.4	3323.3	3305.9	3219.2	3181.6	3063.0	2918.4	2841.7	2796.9
55°	3352.2	3330.5	3413.0	3596.6	3616.9	3527.2	3360.9	3185.9	2969.0	2875.0	2863.4
56°	3222.1	3249.5	3379.7	3585.0	3689.2	3606.7	3365.2	3155.5	2916.9	2789.7	2781.0
57.5°	2890.9	2876.4	3052.9	3333.4	3616.9	3582.2	3246.6	2938.6	2660.9	2517.8	2500.4
60°	1799.0	1841.0	1995.7	2342.8	2721.7	2739.0	2406.4	2141.8	1817.8	1690.6	1720.9
62.5°	704.3	668.1	765.0	1023.9	1284.2	1342.0	1216.2	1010.9	830.1	704.3	695.6
65°	163.4	159.1	179.3	247.3	345.6	400.6	380.3	273.3	201.0	190.9	176.4
67.5°	92.6	92.6	88.2	88.2	96.9	102.7	98.3	96.9	101.2	105.6	104.1
70°	65.1	63.6	60.7	62.2	59.3	59.3	63.6	70.9	76.6	76.6	78.1
72.5°	39.0	39.0	39.0	43.4	43.4	43.4	47.7	53.5	55.0	53.5	52.1
75°	17.4	17.4	20.2	24.6	27.5	28.9	33.3	36.2	39.0	36.2	33.3
77.5°	4.3	4.3	7.2	10.1	13.0	15.9	21.7	26.0	27.5	26.0	21.7
80°	1.4	1.4	2.9	7.2	13.0	15.9	21.7	23.1	24.6	21.7	17.4
82.5°	1.4	1.4	2.9	7.2	10.1	13.0	17.4	20.2	21.7	18.8	17.4
85°	0.0	1.4	2.9	5.8	8.7	11.6	11.6	8.7	7.2	4.3	5.8
87.5°	0.0	0.0	1.4	1.4	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)