

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: P452193

Luminaire Tested: **GALN-SA3A-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10503 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

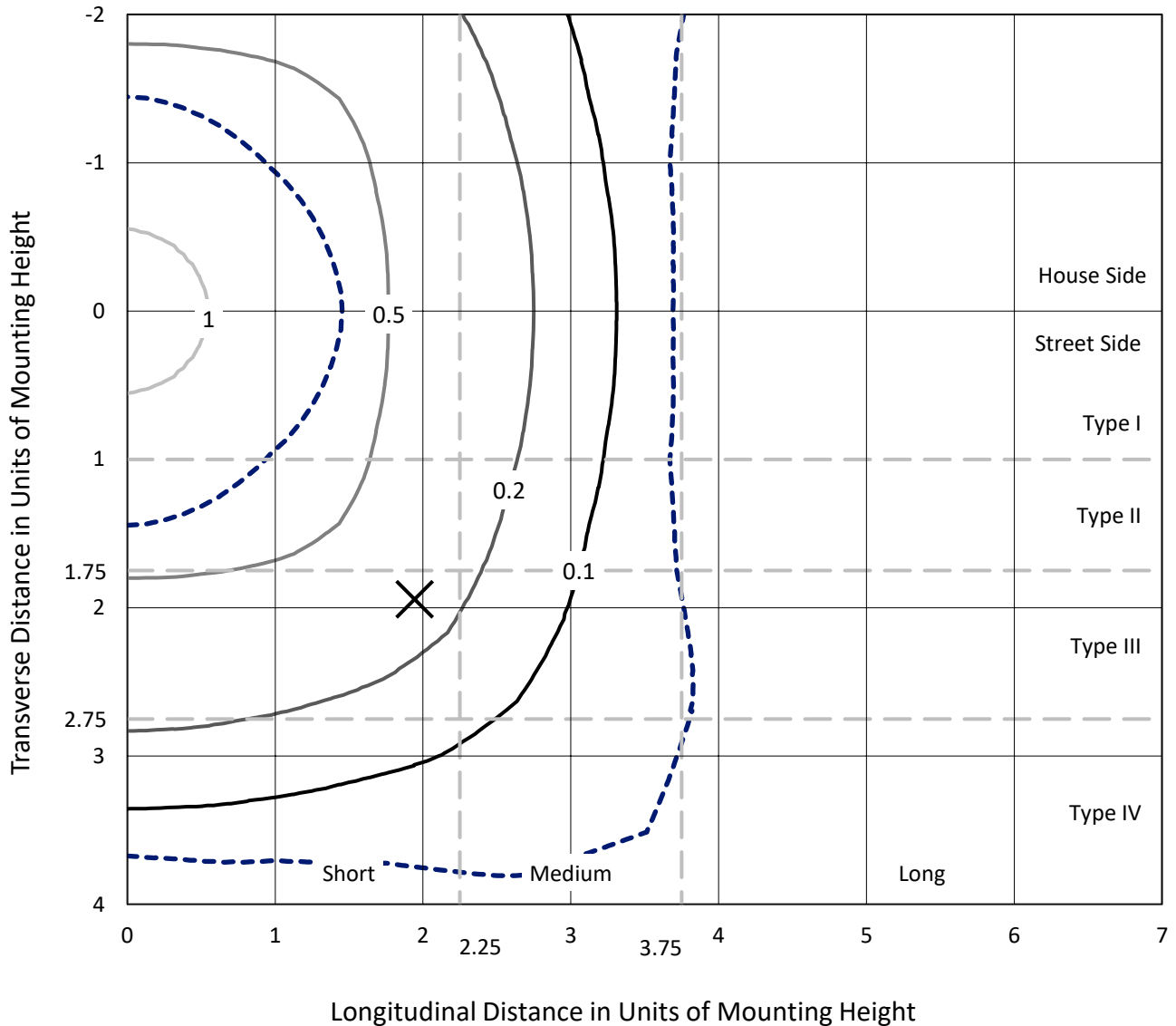
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

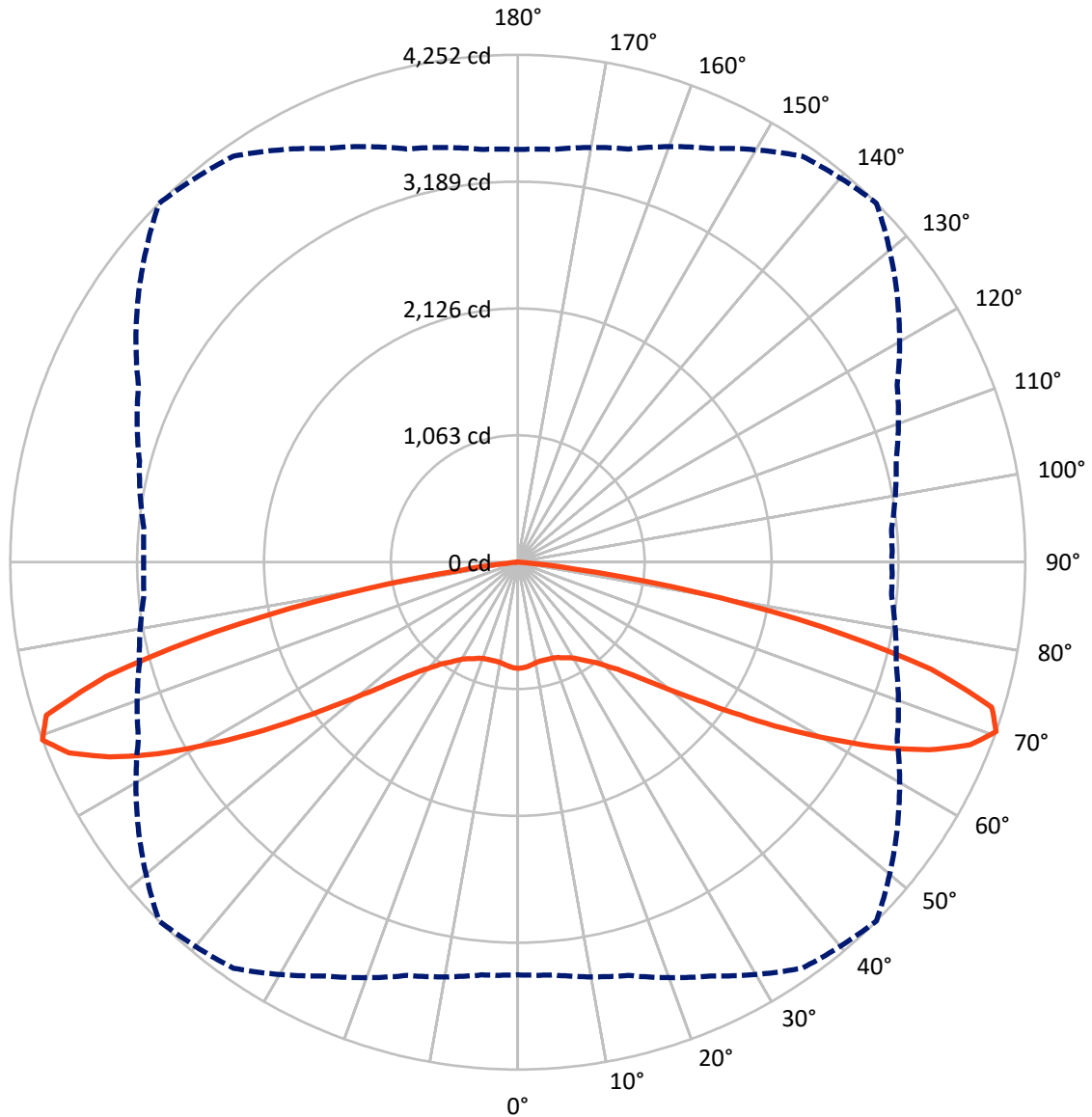
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5251.5	0.0	5251.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5251.5	0.0	5251.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10503.0	0.0	10503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	0.8
10°-20°	243.4	2.3
20°-30°	414.8	3.9
30°-40°	642.9	6.1
40°-50°	1082.1	10.3
50°-60°	1968.8	18.7
60°-70°	3333.2	31.7
70°-80°	2580.0	24.6
80°-90°	154.6	1.5
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°	10503.0	100.0
0°-180°	10503.0	100.0

Coefficient of Utilization



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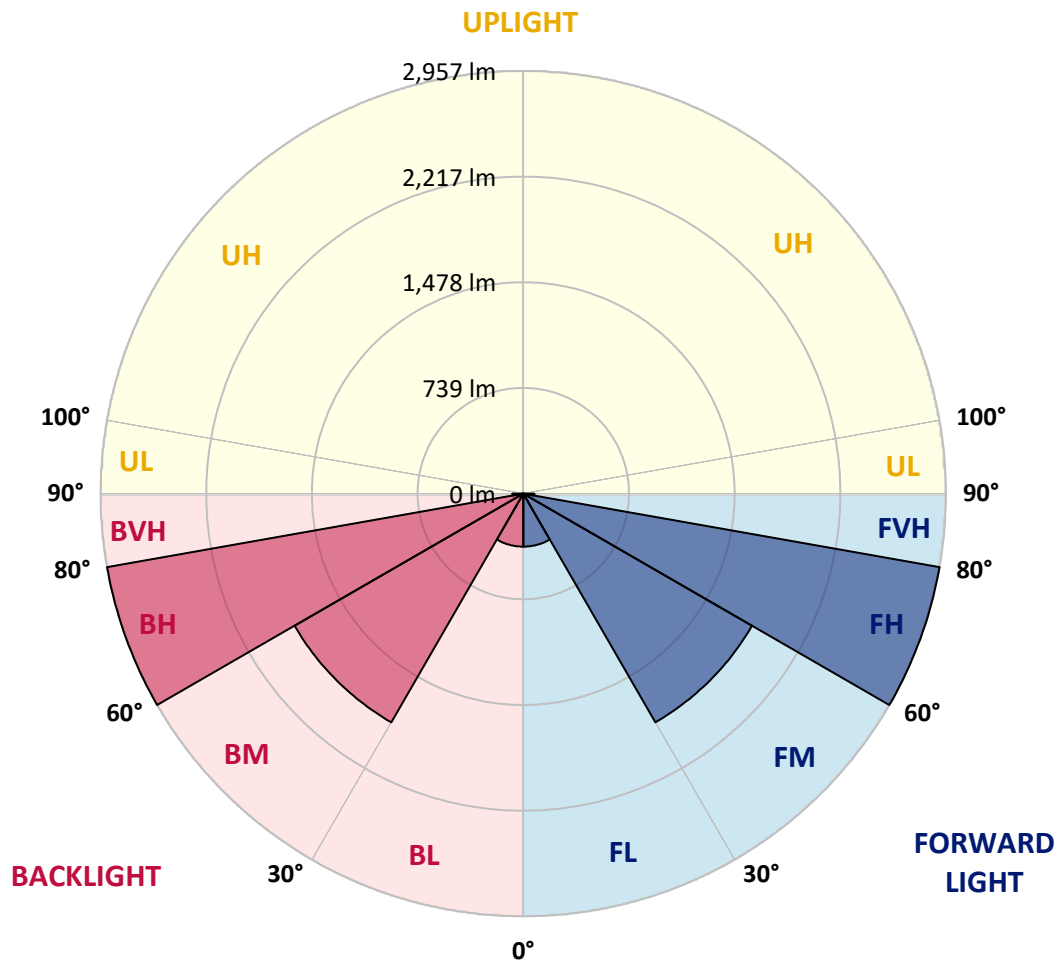
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.7	3.5			
FM (30°-60°)	1846.9	17.6			
FH (60°-80°)	2956.6	28.2			G2/5000
FVH (80°-90°)	77.3	0.7			G1/100
BL (0°-30°)	370.7	3.5	B1/500		
BM (30°-60°)	1846.9	17.6	B2/2500		
BH (60°-80°)	2956.6	28.2	B4/5000		G2/5000
BVH (80°-90°)	77.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2
2.5°	887.0	887.5	887.5	886.4	885.9	885.9	885.3	885.3	887.0	887.5	888.1
5°	879.2	879.2	879.2	878.7	877.6	877.6	876.4	876.4	877.0	878.7	877.6
7.5°	868.7	869.8	869.8	867.6	865.9	865.9	865.4	865.9	866.5	868.1	867.6
10°	865.4	865.9	863.1	859.3	856.5	854.8	855.4	856.5	859.3	860.4	860.9
12.5°	867.6	867.6	862.6	857.0	852.0	849.8	849.3	853.2	858.1	861.5	862.6
15°	870.3	869.2	863.1	855.9	850.9	850.4	849.8	852.6	859.8	866.5	867.0
17.5°	872.0	871.5	863.7	854.8	852.0	852.0	851.5	853.7	861.5	869.8	870.3
20°	877.6	875.9	867.0	857.6	855.4	856.5	854.8	857.6	865.9	875.9	878.1
22.5°	888.7	887.0	878.1	868.7	867.6	867.6	867.0	869.8	878.7	889.2	890.9
25°	902.0	900.3	892.0	885.3	886.4	888.7	887.5	888.1	895.3	904.2	907.0
27.5°	919.7	916.9	909.7	904.2	907.5	907.5	907.5	907.0	911.4	919.7	922.5
30°	941.4	940.2	932.5	931.9	934.7	931.9	931.9	932.5	933.0	940.8	943.6
32.5°	969.6	967.4	963.5	962.4	970.2	972.4	964.6	957.4	961.3	969.1	970.8
35°	1016.2	1012.9	1007.4	1001.3	1007.4	1017.9	1001.3	995.7	1005.7	1016.2	1017.3
37.5°	1079.5	1077.8	1068.9	1057.8	1057.3	1068.4	1051.2	1050.6	1069.5	1082.2	1083.9
40°	1158.8	1160.5	1149.4	1138.8	1133.3	1142.2	1128.8	1133.8	1152.1	1166.6	1165.5
42.5°	1270.3	1264.2	1247.0	1237.0	1230.9	1227.6	1224.3	1232.0	1252.5	1268.1	1280.3
45°	1400.7	1398.4	1376.8	1364.6	1351.3	1346.3	1345.2	1359.1	1384.0	1402.9	1404.5
47.5°	1548.2	1543.2	1529.3	1516.6	1511.6	1505.5	1499.9	1510.5	1535.5	1548.8	1552.6
50°	1700.2	1701.3	1701.3	1699.1	1704.1	1705.2	1690.2	1694.1	1708.0	1706.9	1705.7
52.5°	1873.8	1879.9	1908.8	1911.5	1935.4	1951.5	1924.3	1908.2	1903.2	1873.3	1875.5
55°	2078.0	2083.5	2126.8	2170.0	2234.4	2261.6	2204.4	2154.5	2119.0	2073.5	2075.7
57.5°	2332.6	2335.3	2376.4	2459.6	2561.7	2625.5	2525.1	2426.3	2354.2	2310.9	2293.7
60°	2606.6	2609.4	2669.3	2770.8	2929.4	3007.1	2882.9	2721.4	2630.5	2564.4	2568.9
62.5°	2935.5	2946.6	3000.5	3140.2	3332.7	3419.8	3255.1	3039.3	2916.1	2834.0	2837.4
65°	3287.8	3306.7	3365.5	3519.1	3696.6	3790.4	3588.4	3339.4	3186.3	3085.9	3096.4
67.5°	3516.3	3533.0	3617.8	3787.6	4008.9	4086.6	3825.9	3535.8	3344.4	3224.6	3202.4
70°	3458.1	3472.0	3585.1	3825.9	4153.7	4251.9	3882.4	3506.9	3281.7	3143.6	3134.7
72.5°	3052.6	3023.7	3189.1	3534.6	3988.4	4153.1	3704.4	3202.9	2919.5	2777.5	2760.8
75°	2023.0	2085.7	2329.8	2737.0	3374.3	3578.5	3161.9	2571.7	2215.0	2096.8	2078.5
77.5°	676.2	724.5	941.4	1551.5	2300.4	2607.2	2303.7	1681.9	1189.9	958.5	963.0
80°	179.2	177.0	229.1	426.6	994.0	1509.9	1157.1	569.7	311.7	225.8	214.1
82.5°	64.3	72.1	92.6	118.2	263.5	469.3	331.2	159.8	117.0	86.5	83.8
85°	28.3	27.7	39.9	47.2	66.0	87.6	77.7	67.7	59.4	39.4	36.6
87.5°	6.1	6.1	9.4	7.2	11.6	11.6	14.4	17.2	17.8	11.6	9.4
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)