

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: P451236

Luminaire Tested: **GALN-SA2A-760-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451236
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-SA2A-760-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 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: 9625 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

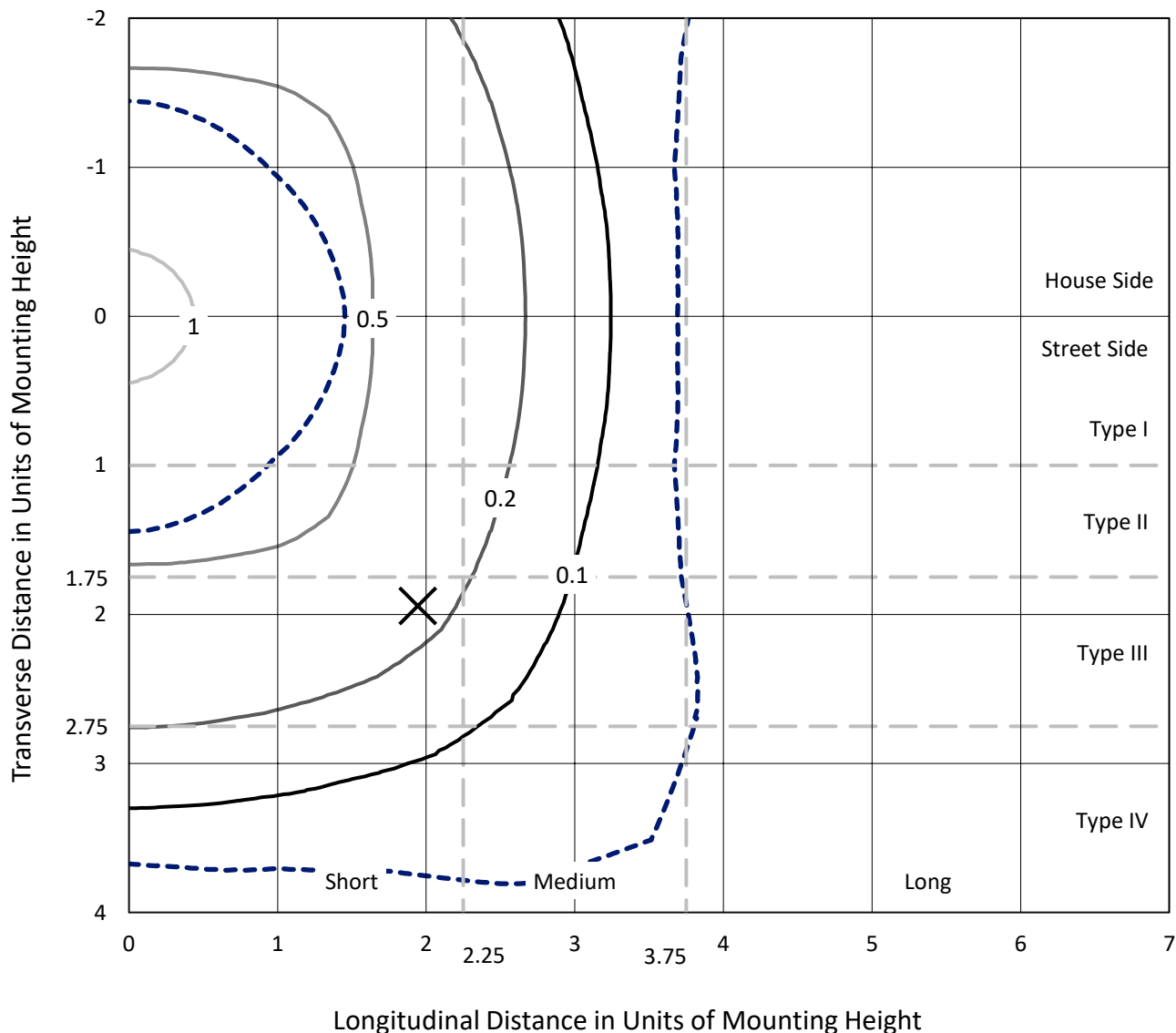
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

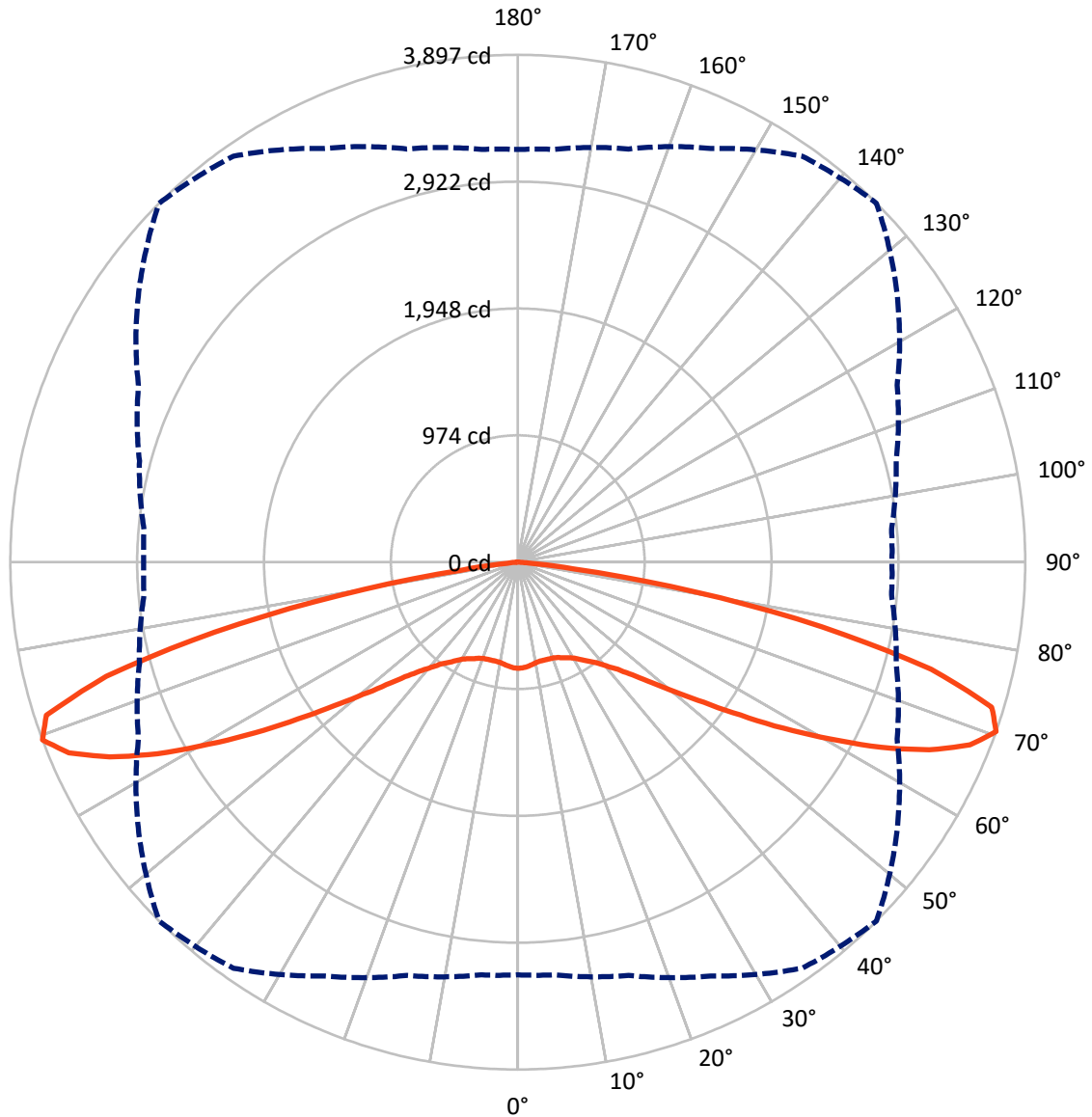
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	4812.5	0.0	4812.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4812.5	0.0	4812.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9625.0	0.0	9625.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	0.8
10°-20°	223.1	2.3
20°-30°	380.1	3.9
30°-40°	589.2	6.1
40°-50°	991.6	10.3
50°-60°	1804.2	18.7
60°-70°	3054.5	31.7
70°-80°	2364.3	24.6
80°-90°	141.7	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°	9625.0	100.0
0°-180°	9625.0	100.0



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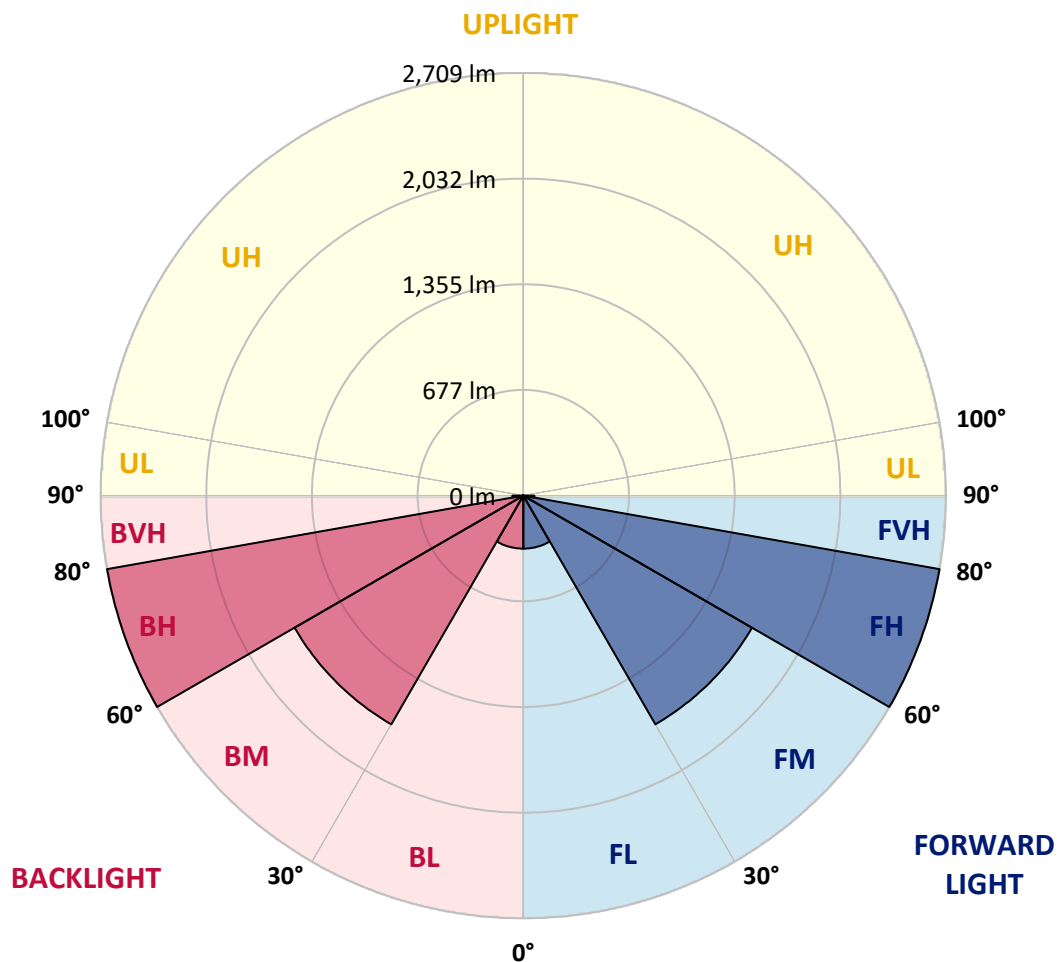
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.7	3.5			
FM (30°-60°)	1692.5	17.6			
FH (60°-80°)	2709.4	28.1			G2/5000
FVH (80°-90°)	70.8	0.7			G1/100
BL (0°-30°)	339.7	3.5	B1/500		
BM (30°-60°)	1692.5	17.6	B2/2500		
BH (60°-80°)	2709.4	28.1	B4/5000		G2/5000
BVH (80°-90°)	70.8	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°	814.9	814.9	814.9	814.9	814.9	814.9	814.9	814.9	814.9	814.9	814.9
2.5°	812.8	813.3	813.3	812.3	811.8	811.8	811.3	811.3	812.8	813.3	813.9
5°	805.7	805.7	805.7	805.2	804.2	804.2	803.2	803.2	803.7	805.2	804.2
7.5°	796.1	797.1	797.1	795.0	793.5	793.5	793.0	793.5	794.0	795.6	795.0
10°	793.0	793.5	791.0	787.4	784.9	783.4	783.9	784.9	787.4	788.4	788.9
12.5°	795.0	795.0	790.5	785.4	780.8	778.8	778.3	781.8	786.4	789.5	790.5
15°	797.6	796.6	791.0	784.4	779.8	779.3	778.8	781.3	787.9	794.0	794.5
17.5°	799.1	798.6	791.5	783.4	780.8	780.8	780.3	782.3	789.5	797.1	797.6
20°	804.2	802.7	794.5	785.9	783.9	784.9	783.4	785.9	793.5	802.7	804.7
22.5°	814.4	812.8	804.7	796.1	795.0	795.0	794.5	797.1	805.2	814.9	816.4
25°	826.6	825.0	817.4	811.3	812.3	814.4	813.3	813.9	820.5	828.6	831.1
27.5°	842.8	840.3	833.7	828.6	831.6	831.6	831.6	831.1	835.2	842.8	845.4
30°	862.7	861.6	854.5	854.0	856.6	854.0	854.0	854.5	855.0	862.2	864.7
32.5°	888.6	886.6	883.0	882.0	889.1	891.1	884.0	877.4	881.0	888.1	889.6
35°	931.3	928.2	923.2	917.6	923.2	932.8	917.6	912.5	921.6	931.3	932.3
37.5°	989.2	987.7	979.6	969.4	968.9	979.1	963.3	962.8	980.1	991.8	993.3
40°	1061.9	1063.5	1053.3	1043.6	1038.5	1046.7	1034.5	1039.1	1055.8	1069.0	1068.0
42.5°	1164.1	1158.5	1142.8	1133.6	1128.0	1125.0	1121.9	1129.0	1147.8	1162.1	1173.3
45°	1283.6	1281.5	1261.7	1250.5	1238.3	1233.7	1232.7	1245.4	1268.3	1285.6	1287.1
47.5°	1418.8	1414.2	1401.5	1389.8	1385.2	1379.6	1374.6	1384.2	1407.1	1419.3	1422.9
50°	1558.1	1559.1	1559.1	1557.1	1561.6	1562.6	1548.9	1552.5	1565.2	1564.2	1563.2
52.5°	1717.2	1722.8	1749.2	1751.8	1773.6	1788.4	1763.4	1748.7	1744.1	1716.7	1718.7
55°	1904.3	1909.3	1949.0	1988.6	2047.6	2072.5	2020.2	1974.4	1941.9	1900.2	1902.2
57.5°	2137.6	2140.1	2177.7	2254.0	2347.5	2406.0	2314.0	2223.5	2157.4	2117.8	2102.0
60°	2388.7	2391.2	2446.1	2539.2	2684.6	2755.7	2641.9	2493.9	2410.6	2350.1	2354.1
62.5°	2690.2	2700.3	2749.6	2877.7	3054.1	3133.9	2983.0	2785.2	2672.4	2597.1	2600.2
65°	3013.0	3030.2	3084.1	3224.9	3387.6	3473.5	3288.5	3060.2	2919.9	2827.9	2837.6
67.5°	3222.4	3237.6	3315.4	3471.0	3673.8	3745.0	3506.0	3240.2	3064.8	2955.0	2934.7
70°	3169.0	3181.7	3285.4	3506.0	3806.5	3896.5	3557.9	3213.7	3007.4	2880.8	2872.6
72.5°	2797.4	2771.0	2922.5	3239.2	3655.0	3806.0	3394.7	2935.2	2675.4	2545.3	2530.0
75°	1853.9	1911.4	2135.0	2508.2	3092.3	3279.3	2897.6	2356.7	2029.8	1921.5	1904.8
77.5°	619.7	663.9	862.7	1421.8	2108.1	2389.2	2111.1	1541.3	1090.4	878.4	882.5
80°	164.2	162.2	209.9	390.9	911.0	1383.7	1060.4	522.1	285.7	206.9	196.2
82.5°	59.0	66.1	84.9	108.3	241.5	430.1	303.5	146.4	107.3	79.3	76.8
85°	25.9	25.4	36.6	43.2	60.5	80.3	71.2	62.0	54.4	36.1	33.6
87.5°	5.6	5.6	8.6	6.6	10.7	10.7	13.2	15.8	16.3	10.7	8.6
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)