

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: P451031

Luminaire Tested: **GALN-SA1D-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6035 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

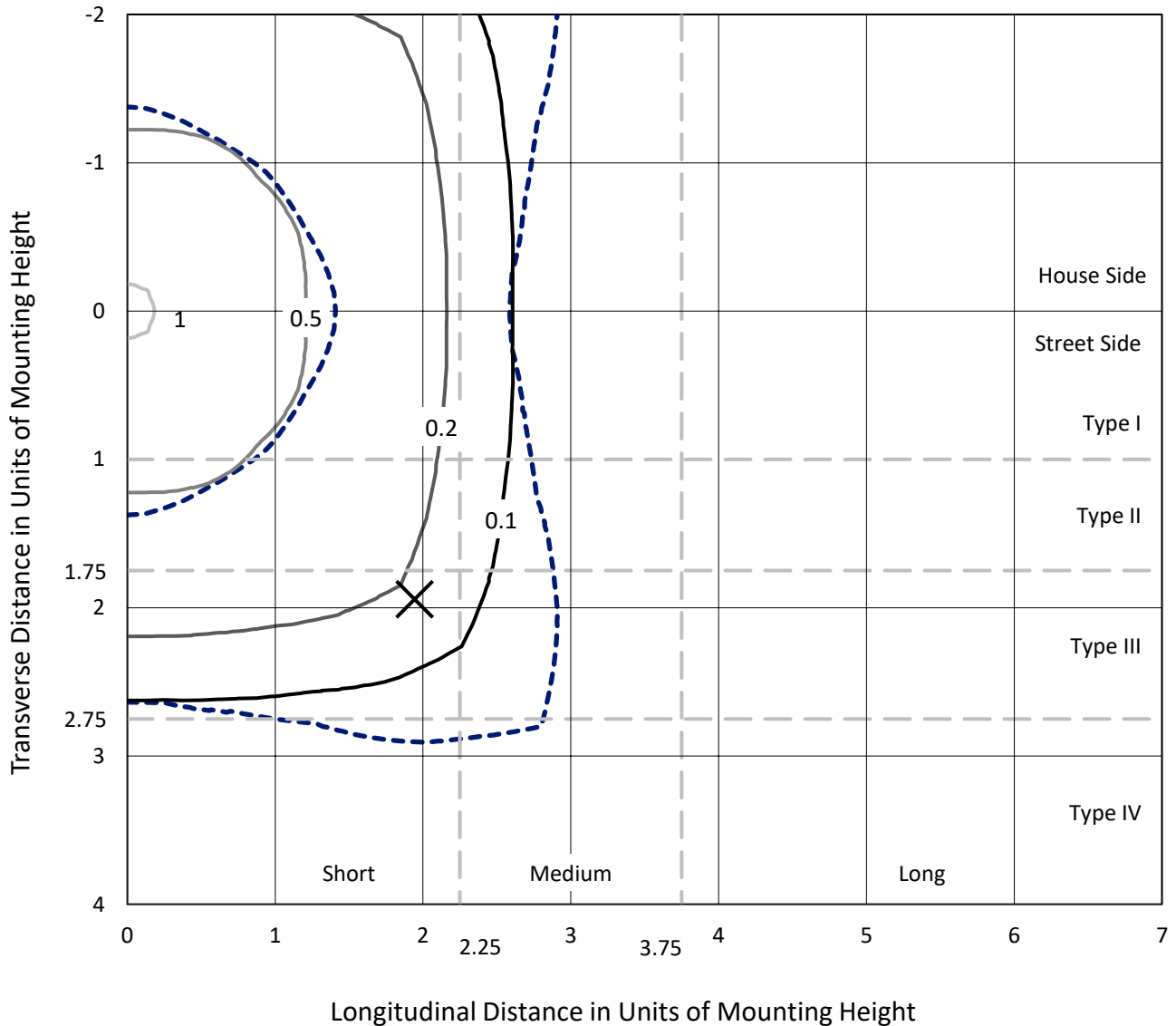
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

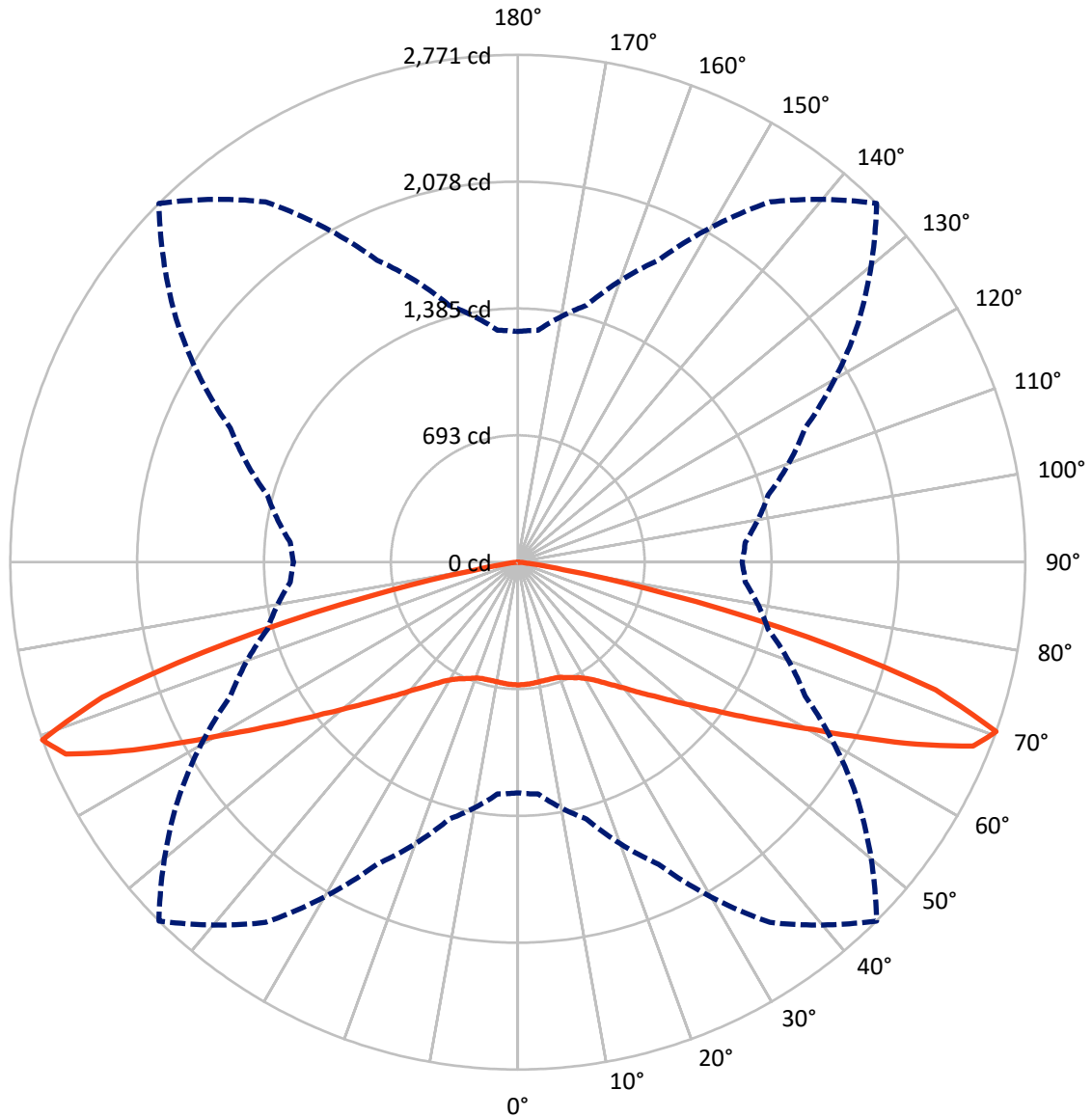
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	3017.5	0.0	3017.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3017.5	0.0	3017.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6035.0	0.0	6035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	1.1
10°-20°	186.5	3.1
20°-30°	319.0	5.3
30°-40°	506.2	8.4
40°-50°	816.7	13.5
50°-60°	1328.8	22.0
60°-70°	1926.2	31.9
70°-80°	854.4	14.2
80°-90°	33.7	0.6
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°	6035.0	100.0
0°-180°	6035.0	100.0

Coefficient of Utilization



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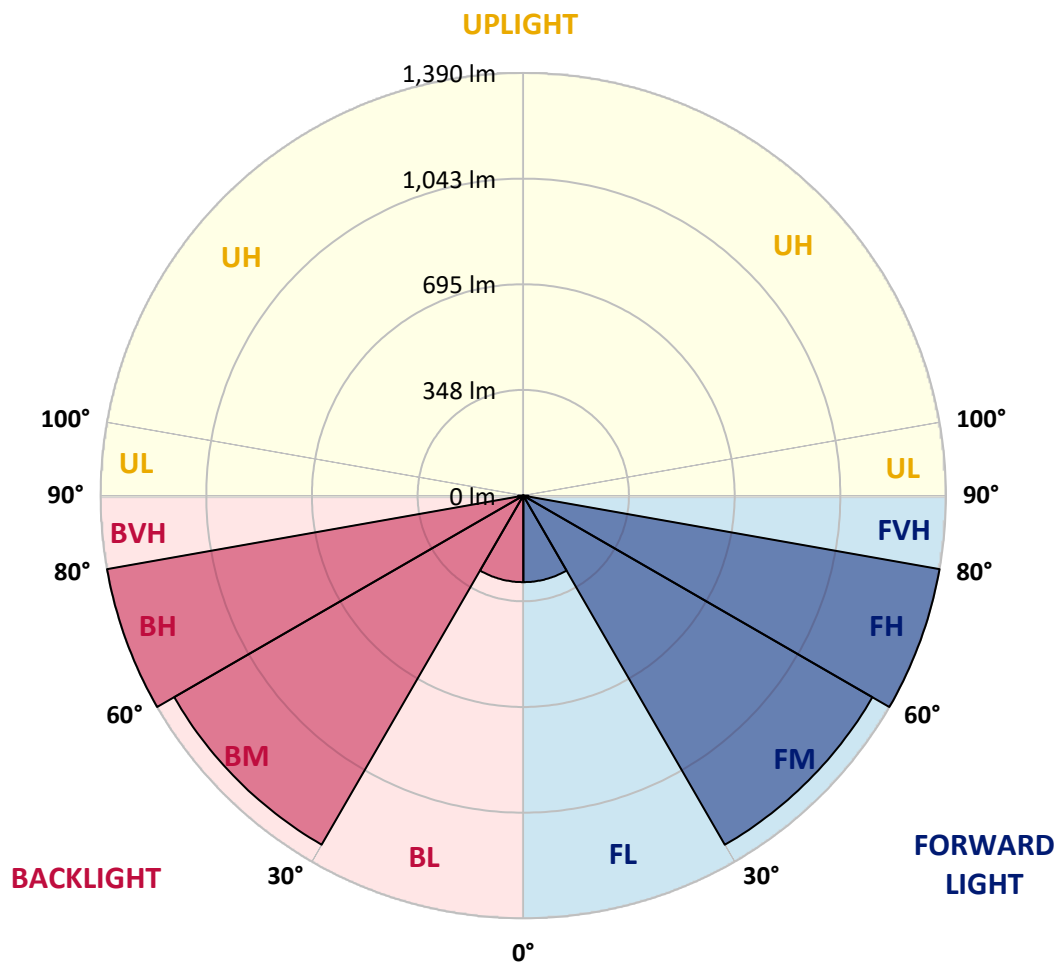
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.5	4.7			
FM (30°-60°)	1325.8	22.0			
FH (60°-80°)	1390.3	23.0			G1/1800
FVH (80°-90°)	16.9	0.3			G1/100
BL (0°-30°)	284.5	4.7	B1/500		
BM (30°-60°)	1325.8	22.0	B2/2500		
BH (60°-80°)	1390.3	23.0	B3/2500		G1/1800
BVH (80°-90°)	16.9	0.3			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°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	670.2	670.8	669.8	669.2	668.9	668.9	668.6	668.9	670.8	671.1	670.2
5°	668.2	668.9	668.6	667.9	667.6	667.6	667.3	667.0	668.6	669.2	668.9
7.5°	665.7	666.0	665.7	665.4	665.7	665.4	664.4	663.8	665.1	665.1	664.8
10°	661.3	661.9	661.6	661.9	662.5	662.5	661.3	660.0	660.3	659.7	659.7
12.5°	655.8	656.8	657.1	658.4	660.0	661.9	659.0	656.2	655.5	655.2	654.9
15°	652.3	653.3	654.6	655.8	658.7	662.8	658.7	654.3	653.0	651.7	651.1
17.5°	651.4	652.7	654.6	656.5	660.3	664.4	660.9	656.5	653.3	651.4	650.8
20°	653.9	654.9	657.8	661.3	666.7	670.8	667.3	662.5	657.8	654.9	653.9
22.5°	659.0	660.6	664.1	670.5	678.1	684.2	679.4	671.4	663.8	660.0	658.7
25°	670.2	671.4	675.6	684.2	693.1	698.8	693.7	684.5	674.0	668.9	667.3
27.5°	687.0	688.9	693.4	703.6	710.9	714.1	710.6	704.2	696.6	691.2	689.9
30°	710.9	713.1	719.8	730.6	735.4	737.3	735.7	731.5	726.1	720.4	719.1
32.5°	743.0	744.3	751.9	762.1	766.5	767.2	765.3	763.4	754.4	744.9	744.3
35°	778.9	781.2	790.4	802.5	806.6	806.9	803.1	800.2	789.7	782.1	782.1
37.5°	826.6	827.6	836.5	850.2	854.6	853.4	851.5	848.9	837.8	827.9	828.2
40°	882.6	884.5	892.2	908.1	908.1	906.5	907.8	905.8	894.7	885.2	885.5
42.5°	949.1	950.1	959.3	976.1	974.9	971.7	973.0	970.4	963.4	952.6	948.8
45°	1020.0	1023.8	1039.7	1056.0	1053.4	1043.2	1048.3	1047.7	1041.3	1025.1	1026.1
47.5°	1105.6	1111.9	1127.2	1146.6	1143.8	1127.9	1133.6	1137.4	1128.5	1110.7	1107.5
50°	1202.0	1206.1	1228.7	1246.8	1244.3	1227.4	1240.4	1241.1	1218.8	1193.7	1193.7
52.5°	1304.7	1308.8	1339.4	1367.7	1369.3	1344.8	1355.3	1354.6	1318.4	1285.3	1278.9
55°	1419.8	1421.7	1461.2	1502.8	1511.8	1487.9	1489.2	1476.4	1429.4	1390.9	1387.4
57.5°	1538.8	1545.8	1589.4	1643.4	1669.8	1655.2	1648.5	1614.5	1569.0	1524.8	1522.6
60°	1670.5	1670.8	1727.4	1791.3	1844.8	1854.6	1827.3	1781.8	1722.9	1664.4	1661.9
62.5°	1761.7	1775.4	1847.0	1955.1	2050.9	2106.2	2034.0	1938.6	1822.8	1728.4	1718.8
65°	1780.5	1789.7	1898.8	2082.0	2277.6	2396.9	2229.9	2027.0	1829.5	1703.5	1697.2
67.5°	1628.8	1638.7	1785.6	2066.8	2436.7	2681.3	2357.2	1984.4	1716.3	1560.4	1548.0
70°	1259.8	1271.0	1452.6	1819.3	2401.4	2770.6	2266.5	1730.9	1415.4	1247.1	1224.5
72.5°	669.8	710.9	866.1	1248.7	1949.1	2385.5	1858.4	1263.0	912.8	746.2	716.3
75°	244.6	249.7	336.2	553.7	1133.9	1635.8	1177.5	602.4	346.4	267.5	253.8
77.5°	101.1	100.8	110.7	167.3	411.9	837.8	459.6	176.8	110.4	102.1	100.8
80°	59.8	59.8	65.8	69.7	108.5	252.9	121.2	78.9	66.2	60.4	61.4
82.5°	26.7	28.3	41.7	43.9	52.5	69.3	58.5	50.3	43.3	29.9	27.0
85°	14.6	12.7	21.9	22.9	25.1	25.8	27.7	27.4	25.1	14.6	14.9
87.5°	2.9	3.5	6.4	4.8	5.4	4.8	6.4	8.9	9.2	5.1	4.1
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)