

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: P450804

Luminaire Tested: **GALN-SA1C-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5395 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

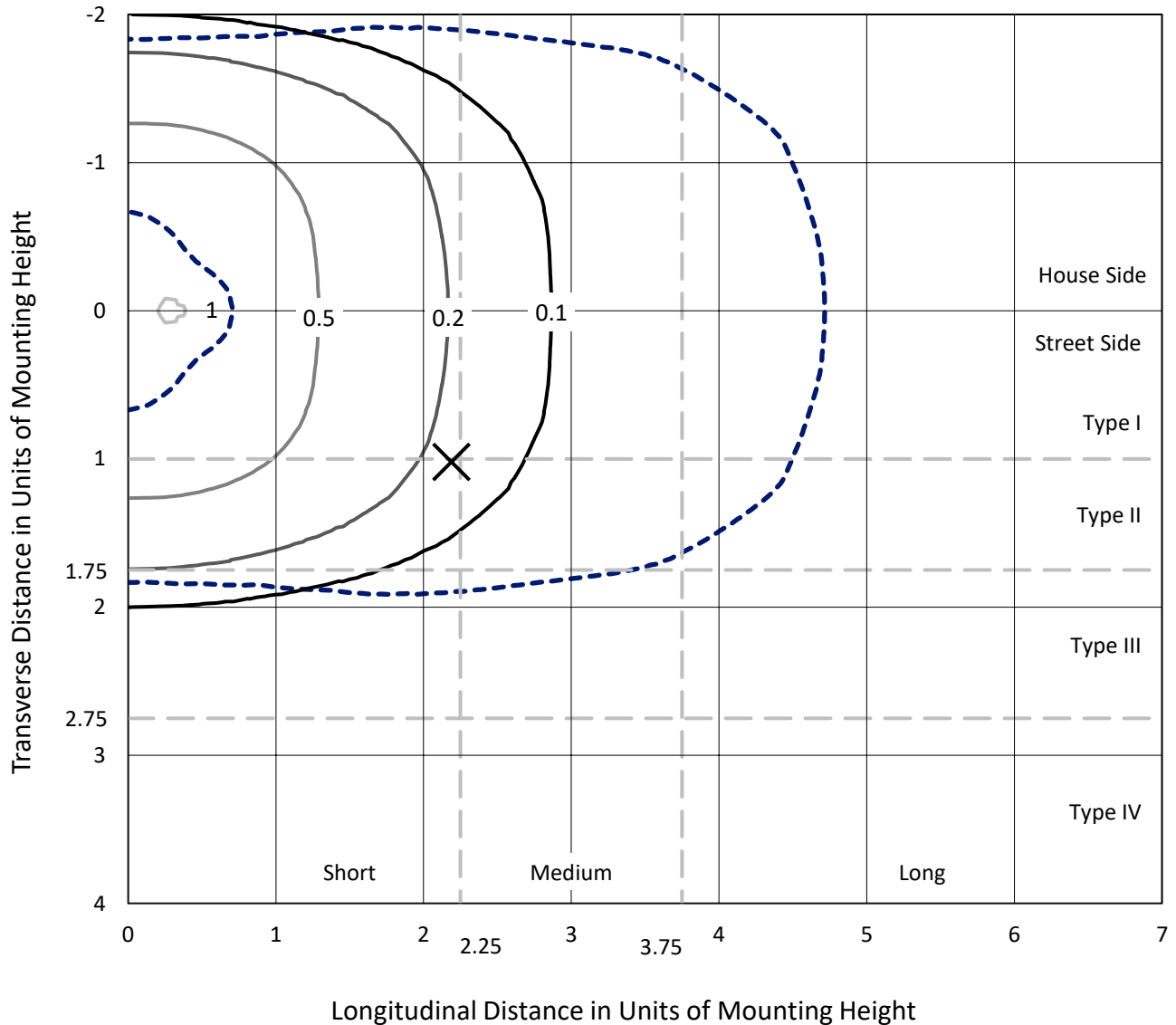
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

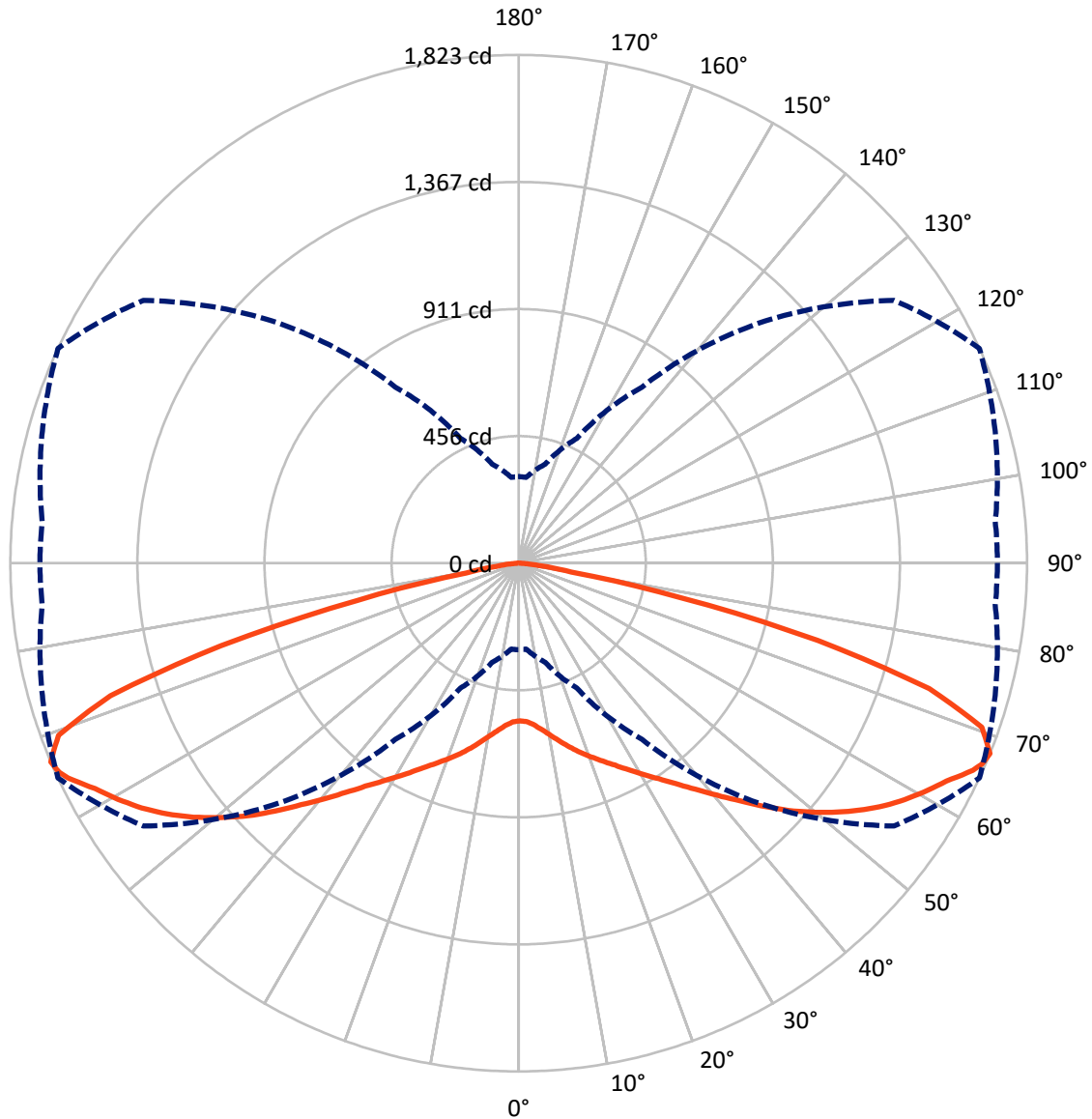
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2697.5	0.0	2697.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2697.5	0.0	2697.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5395.0	0.0	5395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	1.0
10°-20°	186.5	3.5
20°-30°	364.9	6.8
30°-40°	620.6	11.5
40°-50°	982.2	18.2
50°-60°	1302.4	24.1
60°-70°	1228.6	22.8
70°-80°	607.3	11.3
80°-90°	46.8	0.9
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°	5395.0	100.0
0°-180°	5395.0	100.0

Coefficient of Utilization



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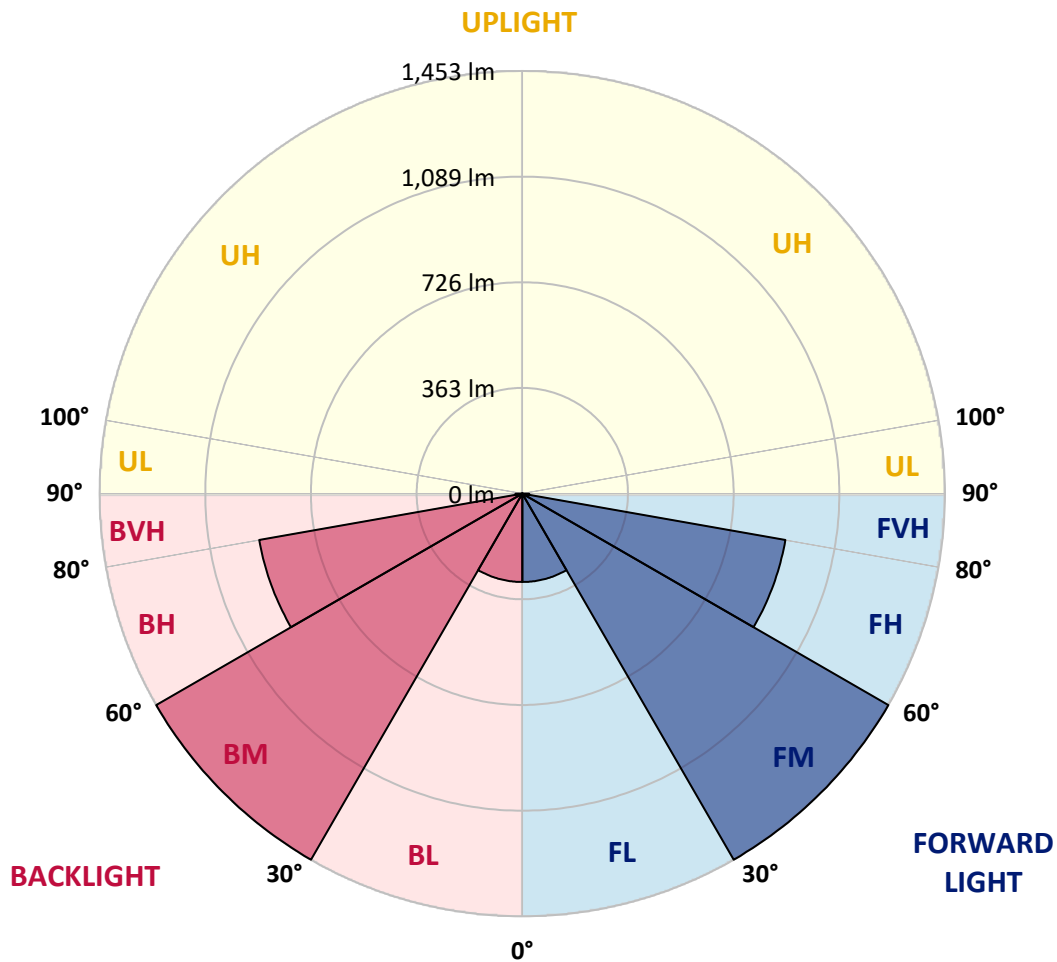
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.6	5.6			
FM (30°-60°)	1452.6	26.9			
FH (60°-80°)	917.9	17.0			G1/1800
FVH (80°-90°)	23.4	0.4			G1/100
BL (0°-30°)	303.6	5.6	B1/500		
BM (30°-60°)	1452.6	26.9	B2/2500		
BH (60°-80°)	917.9	17.0	B2/1000		G2/1000
BVH (80°-90°)	23.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1
2.5°	562.2	562.8	563.3	564.2	565.4	567.1	568.3	569.1	571.4	571.7	571.4
5°	560.2	560.7	562.2	564.8	568.5	573.7	577.8	582.7	586.5	589.1	588.5
7.5°	559.9	561.0	563.3	568.8	576.1	585.0	594.3	602.7	609.9	615.7	614.8
10°	564.5	565.9	569.7	577.8	589.1	602.1	615.1	627.5	637.9	645.4	648.0
12.5°	572.3	573.5	580.4	592.5	608.7	624.9	639.7	655.0	669.4	682.1	682.1
15°	585.9	587.9	596.6	614.2	634.2	652.9	668.0	684.2	699.8	714.2	718.6
17.5°	604.7	607.6	620.6	643.1	668.6	685.9	700.1	713.4	726.9	740.8	742.8
20°	630.4	633.3	650.6	677.8	707.9	728.7	738.2	741.4	748.0	761.3	763.1
22.5°	665.4	668.3	687.6	718.3	751.8	774.3	778.4	770.9	769.1	779.5	780.7
25°	705.0	707.6	729.8	762.8	797.5	822.0	820.9	802.4	792.0	798.3	800.1
27.5°	749.5	753.2	775.8	809.9	847.5	869.2	865.7	838.8	816.5	815.4	816.0
30°	806.4	810.5	831.9	864.5	901.5	921.5	914.2	878.1	843.7	832.2	832.2
32.5°	866.6	876.7	898.3	932.5	961.4	975.8	964.8	921.5	875.8	859.6	858.7
35°	944.9	950.4	971.8	1005.0	1026.7	1038.0	1016.9	970.3	917.7	898.6	896.0
37.5°	1021.5	1026.1	1051.0	1082.8	1109.1	1108.5	1079.9	1028.4	969.7	948.3	946.6
40°	1099.8	1104.7	1133.0	1162.2	1188.5	1186.2	1151.5	1094.0	1031.6	1007.6	1012.2
42.5°	1167.7	1173.2	1205.3	1246.9	1270.6	1270.1	1229.9	1165.1	1100.1	1078.7	1082.8
45°	1229.6	1234.5	1271.8	1319.5	1354.2	1358.5	1314.6	1246.1	1179.3	1151.8	1153.0
47.5°	1273.2	1282.5	1321.5	1376.1	1423.2	1438.6	1395.5	1328.4	1251.6	1222.9	1224.7
50°	1306.5	1312.3	1354.7	1416.9	1476.4	1508.2	1473.5	1404.7	1323.8	1293.5	1297.5
52.5°	1310.5	1317.5	1363.7	1435.4	1511.7	1560.0	1542.9	1479.3	1397.5	1366.3	1375.0
55°	1277.6	1281.6	1336.8	1423.8	1525.6	1598.4	1602.7	1548.7	1467.8	1444.1	1449.8
57.5°	1183.6	1194.0	1264.0	1369.8	1506.5	1618.9	1647.5	1611.7	1538.9	1515.5	1524.7
60°	1029.6	1040.0	1110.2	1244.3	1434.5	1609.4	1684.5	1667.5	1603.3	1584.5	1589.4
62.5°	806.7	805.9	892.9	1057.3	1291.4	1562.6	1712.0	1721.2	1666.9	1643.2	1650.7
65°	522.9	525.5	609.6	786.8	1075.5	1443.5	1718.1	1789.8	1729.3	1693.5	1699.0
66°	420.6	428.4	499.8	663.1	965.4	1365.4	1699.9	1810.0	1748.4	1705.1	1707.7
67.5°	310.4	309.0	367.7	493.7	770.9	1217.2	1642.9	1822.7	1770.1	1715.5	1716.6
70°	177.2	176.9	197.7	271.1	453.2	857.0	1384.8	1761.7	1814.0	1753.0	1749.9
72.5°	129.5	128.6	131.5	149.7	221.1	432.7	955.3	1539.7	1791.5	1747.0	1738.0
75°	108.7	108.1	107.5	109.8	124.0	196.0	507.0	1107.6	1554.5	1639.7	1630.5
77.5°	88.7	88.7	89.0	88.4	89.0	103.2	210.1	593.7	946.6	1056.7	1082.5
80°	69.4	69.1	74.0	72.0	67.3	66.2	93.1	191.1	314.2	312.5	257.8
82.5°	51.2	47.7	56.4	54.9	49.7	42.2	54.3	81.5	104.9	68.2	50.6
85°	32.4	32.1	39.9	36.4	30.3	19.9	26.0	35.0	43.4	26.3	21.4
87.5°	5.8	5.5	12.7	9.2	9.2	5.8	7.2	9.5	14.2	9.8	7.2
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)