

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: P451036

Luminaire Tested: **GALN-SA1D-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451036
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-SA1D-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5937 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

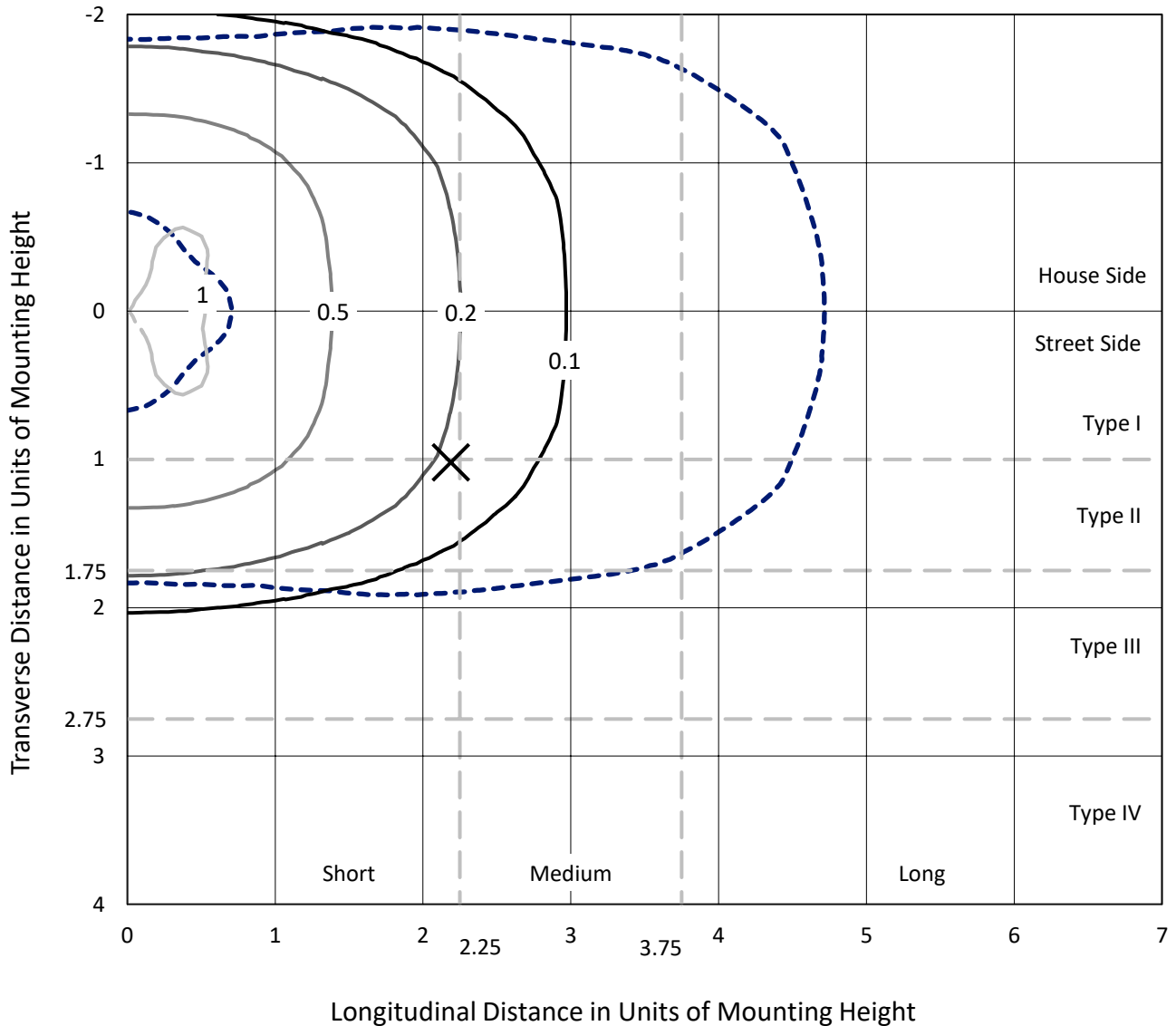
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

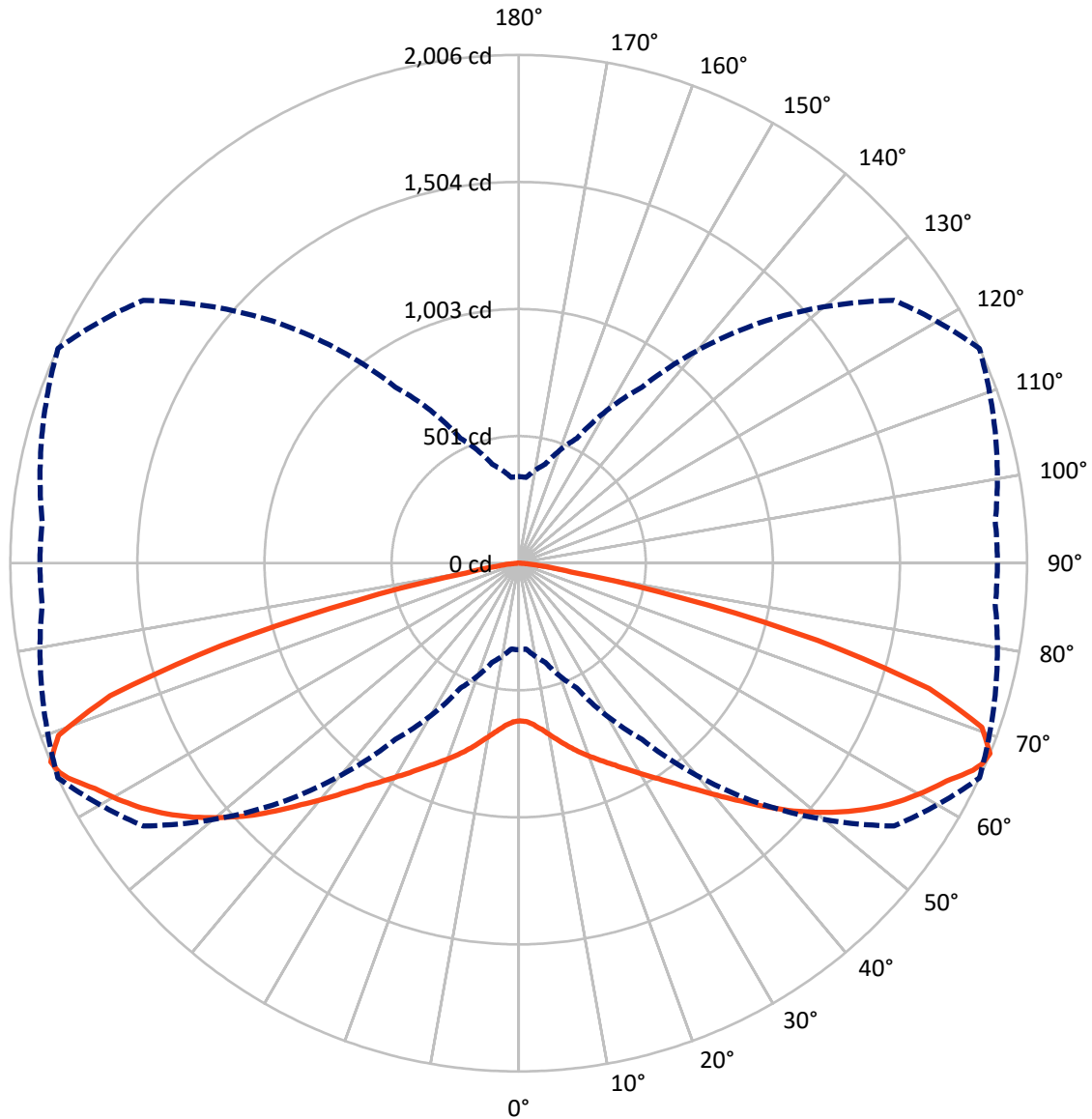
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	2968.5	0.0	2968.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2968.5	0.0	2968.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5937.0	0.0	5937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.0
10°-20°	205.3	3.5
20°-30°	401.5	6.8
30°-40°	682.9	11.5
40°-50°	1080.9	18.2
50°-60°	1433.2	24.1
60°-70°	1352.0	22.8
70°-80°	668.4	11.3
80°-90°	51.5	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°	5937.0	100.0
0°-180°	5937.0	100.0

Coefficient of Utilization



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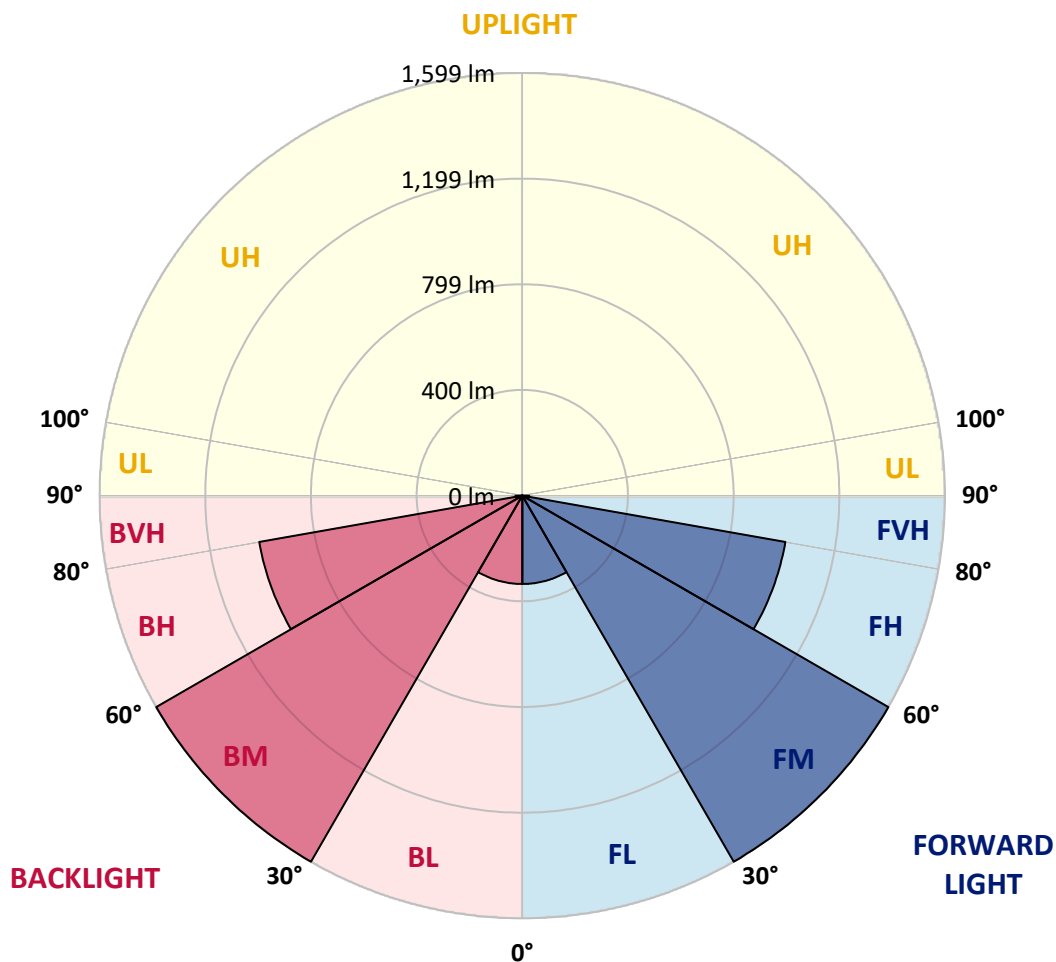
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.1	5.6			
FM	(30°-60°)	1598.5	26.9			
FH	(60°-80°)	1010.2	17.0			G1/1800
FVH	(80°-90°)	25.8	0.4			G1/100
BL	(0°-30°)	334.1	5.6	B1/500		
BM	(30°-60°)	1598.5	26.9	B2/2500		
BH	(60°-80°)	1010.2	17.0	B3/2500		G3/2500
BVH	(80°-90°)	25.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8
2.5°	618.7	619.3	619.9	620.9	622.2	624.1	625.3	626.3	628.8	629.2	628.8
5°	616.4	617.1	618.7	621.5	625.7	631.4	635.8	641.3	645.4	648.2	647.6
7.5°	616.1	617.4	619.9	626.0	633.9	643.8	654.0	663.2	671.2	677.5	676.6
10°	621.2	622.8	626.9	635.8	648.2	662.6	676.9	690.6	702.0	710.3	713.1
12.5°	629.8	631.1	638.7	652.1	669.9	687.7	703.9	720.8	736.7	750.7	750.7
15°	644.8	647.0	656.5	675.9	697.9	718.5	735.1	752.9	770.1	786.0	790.7
17.5°	665.4	668.6	682.9	707.7	735.7	754.8	770.4	785.0	800.0	815.2	817.5
20°	693.7	696.9	716.0	745.9	779.0	801.9	812.4	815.9	823.2	837.8	839.7
22.5°	732.2	735.4	756.7	790.4	827.3	852.1	856.6	848.3	846.4	857.9	859.1
25°	775.8	778.7	803.2	839.4	877.6	904.6	903.4	883.0	871.5	878.5	880.4
27.5°	824.8	828.9	853.7	891.3	932.6	956.5	952.7	923.1	898.6	897.3	897.9
30°	887.4	891.9	915.4	951.4	992.1	1014.0	1006.1	966.3	928.5	915.8	915.8
32.5°	953.6	964.7	988.6	1026.1	1057.9	1073.8	1061.8	1014.0	963.8	946.0	945.0
35°	1039.8	1045.9	1069.4	1106.0	1129.8	1142.2	1119.0	1067.8	1009.9	988.9	986.1
37.5°	1124.1	1129.2	1156.5	1191.5	1220.5	1219.8	1188.4	1131.7	1067.2	1043.6	1041.7
40°	1210.3	1215.7	1246.9	1279.0	1307.9	1305.4	1267.2	1203.9	1135.2	1108.8	1113.9
42.5°	1285.0	1291.1	1326.4	1372.2	1398.3	1397.6	1353.4	1282.2	1210.6	1187.1	1191.5
45°	1353.1	1358.5	1399.6	1452.0	1490.2	1495.0	1446.6	1371.2	1297.8	1267.6	1268.8
47.5°	1401.1	1411.3	1454.3	1514.4	1566.2	1583.1	1535.7	1461.9	1377.3	1345.8	1347.7
50°	1437.7	1444.1	1490.8	1559.2	1624.8	1659.7	1621.6	1545.9	1456.8	1423.4	1427.9
52.5°	1442.2	1449.8	1500.7	1579.6	1663.6	1716.7	1697.9	1627.9	1537.9	1503.6	1513.1
55°	1405.9	1410.4	1471.1	1566.9	1678.8	1759.0	1763.8	1704.3	1615.2	1589.1	1595.5
57.5°	1302.5	1314.0	1391.0	1507.4	1657.8	1781.6	1813.1	1773.6	1693.5	1667.7	1677.9
60°	1133.0	1144.5	1221.7	1369.3	1578.6	1771.1	1853.8	1835.0	1764.4	1743.7	1749.1
62.5°	887.8	886.8	982.6	1163.5	1421.2	1719.5	1884.0	1894.2	1834.4	1808.3	1816.6
65°	575.4	578.3	670.8	865.8	1183.6	1588.5	1890.7	1969.6	1903.1	1863.6	1869.7
66°	462.8	471.4	550.0	729.7	1062.4	1502.6	1870.6	1991.8	1924.1	1876.4	1879.2
67.5°	341.6	340.0	404.6	543.3	848.3	1339.4	1808.0	2005.8	1947.9	1887.8	1889.1
70°	195.0	194.7	217.6	298.4	498.8	943.1	1523.9	1938.7	1996.3	1929.2	1925.7
72.5°	142.5	141.5	144.7	164.8	243.3	476.2	1051.3	1694.4	1971.5	1922.5	1912.6
75°	119.6	119.0	118.3	120.9	136.5	215.7	557.9	1218.9	1710.6	1804.5	1794.3
77.5°	97.7	97.7	98.0	97.3	98.0	113.6	231.2	653.3	1041.7	1162.9	1191.2
80°	76.3	76.0	81.4	79.2	74.1	72.8	102.4	210.3	345.8	343.8	283.7
82.5°	56.3	52.5	62.0	60.4	54.7	46.4	59.8	89.7	115.5	75.1	55.7
85°	35.6	35.3	43.9	40.1	33.4	21.9	28.6	38.5	47.7	28.9	23.5
87.5°	6.4	6.0	14.0	10.2	10.2	6.4	8.0	10.5	15.6	10.8	8.0
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)