

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: P450891

Luminaire Tested: **GALN-SA1D-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450891
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-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 6754 lumens
Efficiency: N/A
Efficacy: 103.9 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

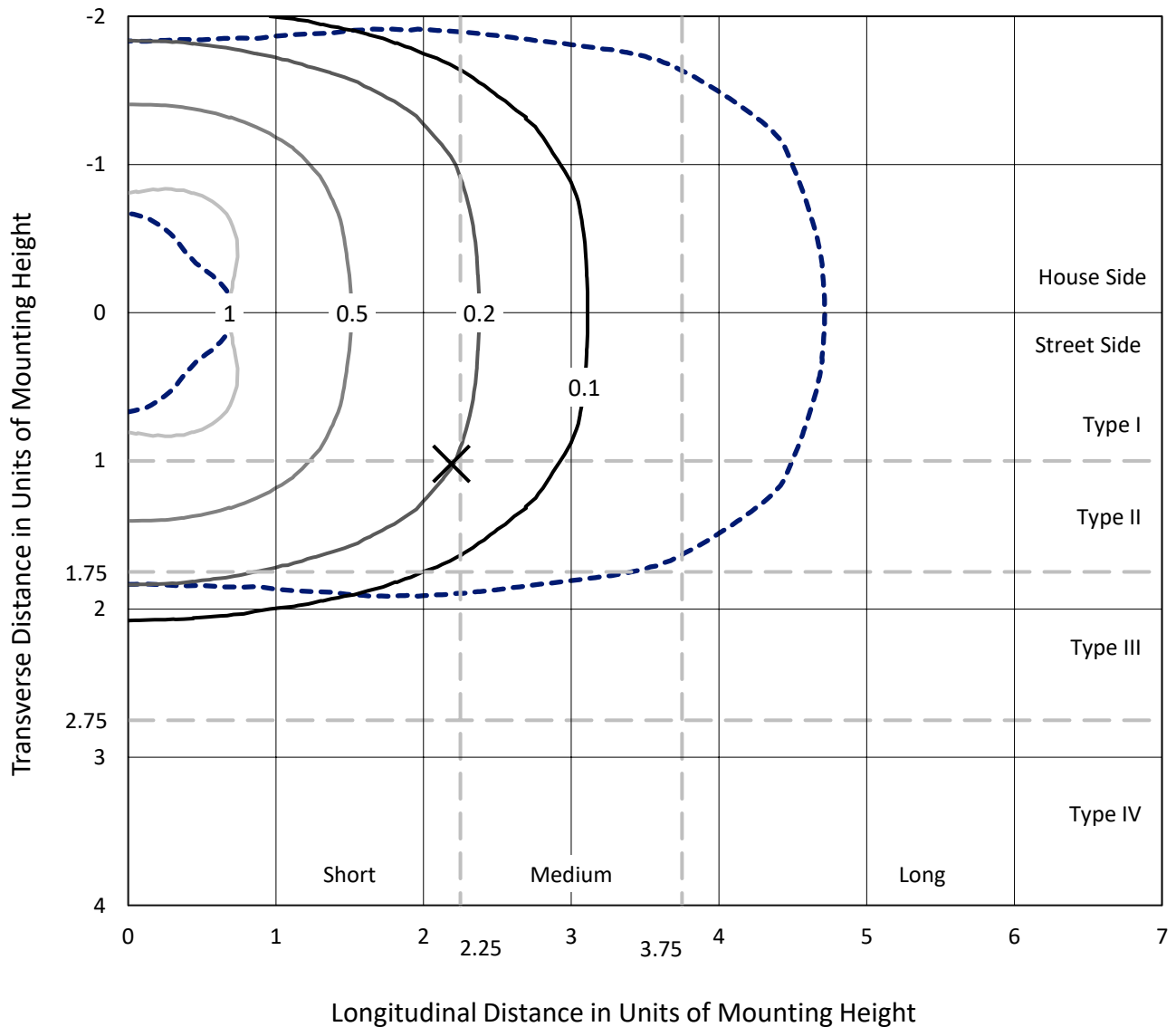
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

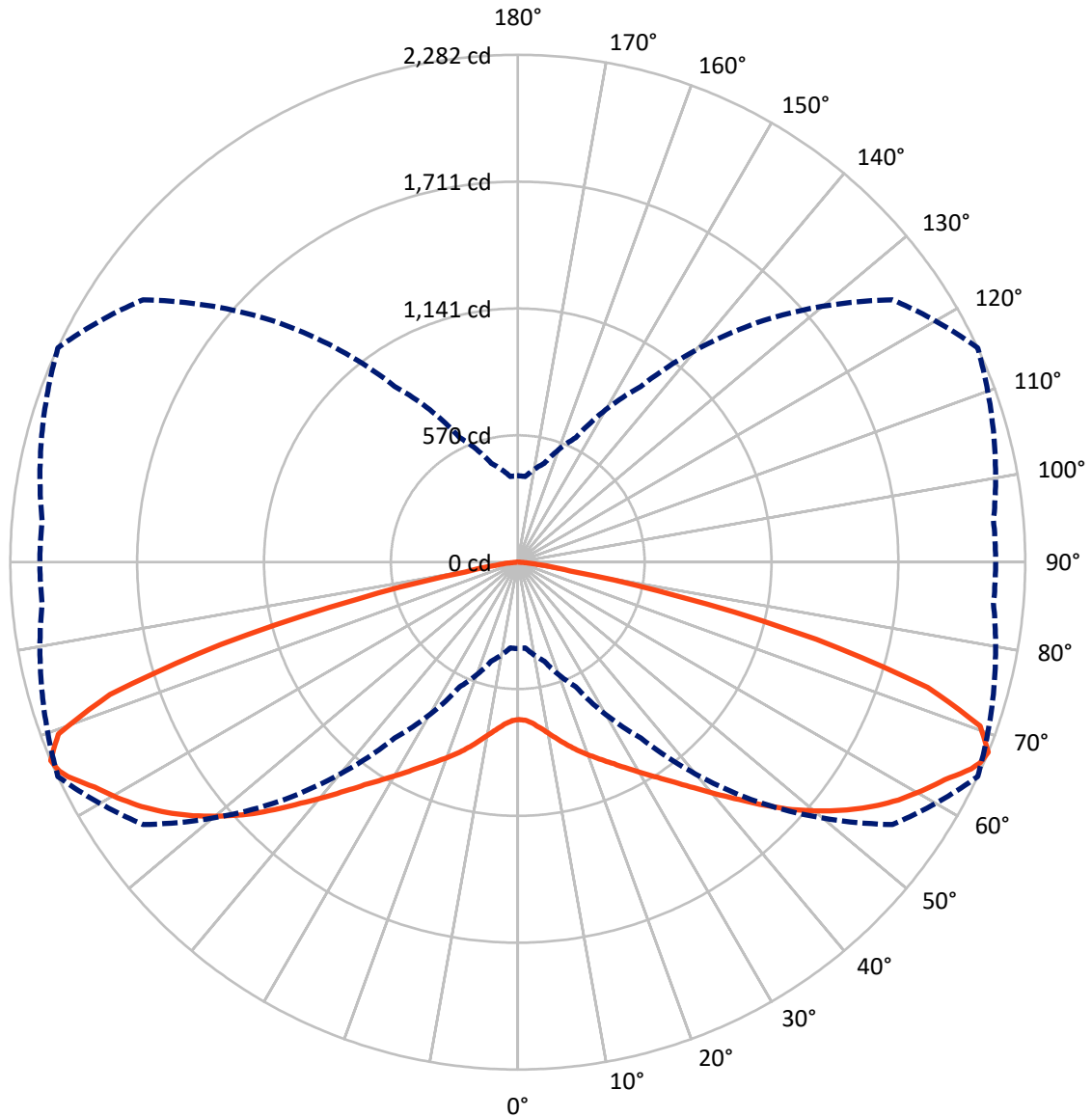
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	3377.0	0.0	3377.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3377.0	0.0	3377.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6754.0	0.0	6754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	1.0
10°-20°	233.5	3.5
20°-30°	456.8	6.8
30°-40°	776.9	11.5
40°-50°	1229.6	18.2
50°-60°	1630.5	24.1
60°-70°	1538.0	22.8
70°-80°	760.3	11.3
80°-90°	58.6	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°	6754.0	100.0
0°-180°	6754.0	100.0

Coefficient of Utilization



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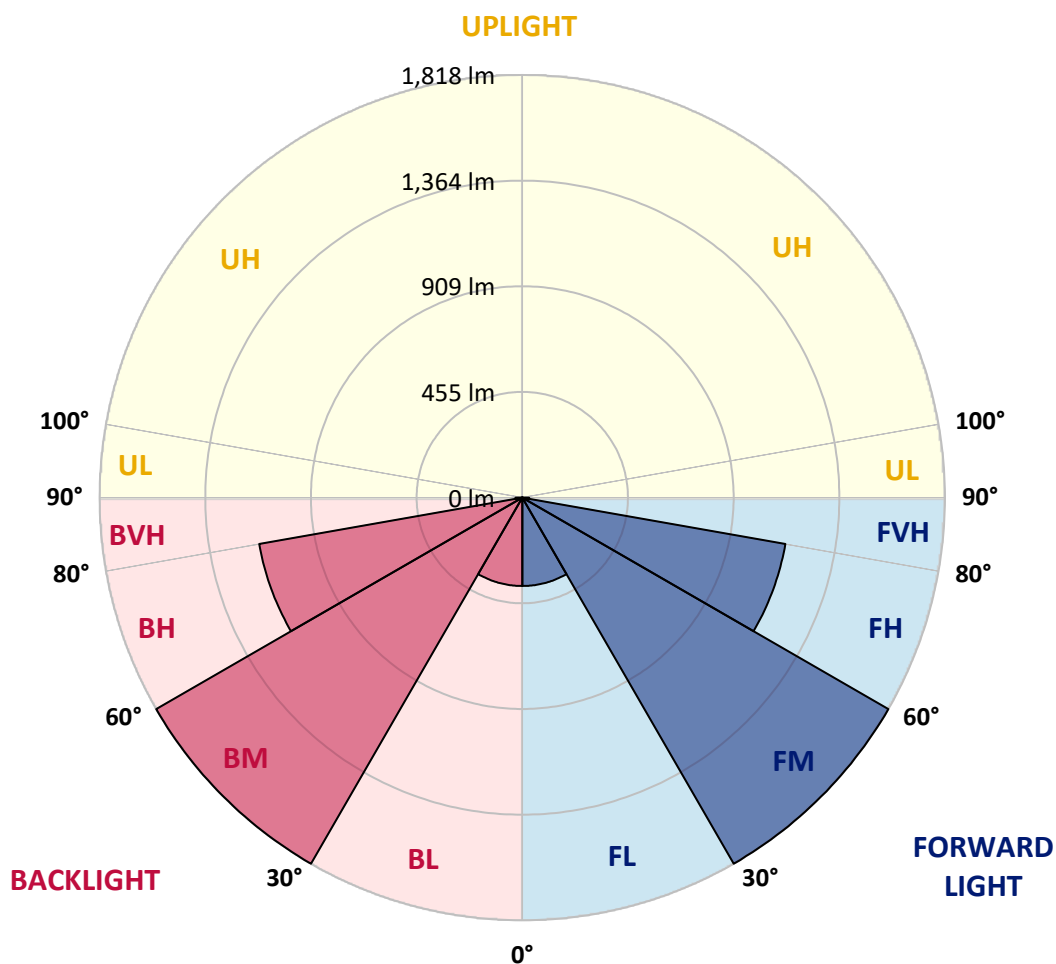
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.0	5.6			
FM (30°-60°)	1818.5	26.9			
FH (60°-80°)	1149.2	17.0			G1/1800
FVH (80°-90°)	29.3	0.4			G1/100
BL (0°-30°)	380.0	5.6	B1/500		
BM (30°-60°)	1818.5	26.9	B2/2500		
BH (60°-80°)	1149.2	17.0	B3/2500		G3/2500
BVH (80°-90°)	29.3	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°	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
2.5°	703.8	704.5	705.3	706.3	707.8	710.0	711.4	712.5	715.4	715.7	715.4
5°	701.3	702.0	703.8	707.1	711.8	718.3	723.3	729.5	734.2	737.5	736.7
7.5°	700.9	702.4	705.3	712.1	721.2	732.4	744.0	754.5	763.5	770.7	769.7
10°	706.7	708.5	713.2	723.3	737.5	753.7	770.0	785.6	798.6	808.0	811.3
12.5°	716.5	717.9	726.6	741.8	762.1	782.3	800.8	820.0	838.1	854.0	854.0
15°	733.5	736.0	746.9	768.9	793.9	817.4	836.2	856.5	876.0	894.1	899.6
17.5°	757.0	760.6	776.9	805.1	837.0	858.7	876.4	893.1	910.1	927.4	930.0
20°	789.2	792.8	814.5	848.5	886.2	912.2	924.2	928.2	936.5	953.1	955.3
22.5°	833.0	836.6	860.8	899.2	941.2	969.4	974.5	965.1	962.9	975.9	977.4
25°	882.6	885.8	913.7	954.9	998.4	1029.1	1027.7	1004.5	991.5	999.4	1001.6
27.5°	938.3	943.0	971.2	1013.9	1061.0	1088.1	1083.7	1050.1	1022.2	1020.8	1021.5
30°	1009.6	1014.6	1041.4	1082.3	1128.6	1153.6	1144.5	1099.3	1056.2	1041.8	1041.8
32.5°	1084.8	1097.5	1124.6	1167.3	1203.5	1221.6	1207.9	1153.6	1096.4	1076.1	1075.1
35°	1182.9	1189.8	1216.5	1258.2	1285.3	1299.4	1273.0	1214.7	1148.9	1125.0	1121.7
37.5°	1278.8	1284.6	1315.7	1355.5	1388.4	1387.7	1351.9	1287.5	1214.0	1187.2	1185.1
40°	1376.8	1383.0	1418.5	1455.0	1487.9	1485.0	1441.6	1369.6	1291.5	1261.4	1267.2
42.5°	1461.9	1468.8	1508.9	1561.0	1590.7	1590.0	1539.7	1458.6	1377.2	1350.4	1355.5
45°	1539.3	1545.5	1592.2	1651.9	1695.3	1700.7	1645.7	1559.9	1476.4	1442.0	1443.4
47.5°	1594.0	1605.5	1654.4	1722.8	1781.8	1800.9	1747.0	1663.1	1566.8	1531.0	1533.2
50°	1635.6	1642.8	1696.0	1773.8	1848.3	1888.1	1844.7	1758.6	1657.3	1619.3	1624.4
52.5°	1640.6	1649.3	1707.2	1797.0	1892.5	1952.9	1931.6	1852.0	1749.6	1710.5	1721.3
55°	1599.4	1604.5	1673.6	1782.5	1909.9	2001.0	2006.5	1938.8	1837.5	1807.8	1815.1
57.5°	1481.8	1494.8	1582.4	1714.8	1886.0	2026.7	2062.6	2017.7	1926.5	1897.2	1908.8
60°	1288.9	1301.9	1389.9	1557.8	1795.9	2014.8	2108.9	2087.5	2007.2	1983.7	1989.8
62.5°	1009.9	1008.8	1117.8	1323.7	1616.8	1956.2	2143.3	2154.8	2086.8	2057.1	2066.5
65°	654.6	657.8	763.1	985.0	1346.5	1807.1	2150.9	2240.6	2165.0	2120.1	2127.0
66°	526.5	536.3	625.6	830.1	1208.6	1709.4	2128.1	2265.9	2188.8	2134.6	2137.8
67.5°	388.6	386.8	460.3	618.0	965.1	1523.8	2056.8	2281.8	2216.0	2147.6	2149.0
70°	221.8	221.5	247.5	339.4	567.4	1072.9	1733.6	2205.5	2271.0	2194.6	2190.7
72.5°	162.1	161.0	164.6	187.4	276.8	541.7	1195.9	1927.6	2242.8	2187.0	2175.8
75°	136.1	135.3	134.6	137.5	155.2	245.3	634.7	1386.6	1946.0	2052.8	2041.2
77.5°	111.1	111.1	111.5	110.7	111.5	129.2	263.1	743.2	1185.1	1322.9	1355.1
80°	86.8	86.5	92.6	90.1	84.3	82.9	116.5	239.2	393.3	391.2	322.8
82.5°	64.0	59.7	70.6	68.8	62.2	52.8	68.0	102.0	131.4	85.4	63.3
85°	40.5	40.2	49.9	45.6	38.0	25.0	32.6	43.8	54.3	32.9	26.8
87.5°	7.2	6.9	15.9	11.6	11.6	7.2	9.0	11.9	17.7	12.3	9.0
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)