

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: P451065

Luminaire Tested: **GALN-SA1D-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451065
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-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6418 lumens
Efficiency: N/A
Efficacy: 98.7 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

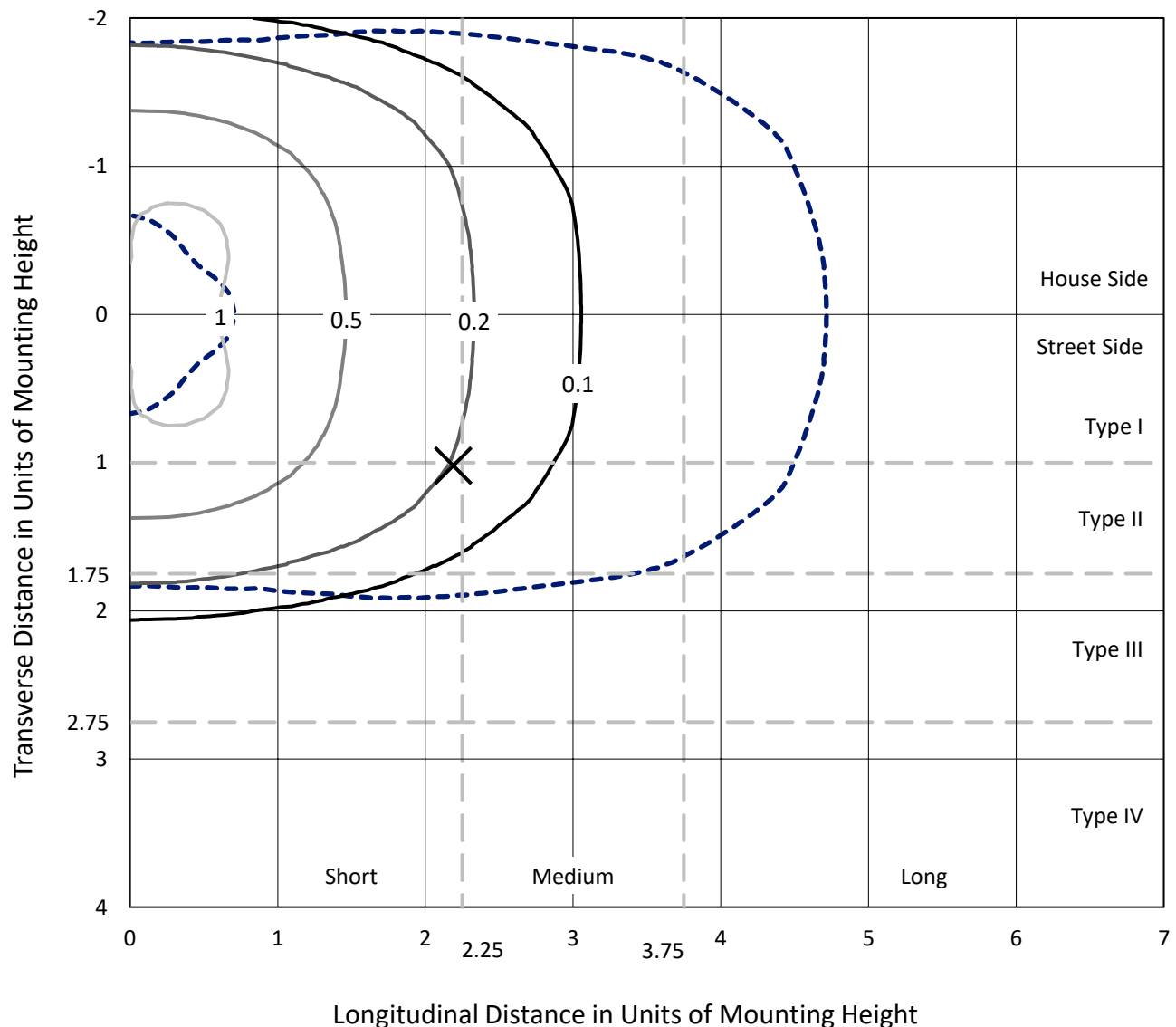


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Iso-Footcandle Lines of Horizontal Illumination

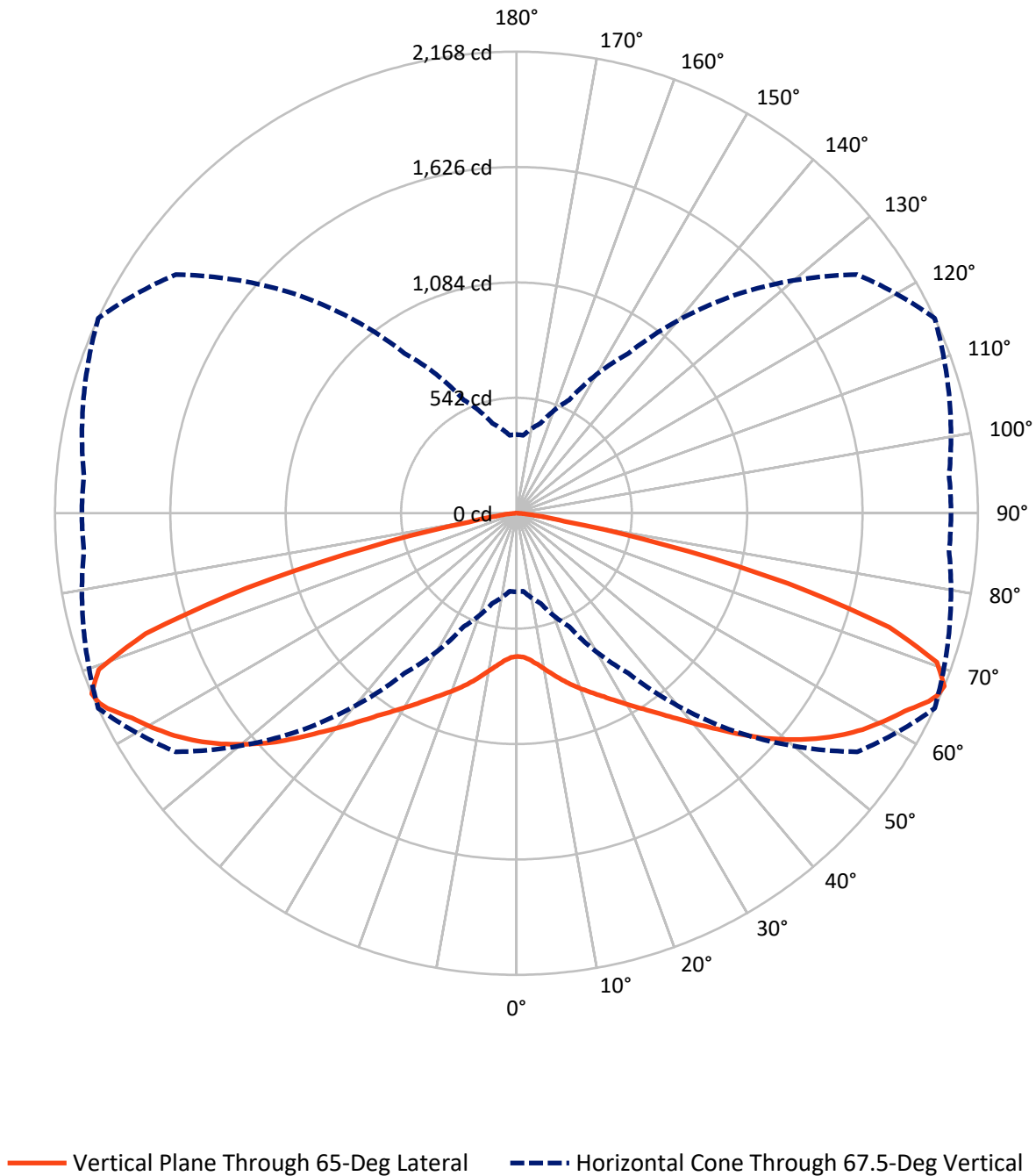
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3209.0	0.0	3209.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3209.0	0.0	3209.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6418.0	0.0	6418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	1.0
10°-20°	221.9	3.5
20°-30°	434.1	6.8
30°-40°	738.3	11.5
40°-50°	1168.5	18.2
50°-60°	1549.3	24.1
60°-70°	1461.5	22.8
70°-80°	722.5	11.3
80°-90°	55.7	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°	6418.0	100.0
0°-180°	6418.0	100.0

Coefficient of Utilization



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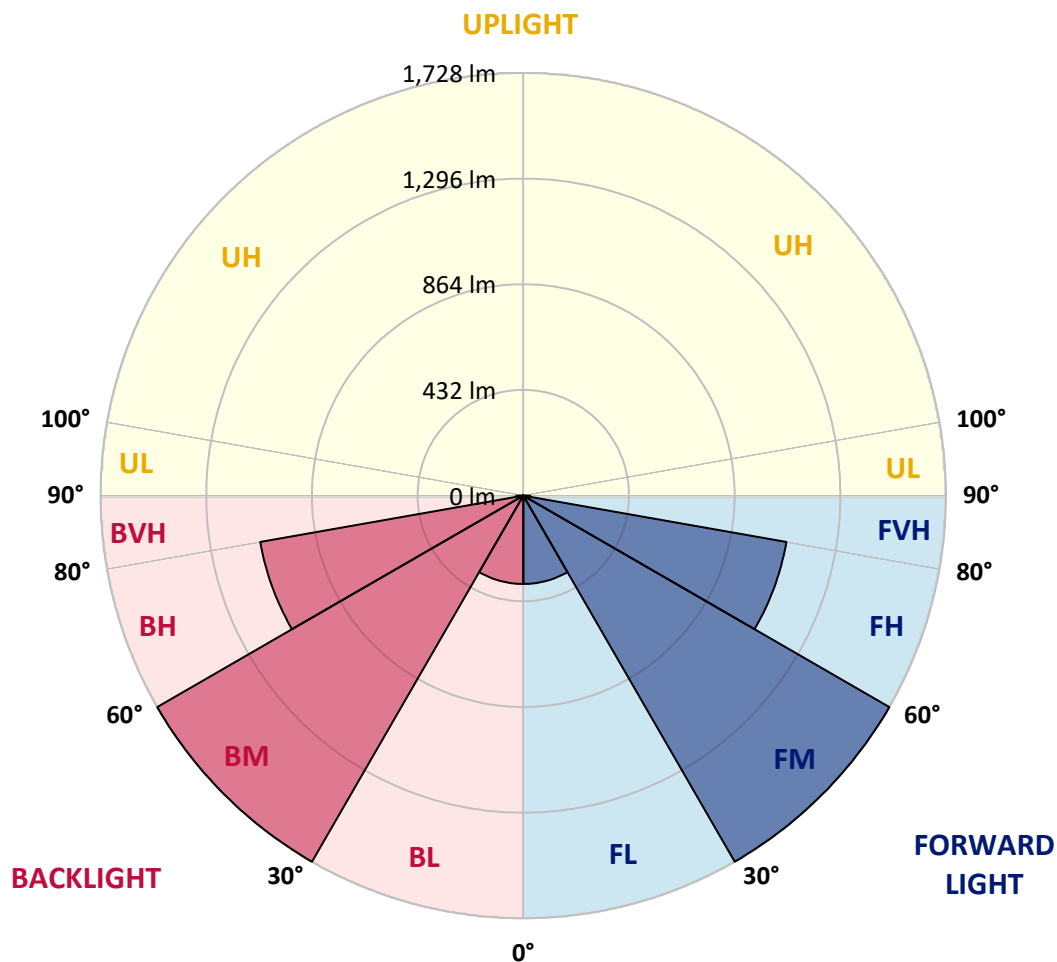
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.1	5.6			
FM	(30°-60°)	1728.0	26.9			
FH	(60°-80°)	1092.0	17.0			G1/1800
FVH	(80°-90°)	27.8	0.4			G1/100
BL	(0°-30°)	361.1	5.6	B1/500		
BM	(30°-60°)	1728.0	26.9	B2/2500		
BH	(60°-80°)	1092.0	17.0	B3/2500		G3/2500
BVH	(80°-90°)	27.8	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°	672.2	672.2	672.2	672.2	672.2	672.2	672.2	672.2	672.2	672.2	672.2
2.5°	668.8	669.5	670.2	671.2	672.6	674.6	676.0	677.0	679.8	680.1	679.8
5°	666.4	667.1	668.8	671.9	676.4	682.5	687.4	693.2	697.7	700.8	700.1
7.5°	666.0	667.4	670.2	676.7	685.3	696.0	707.0	716.9	725.5	732.4	731.4
10°	671.5	673.3	677.7	687.4	700.8	716.2	731.7	746.5	758.9	767.8	770.9
12.5°	680.8	682.2	690.5	704.9	724.2	743.4	760.9	779.2	796.4	811.5	811.5
15°	697.0	699.4	709.7	730.7	754.4	776.8	794.6	813.9	832.5	849.7	854.8
17.5°	719.3	722.8	738.2	765.1	795.3	816.0	832.8	848.6	864.8	881.3	883.7
20°	749.9	753.4	774.0	806.3	842.1	866.8	878.2	882.0	889.9	905.7	907.8
22.5°	791.5	795.0	818.0	854.5	894.4	921.2	926.0	917.1	915.0	927.4	928.7
25°	838.7	841.7	868.2	907.4	948.7	977.9	976.5	954.5	942.2	949.7	951.8
27.5°	891.6	896.1	922.9	963.5	1008.2	1034.0	1029.8	997.9	971.4	970.0	970.7
30°	959.3	964.2	989.6	1028.5	1072.5	1096.2	1087.6	1044.6	1003.7	989.9	989.9
32.5°	1030.9	1042.9	1068.7	1109.3	1143.6	1160.8	1147.8	1096.2	1041.9	1022.6	1021.6
35°	1124.0	1130.6	1156.0	1195.6	1221.4	1234.8	1209.7	1154.3	1091.7	1069.0	1065.9
37.5°	1215.2	1220.7	1250.2	1288.1	1319.4	1318.7	1284.6	1223.4	1153.6	1128.2	1126.1
40°	1308.4	1314.2	1347.9	1382.6	1413.9	1411.2	1369.9	1301.5	1227.2	1198.7	1204.2
42.5°	1389.2	1395.7	1433.9	1483.4	1511.6	1510.9	1463.1	1386.1	1308.7	1283.3	1288.1
45°	1462.7	1468.6	1512.9	1569.7	1610.9	1616.1	1563.8	1482.3	1402.9	1370.2	1371.6
47.5°	1514.7	1525.7	1572.1	1637.1	1693.1	1711.3	1660.1	1580.3	1488.9	1454.8	1456.9
50°	1554.2	1561.1	1611.6	1685.6	1756.4	1794.2	1753.0	1671.1	1574.8	1538.7	1543.5
52.5°	1559.0	1567.3	1622.3	1707.6	1798.3	1855.8	1835.5	1759.8	1662.5	1625.4	1635.7
55°	1519.8	1524.6	1590.3	1693.8	1814.8	1901.5	1906.7	1842.4	1746.1	1717.9	1724.8
57.5°	1408.1	1420.4	1503.7	1629.5	1792.2	1925.9	1960.0	1917.3	1830.7	1802.8	1813.8
60°	1224.8	1237.2	1320.7	1480.3	1706.5	1914.6	2004.0	1983.7	1907.3	1885.0	1890.8
62.5°	959.7	958.7	1062.2	1257.8	1536.3	1858.9	2036.6	2047.6	1983.0	1954.8	1963.7
65°	622.0	625.1	725.2	936.0	1279.5	1717.2	2043.9	2129.1	2057.3	2014.6	2021.2
66°	500.3	509.6	594.5	788.8	1148.5	1624.4	2022.2	2153.2	2080.0	2028.4	2031.5
67.5°	369.3	367.6	437.4	587.3	917.1	1448.0	1954.4	2168.3	2105.7	2040.8	2042.1
70°	210.8	210.4	235.2	322.5	539.2	1019.5	1647.4	2095.8	2158.0	2085.5	2081.7
72.5°	154.0	153.0	156.5	178.1	263.0	514.7	1136.4	1831.7	2131.2	2078.2	2067.6
75°	129.3	128.6	127.9	130.7	147.5	233.1	603.1	1317.6	1849.2	1950.7	1939.7
77.5°	105.6	105.6	105.9	105.2	105.9	122.8	250.0	706.3	1126.1	1257.1	1287.7
80°	82.5	82.2	88.0	85.6	80.1	78.7	110.7	227.3	373.8	371.7	306.7
82.5°	60.9	56.7	67.1	65.3	59.1	50.2	64.6	97.0	124.8	81.1	60.2
85°	38.5	38.2	47.5	43.3	36.1	23.7	30.9	41.6	51.6	31.3	25.4
87.5°	6.9	6.5	15.1	11.0	11.0	6.9	8.6	11.3	16.8	11.7	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)