

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: P450833

Luminaire Tested: **GALN-SA1C-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450833
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-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5832 lumens
Efficiency: N/A
Efficacy: 102.3 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 (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

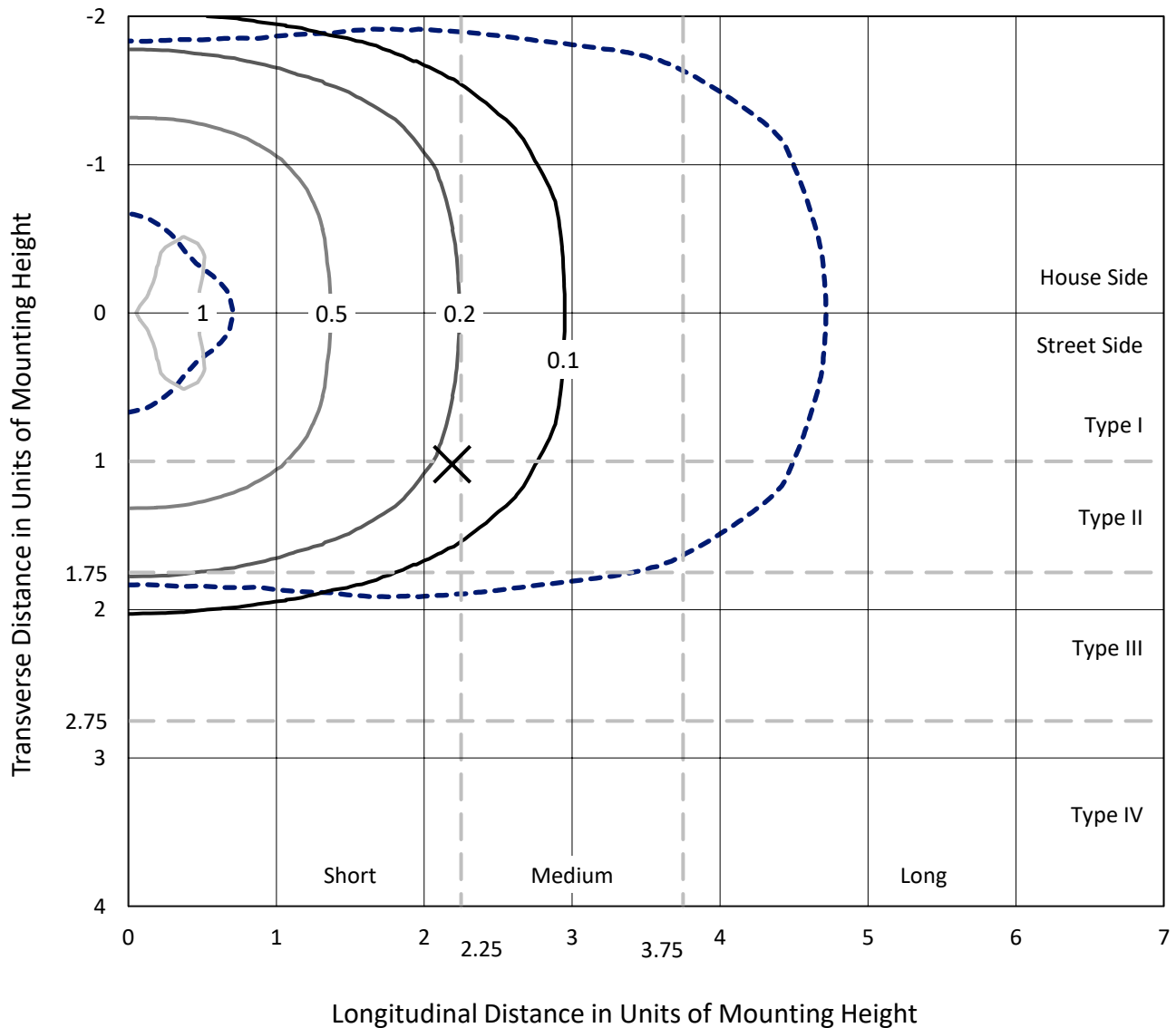


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

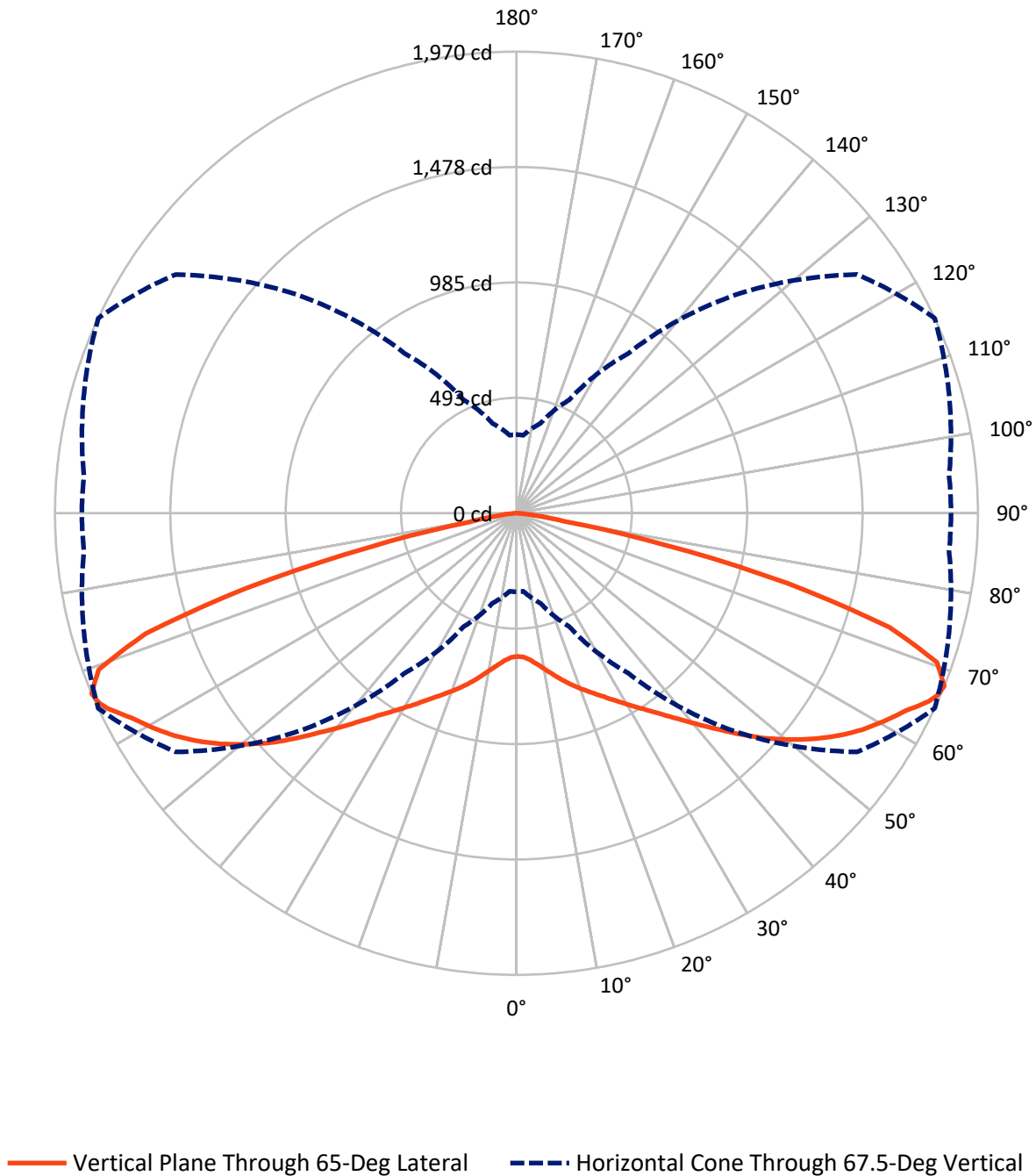


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2916.0	0.0	2916.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2916.0	0.0	2916.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5832.0	0.0	5832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	1.0
10°-20°	201.6	3.5
20°-30°	394.4	6.8
30°-40°	670.9	11.5
40°-50°	1061.8	18.2
50°-60°	1407.9	24.1
60°-70°	1328.1	22.8
70°-80°	656.5	11.3
80°-90°	50.6	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°	5832.0	100.0
0°-180°	5832.0	100.0

Coefficient of Utilization



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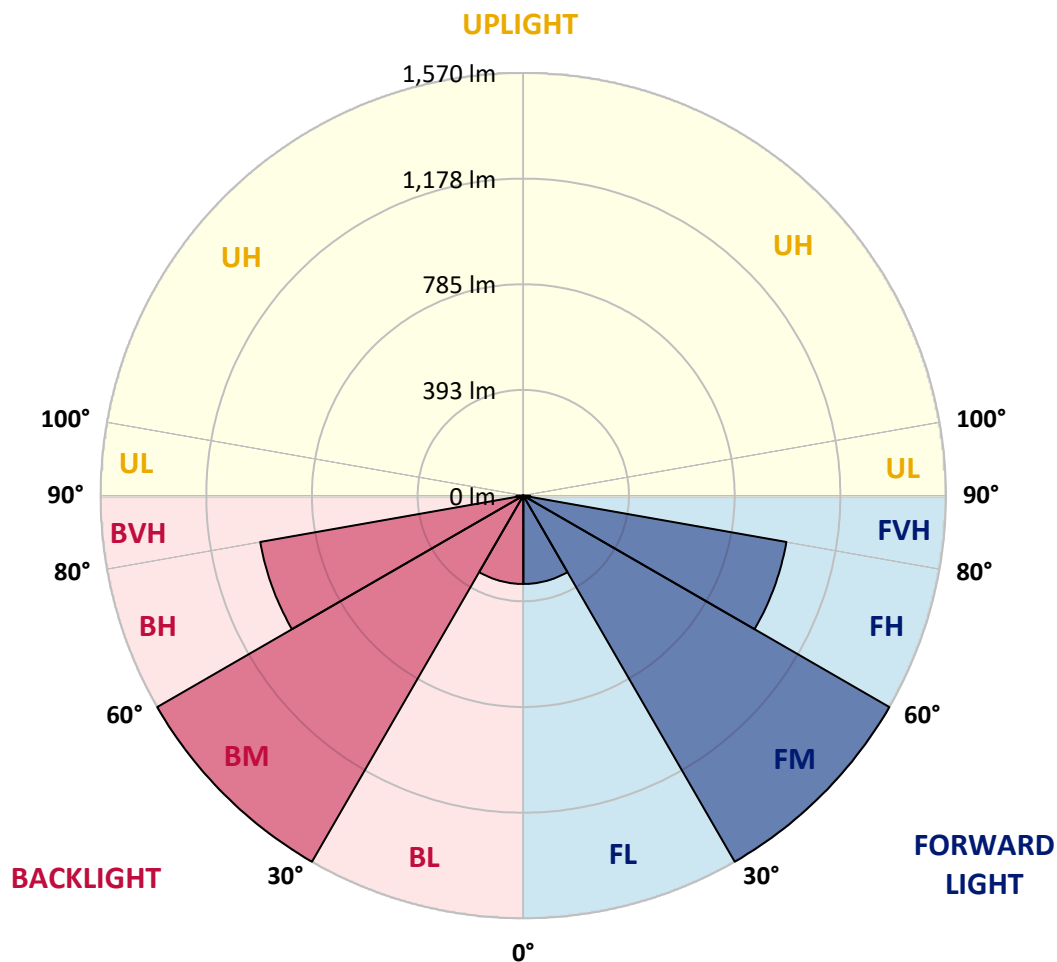
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.2	5.6			
FM	(30°-60°)	1570.2	26.9			
FH	(60°-80°)	992.3	17.0			G1/1800
FVH	(80°-90°)	25.3	0.4			G1/100
BL	(0°-30°)	328.2	5.6	B1/500		
BM	(30°-60°)	1570.2	26.9	B2/2500		
BH	(60°-80°)	992.3	17.0	B2/1000		G2/1000
BVH	(80°-90°)	25.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9
2.5°	607.7	608.4	609.0	609.9	611.2	613.0	614.3	615.2	617.7	618.0	617.7
5°	605.5	606.2	607.7	610.5	614.6	620.2	624.6	629.9	634.0	636.8	636.2
7.5°	605.2	606.5	609.0	614.9	622.7	632.4	642.4	651.5	659.3	665.5	664.6
10°	610.2	611.8	615.8	624.6	636.8	650.8	664.9	678.3	689.6	697.7	700.5
12.5°	618.7	619.9	627.4	640.5	658.0	675.5	691.5	708.0	723.6	737.4	737.4
15°	633.3	635.5	644.9	664.0	685.5	705.8	722.1	739.6	756.5	772.1	776.8
17.5°	653.7	656.8	670.8	695.2	722.7	741.5	756.8	771.1	785.8	800.8	803.0
20°	681.5	684.6	703.3	732.7	765.2	787.7	798.0	801.4	808.6	823.0	824.9
22.5°	719.3	722.4	743.3	776.5	812.7	837.1	841.4	833.3	831.4	842.7	843.9
25°	762.1	764.9	789.0	824.6	862.1	888.6	887.4	867.4	856.1	863.0	864.9
27.5°	810.2	814.3	838.6	875.5	916.1	939.6	935.8	906.7	882.7	881.4	882.1
30°	871.8	876.1	899.2	934.6	974.5	996.1	988.3	949.2	912.1	899.6	899.6
32.5°	936.7	947.7	971.1	1008.0	1039.2	1054.8	1043.0	996.1	946.7	929.2	928.3
35°	1021.4	1027.4	1050.5	1086.4	1109.8	1122.0	1099.2	1048.9	992.0	971.4	968.6
37.5°	1104.2	1109.2	1136.1	1170.5	1198.9	1198.3	1167.3	1111.7	1048.3	1025.2	1023.3
40°	1188.9	1194.2	1224.8	1256.4	1284.8	1282.3	1244.8	1182.6	1115.2	1089.2	1094.2
42.5°	1262.3	1268.3	1302.9	1347.9	1373.6	1372.9	1329.5	1259.5	1189.2	1166.1	1170.5
45°	1329.2	1334.5	1374.8	1426.4	1463.9	1468.5	1421.0	1347.0	1274.8	1245.1	1246.4
47.5°	1376.4	1386.4	1428.5	1487.6	1538.5	1555.1	1508.5	1436.0	1352.9	1322.0	1323.9
50°	1412.3	1418.5	1464.5	1531.7	1596.0	1630.4	1592.9	1518.5	1431.0	1398.2	1402.6
52.5°	1416.7	1424.2	1474.2	1551.7	1634.1	1686.3	1667.9	1599.1	1510.7	1477.0	1486.4
55°	1381.1	1385.4	1445.1	1539.2	1649.1	1727.9	1732.6	1674.1	1586.6	1561.0	1567.3
57.5°	1279.5	1290.8	1366.4	1480.7	1628.5	1750.1	1781.0	1742.3	1663.5	1638.2	1648.2
60°	1113.0	1124.2	1200.1	1345.1	1550.7	1739.8	1821.0	1802.6	1733.2	1712.9	1718.2
62.5°	872.1	871.1	965.2	1143.0	1396.1	1689.1	1850.7	1860.7	1801.9	1776.3	1784.4
65°	565.2	568.0	659.0	850.5	1162.6	1560.4	1857.2	1934.7	1869.4	1830.7	1836.6
66°	454.6	463.1	540.2	716.8	1043.6	1476.0	1837.6	1956.6	1890.0	1843.2	1846.0
67.5°	335.6	334.0	397.4	533.7	833.3	1315.8	1776.0	1970.3	1913.5	1854.4	1855.7
70°	191.5	191.2	213.7	293.1	489.9	926.4	1497.0	1904.4	1961.0	1895.0	1891.6
72.5°	140.0	139.0	142.2	161.9	239.0	467.7	1032.7	1664.5	1936.6	1888.5	1878.8
75°	117.5	116.9	116.2	118.7	134.0	211.8	548.0	1197.3	1680.4	1772.6	1762.6
77.5°	95.9	95.9	96.2	95.6	96.2	111.5	227.2	641.8	1023.3	1142.3	1170.1
80°	75.0	74.7	80.0	77.8	72.8	71.6	100.6	206.5	339.6	337.8	278.7
82.5°	55.3	51.6	60.9	59.4	53.7	45.6	58.7	88.1	113.4	73.7	54.7
85°	35.0	34.7	43.1	39.4	32.8	21.6	28.1	37.8	46.9	28.4	23.1
87.5°	6.2	5.9	13.7	10.0	10.0	6.2	7.8	10.3	15.3	10.6	7.8
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)