

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: P450597

Luminaire Tested: **GALN-SA1B-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4775 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 44
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

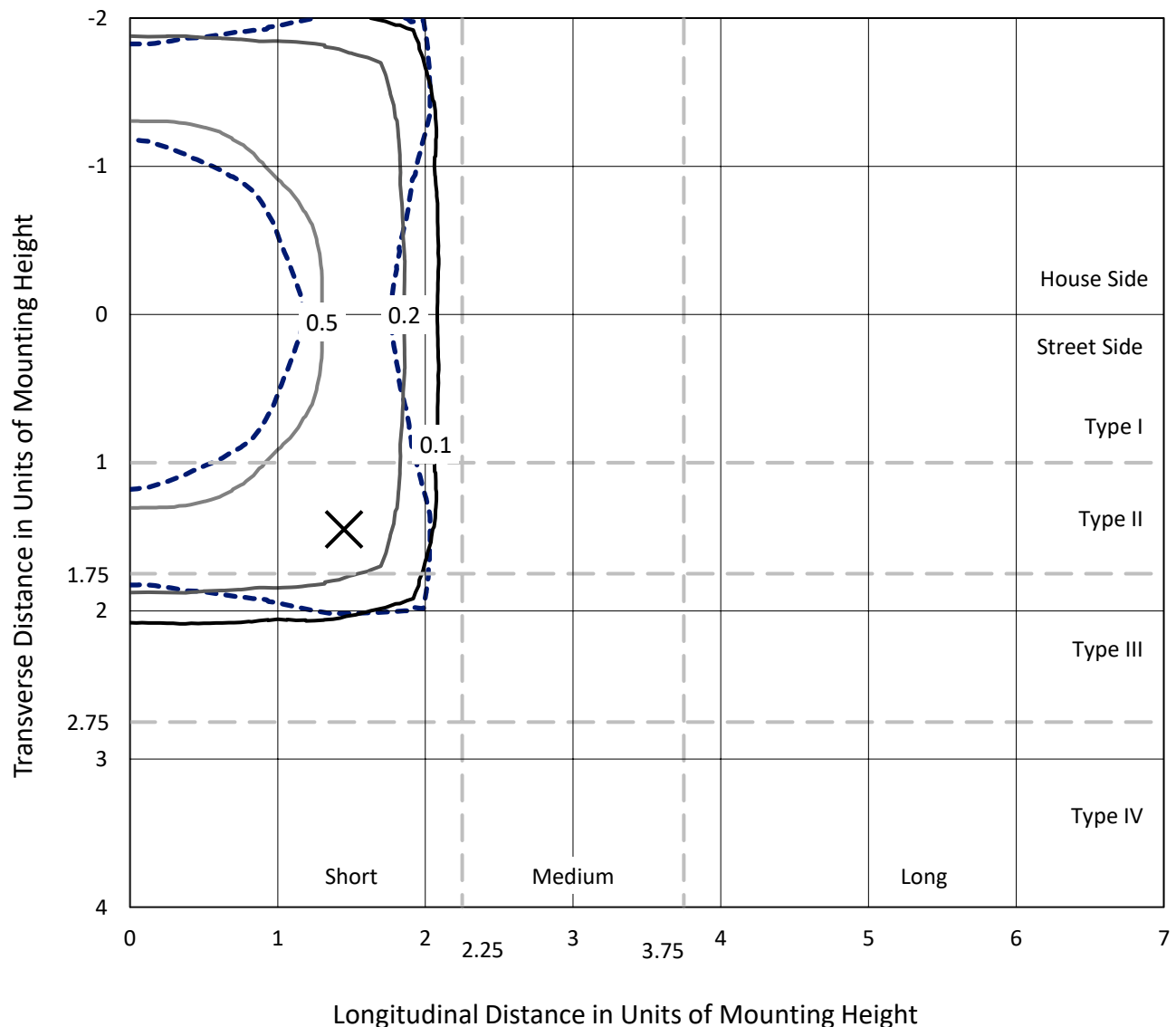


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

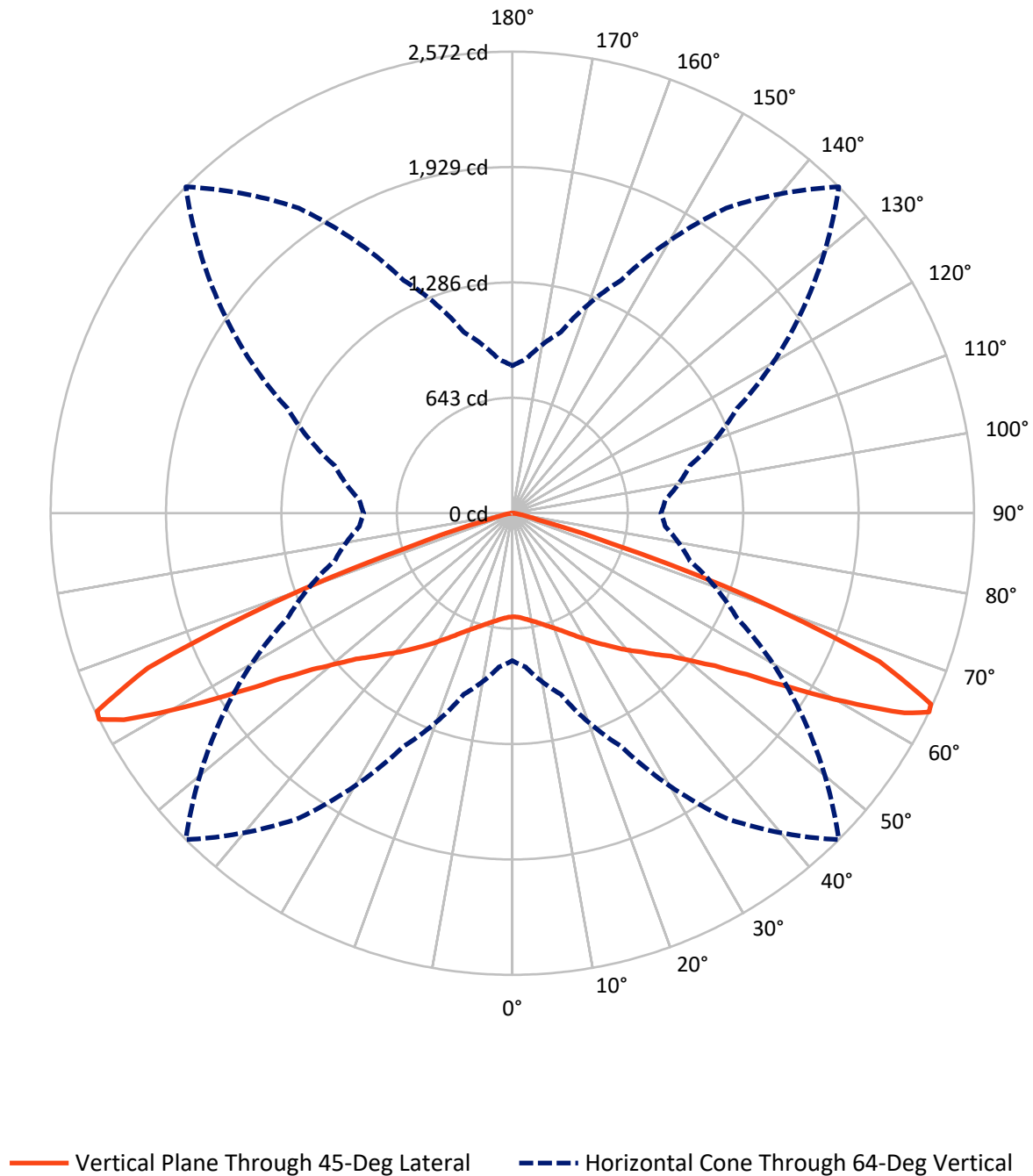


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.5	0.0	2387.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2387.5	0.0	2387.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4775.0	0.0	4775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	1.2
10°-20°	182.9	3.8
20°-30°	345.6	7.2
30°-40°	572.4	12.0
40°-50°	893.6	18.7
50°-60°	1381.5	28.9
60°-70°	1191.2	24.9
70°-80°	135.0	2.8
80°-90°	16.2	0.3
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°	4775.0	100.0
0°-180°	4775.0	100.0

Coefficient of Utilization



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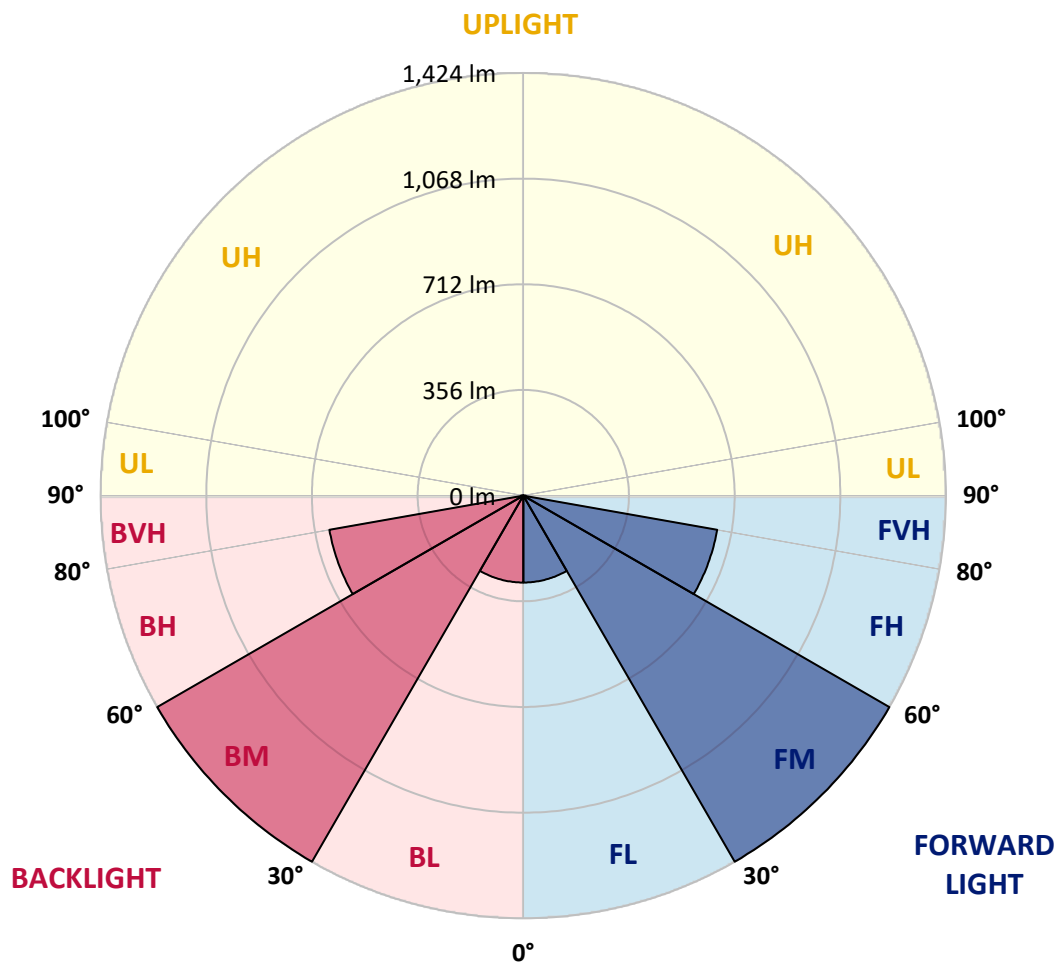
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.6	6.1			
FM	(30°-60°)	1423.7	29.8			
FH	(60°-80°)	663.1	13.9			G1/1800
FVH	(80°-90°)	8.1	0.2			G0/10
BL	(0°-30°)	292.6	6.1	B1/500		
BM	(30°-60°)	1423.7	29.8	B2/2500		
BH	(60°-80°)	663.1	13.9	B2/1000		G1/1800
BVH	(80°-90°)	8.1	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1
2.5°	579.4	580.7	579.7	579.4	579.2	579.2	579.2	579.4	580.4	581.2	580.7
5°	586.7	587.8	587.3	587.0	586.7	587.0	586.5	586.2	587.0	587.0	586.7
7.5°	595.9	597.1	596.6	597.1	597.4	597.6	596.4	595.3	595.1	595.9	595.3
10°	608.2	609.3	609.5	609.8	610.3	610.0	608.5	606.7	606.5	606.2	606.0
12.5°	622.2	622.9	623.2	624.2	624.9	625.2	623.4	621.9	619.4	619.9	618.9
15°	637.8	639.4	639.1	640.6	642.6	643.1	641.4	638.8	636.6	635.3	634.5
17.5°	657.1	658.1	657.6	659.1	661.6	662.9	661.4	658.1	655.8	653.0	651.5
20°	679.8	681.6	682.1	682.1	684.4	685.6	683.4	682.3	678.8	676.8	675.5
22.5°	705.6	706.4	707.9	709.4	711.7	711.2	710.4	708.9	705.6	703.8	701.8
25°	734.7	735.5	739.3	742.5	743.3	742.8	741.8	741.0	738.0	733.9	732.4
27.5°	768.6	770.1	775.2	778.2	778.2	778.5	776.4	779.0	772.4	767.6	767.1
30°	811.1	812.1	816.4	819.4	817.9	816.6	816.1	818.7	811.6	803.0	801.0
32.5°	853.1	856.6	860.4	867.0	861.7	859.4	858.9	860.7	852.6	842.9	840.2
35°	898.1	900.6	907.7	913.3	908.5	903.1	905.4	911.0	901.4	888.5	888.0
37.5°	947.9	950.2	959.3	965.1	961.6	952.5	956.3	962.8	953.2	937.3	934.0
40°	999.8	1004.6	1015.9	1022.0	1016.2	1004.0	1011.1	1018.2	1009.6	991.2	983.8
42.5°	1057.9	1065.5	1081.9	1085.0	1073.9	1057.4	1069.8	1081.2	1075.1	1053.9	1051.1
45°	1126.0	1130.5	1150.7	1157.3	1141.9	1121.4	1136.8	1157.6	1153.0	1128.5	1123.2
47.5°	1202.1	1206.4	1227.4	1237.2	1217.8	1190.2	1218.0	1245.1	1242.3	1216.0	1213.5
50°	1292.1	1293.1	1322.2	1333.3	1313.9	1290.1	1314.9	1348.5	1337.4	1303.7	1303.2
52.5°	1390.7	1392.0	1428.7	1450.2	1439.3	1412.5	1441.8	1462.3	1434.0	1390.0	1386.7
55°	1476.2	1482.6	1532.6	1589.8	1604.7	1585.2	1594.1	1584.5	1514.7	1453.0	1443.4
57.5°	1511.1	1523.5	1599.7	1706.4	1803.5	1832.3	1764.0	1672.5	1546.8	1459.5	1450.2
60°	1425.9	1439.3	1557.4	1760.0	2007.8	2133.0	1941.1	1687.4	1473.7	1351.0	1336.4
62.5°	1141.9	1145.7	1319.4	1633.8	2127.0	2451.2	2015.7	1560.2	1261.0	1094.3	1088.5
64°	821.7	860.7	1044.8	1432.5	2074.9	2572.3	1972.7	1381.9	1024.3	855.6	828.3
65°	614.6	625.2	842.2	1223.3	1983.1	2563.2	1889.2	1211.4	848.3	654.8	624.4
67.5°	232.2	233.4	310.8	609.8	1411.7	2205.4	1441.8	659.1	357.4	258.5	249.1
70°	96.4	98.1	114.1	205.1	606.7	1416.0	695.2	237.7	130.8	106.0	104.5
72.5°	70.6	71.6	76.4	91.0	186.6	581.4	228.6	100.9	76.6	68.5	67.8
75°	55.4	55.9	59.4	67.0	87.0	161.1	95.1	69.3	58.4	52.6	52.1
77.5°	42.2	43.5	46.0	51.1	58.4	76.4	63.0	51.8	45.0	40.2	39.5
80°	29.1	30.6	35.4	37.4	39.2	49.6	43.0	39.2	35.2	29.3	27.6
82.5°	18.0	19.0	23.8	25.5	24.8	27.8	27.6	28.1	25.0	18.2	16.9
85°	9.4	9.9	12.9	13.4	12.4	11.4	14.2	16.4	15.4	10.4	10.1
87.5°	2.0	2.3	2.8	2.5	2.8	2.8	3.5	5.3	5.6	3.5	3.3
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)