

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: P648196

Luminaire Tested: **GALN-SA1B-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4718.3 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

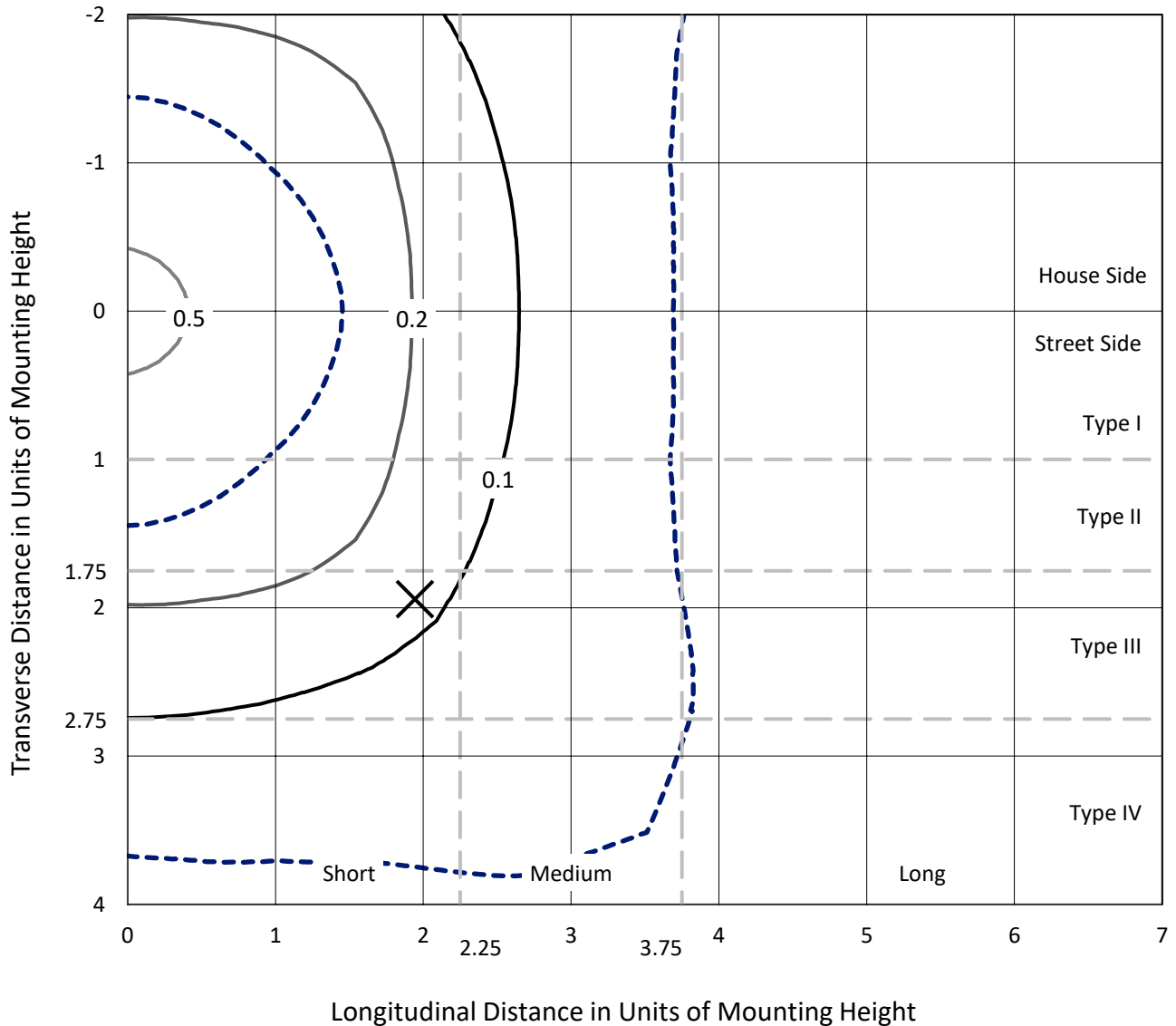
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648196
 CATALOG NUMBER: GALN-SA1B-835-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

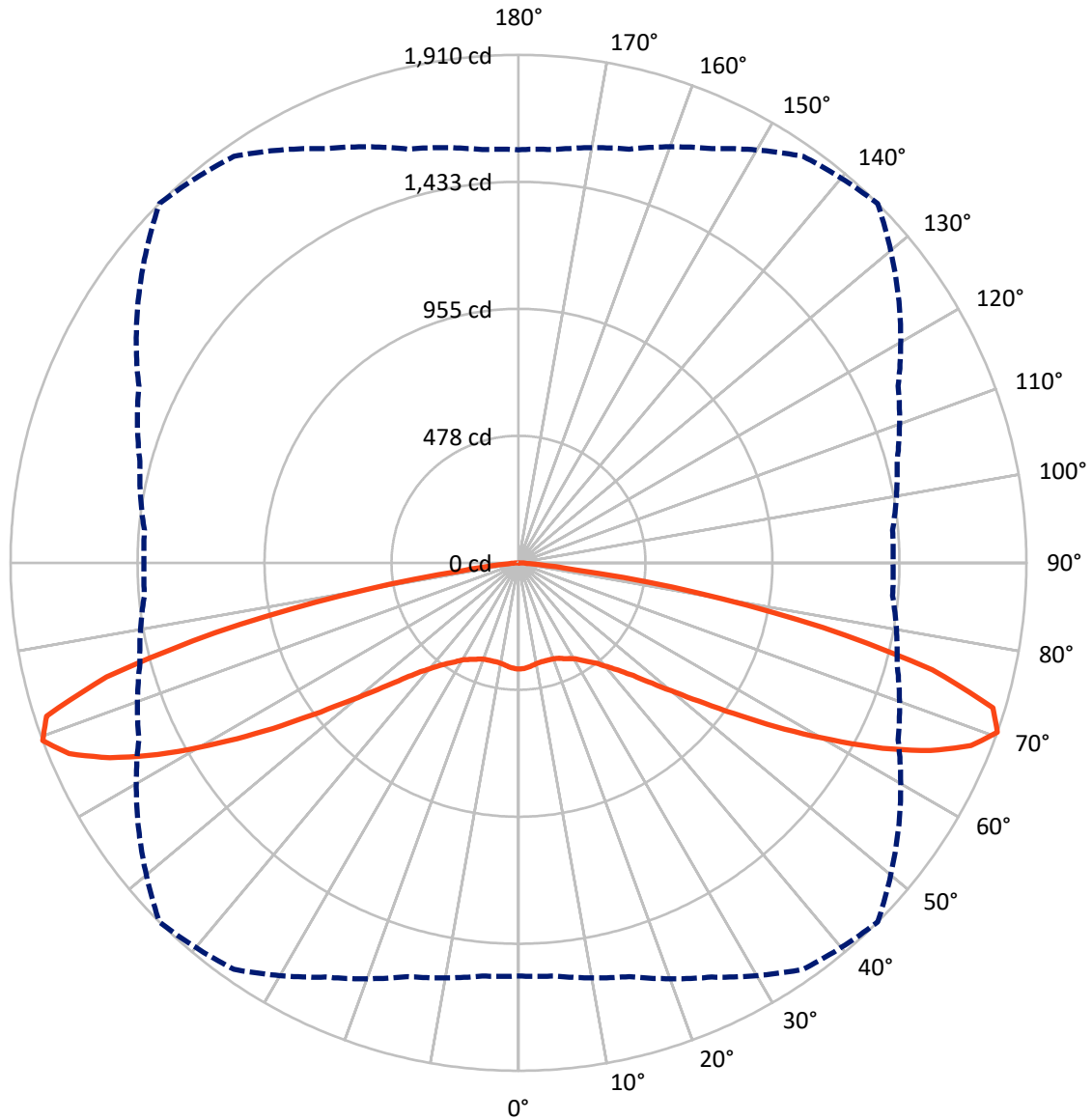
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - N/A

REPORT NUMBER: P648196
CATALOG NUMBER: GALN-SA1B-835-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GALN-SA1B-835-U-5WQ

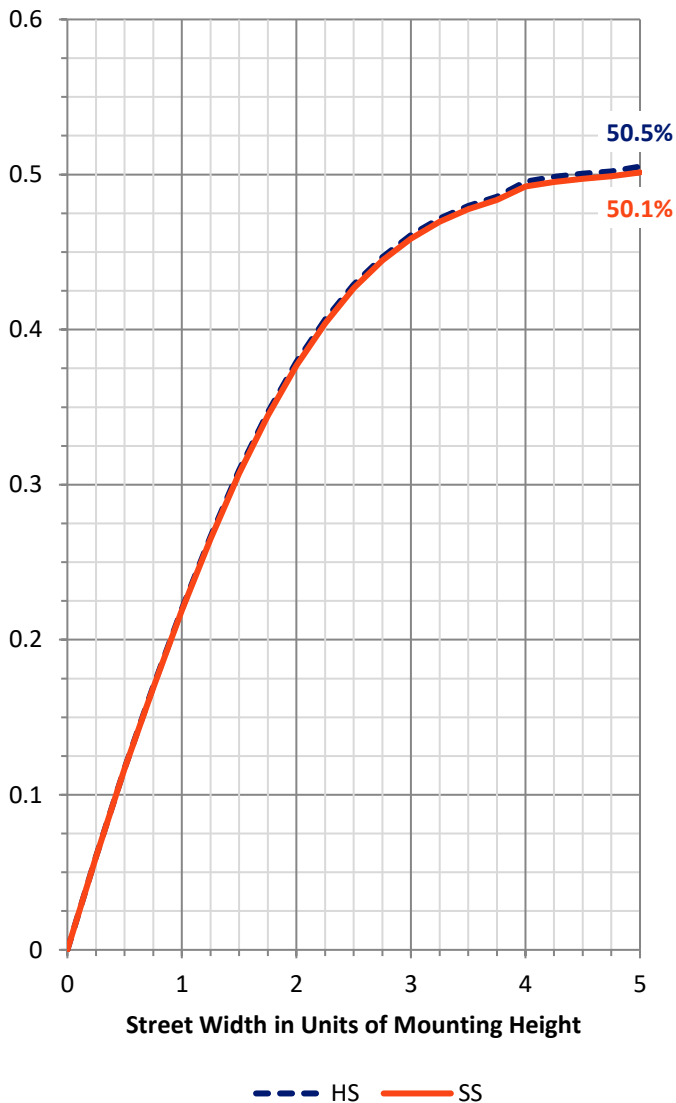
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2359.2	0.0	2359.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2359.2	0.0	2359.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	4718.3	0.0	4718.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	0.8
10°-20°	109.4	2.3
20°-30°	186.3	3.9
30°-40°	288.8	6.1
40°-50°	486.1	10.3
50°-60°	884.5	18.7
60°-70°	1497.4	31.7
70°-80°	1159.0	24.6
80°-90°	69.5	1.5
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°	4718.3	100.0
0°-180°	4718.3	100.0



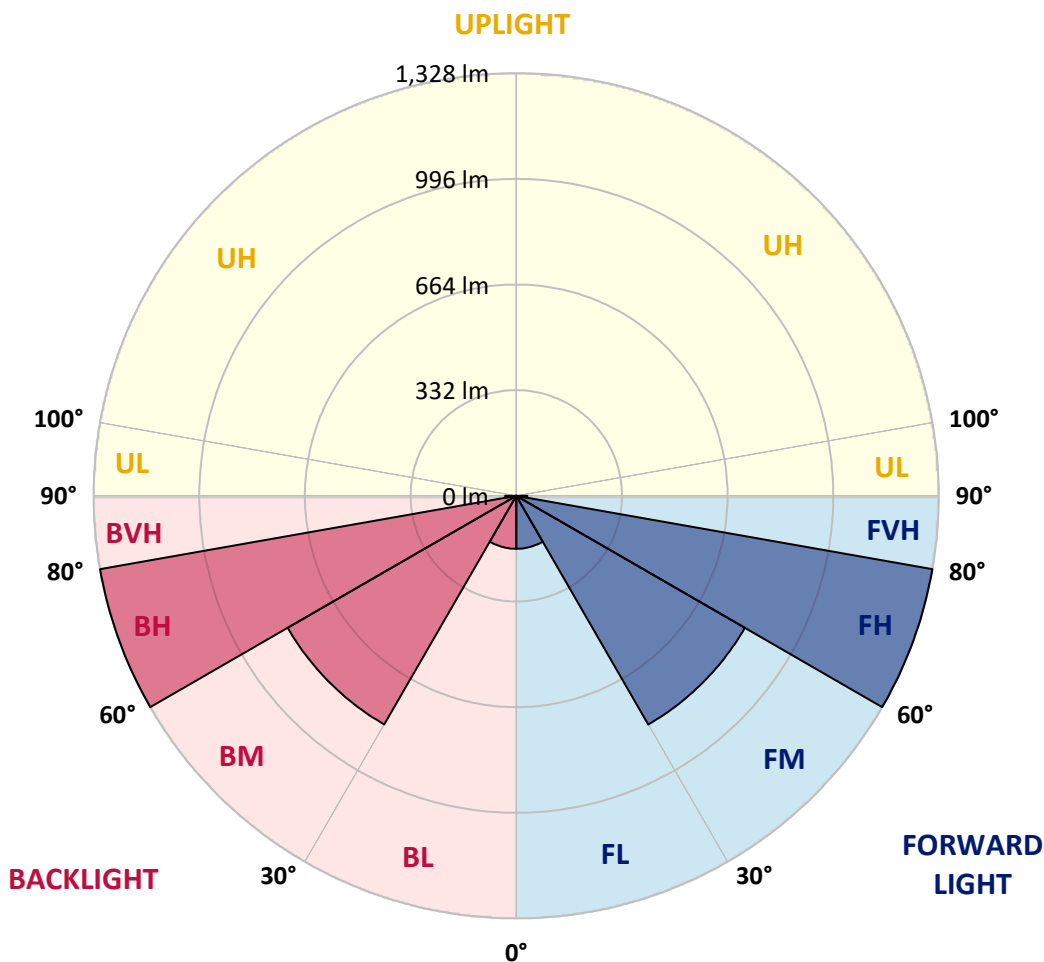
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.5	3.5			
FM (30°-60°)	829.7	17.6			
FH (60°-80°)	1328.2	28.1			G1/1800
FVH (80°-90°)	34.7	0.7			G1/100
BL (0°-30°)	166.5	3.5	B1/500		
BM (30°-60°)	829.7	17.6	B1/1000		
BH (60°-80°)	1328.2	28.1	B3/2500		G1/1800
BVH (80°-90°)	34.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	399.5	399.5	399.5	399.5	399.5	399.5	399.5	399.5	399.5	399.5	399.5
2.5°	398.5	398.7	398.7	398.2	398.0	398.0	397.7	397.7	398.5	398.7	398.9
5°	394.9	394.9	394.9	394.7	394.2	394.2	393.8	393.8	394.0	394.7	394.2
7.5°	390.2	390.7	390.7	389.8	389.0	389.0	388.8	389.0	389.2	390.0	389.8
10°	388.8	389.0	387.7	386.0	384.8	384.8	384.3	384.8	386.0	386.5	386.7
12.5°	389.8	389.8	387.5	385.0	382.8	381.8	381.6	383.3	385.5	387.0	387.5
15°	391.0	390.5	387.7	384.5	382.3	382.0	381.8	383.0	386.3	389.2	389.5
17.5°	391.7	391.5	388.0	384.0	382.8	382.8	382.5	383.5	387.0	390.7	391.0
20°	394.2	393.5	389.5	385.2	384.3	384.8	384.0	385.2	389.0	393.5	394.5
22.5°	399.3	398.5	394.5	390.2	389.8	389.8	389.5	390.7	394.7	399.5	400.2
25°	405.2	404.4	400.7	397.7	398.2	399.3	398.7	398.9	402.2	406.2	407.5
27.5°	413.2	411.9	408.7	406.2	407.7	407.7	407.7	407.5	409.4	413.2	414.4
30°	422.9	422.4	418.9	418.7	419.9	418.7	418.7	418.9	419.1	422.7	423.9
32.5°	435.6	434.6	432.8	432.4	435.8	436.8	433.4	430.1	431.8	435.3	436.1
35°	456.6	455.0	452.6	449.8	452.6	457.3	449.8	447.3	451.8	456.6	457.0
37.5°	484.9	484.2	480.2	475.2	475.0	480.0	472.2	472.0	480.4	486.2	486.9
40°	520.6	521.3	516.3	511.6	509.1	513.1	507.1	509.3	517.6	524.1	523.6
42.5°	570.7	567.9	560.2	555.7	553.0	551.5	550.0	553.5	562.7	569.6	575.1
45°	629.2	628.2	618.5	613.0	607.1	604.8	604.3	610.5	621.8	630.2	630.9
47.5°	695.5	693.3	687.0	681.3	679.1	676.4	673.8	678.5	689.8	695.8	697.5
50°	763.8	764.3	764.3	763.3	765.5	766.0	759.3	761.1	767.3	766.8	766.3
52.5°	841.8	844.5	857.5	858.7	869.4	876.6	864.5	857.2	855.0	841.6	842.5
55°	933.5	936.0	955.4	974.8	1003.8	1016.0	990.3	967.9	952.0	931.5	932.5
57.5°	1047.9	1049.1	1067.5	1105.0	1150.8	1179.4	1134.3	1090.0	1057.6	1038.2	1030.4
60°	1171.0	1172.2	1199.2	1244.7	1316.0	1350.9	1295.1	1222.6	1181.7	1152.0	1154.1
62.5°	1318.7	1323.7	1347.9	1410.7	1497.2	1536.3	1462.3	1365.4	1310.0	1273.2	1274.6
65°	1477.0	1485.5	1511.9	1581.0	1660.7	1702.8	1612.0	1500.1	1431.4	1386.3	1391.0
67.5°	1579.7	1587.1	1625.3	1701.5	1801.0	1835.8	1718.8	1588.4	1502.4	1448.6	1438.6
70°	1553.5	1559.7	1610.6	1718.8	1866.0	1910.1	1744.1	1575.5	1474.2	1412.2	1408.2
72.5°	1371.3	1358.3	1432.7	1587.9	1791.7	1865.7	1664.2	1438.8	1311.5	1247.7	1240.3
75°	908.8	937.0	1046.6	1229.5	1515.9	1607.6	1420.4	1155.3	995.0	941.9	933.7
77.5°	303.8	325.5	422.9	697.0	1033.4	1171.2	1034.9	755.6	534.6	430.6	432.6
80°	80.5	79.5	102.9	191.6	446.5	678.3	519.8	256.0	140.1	101.4	96.2
82.5°	28.9	32.4	41.6	53.1	118.4	210.9	148.8	71.8	52.6	38.8	37.7
85°	12.7	12.4	17.9	21.2	29.7	39.4	34.9	30.4	26.7	17.7	16.4
87.5°	2.7	2.7	4.2	3.2	5.2	5.2	6.5	7.8	8.0	5.2	4.2
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)