

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: P648306

Luminaire Tested: **GALN-SA3B-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648306
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-SA3B-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13920.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

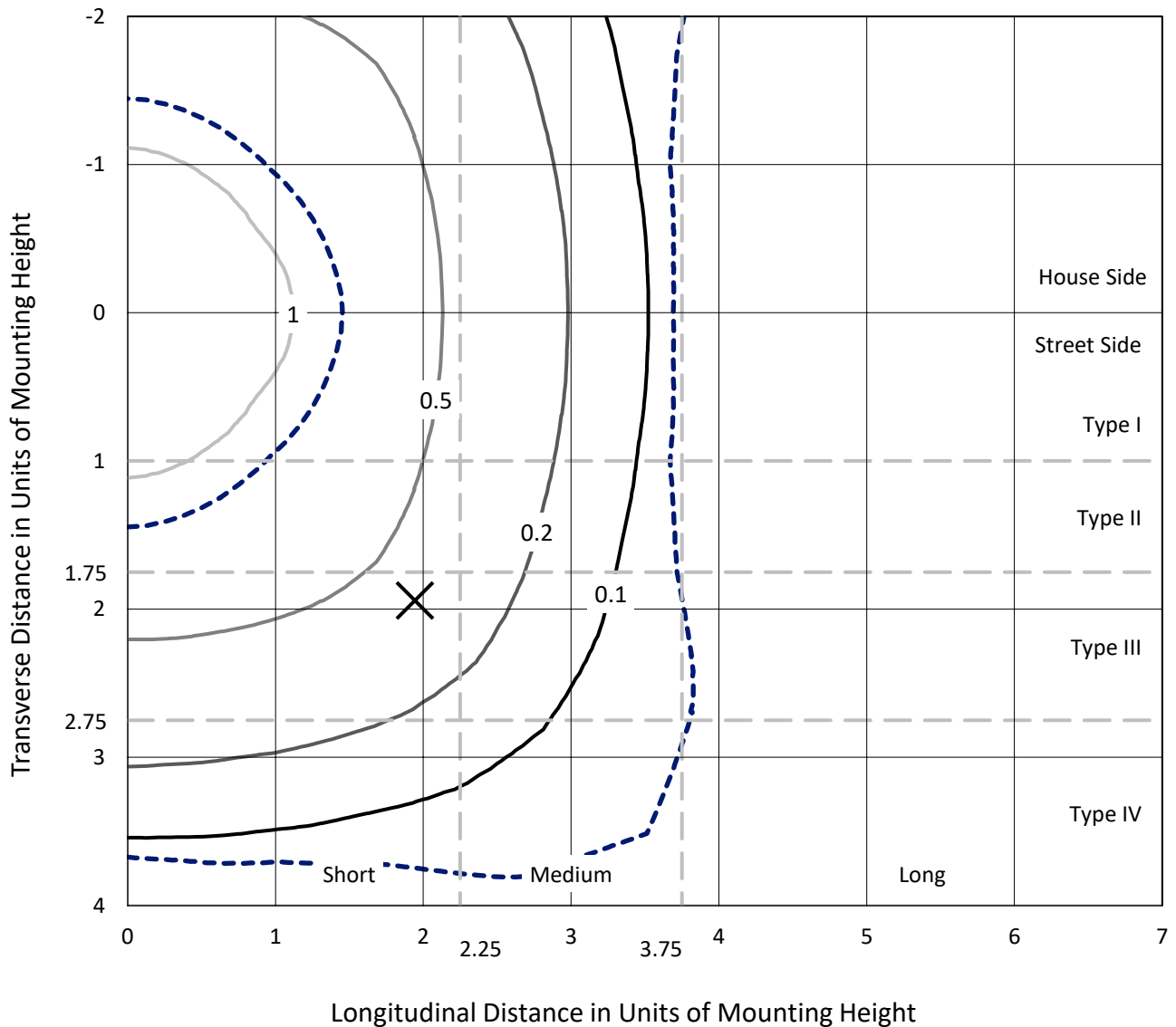
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

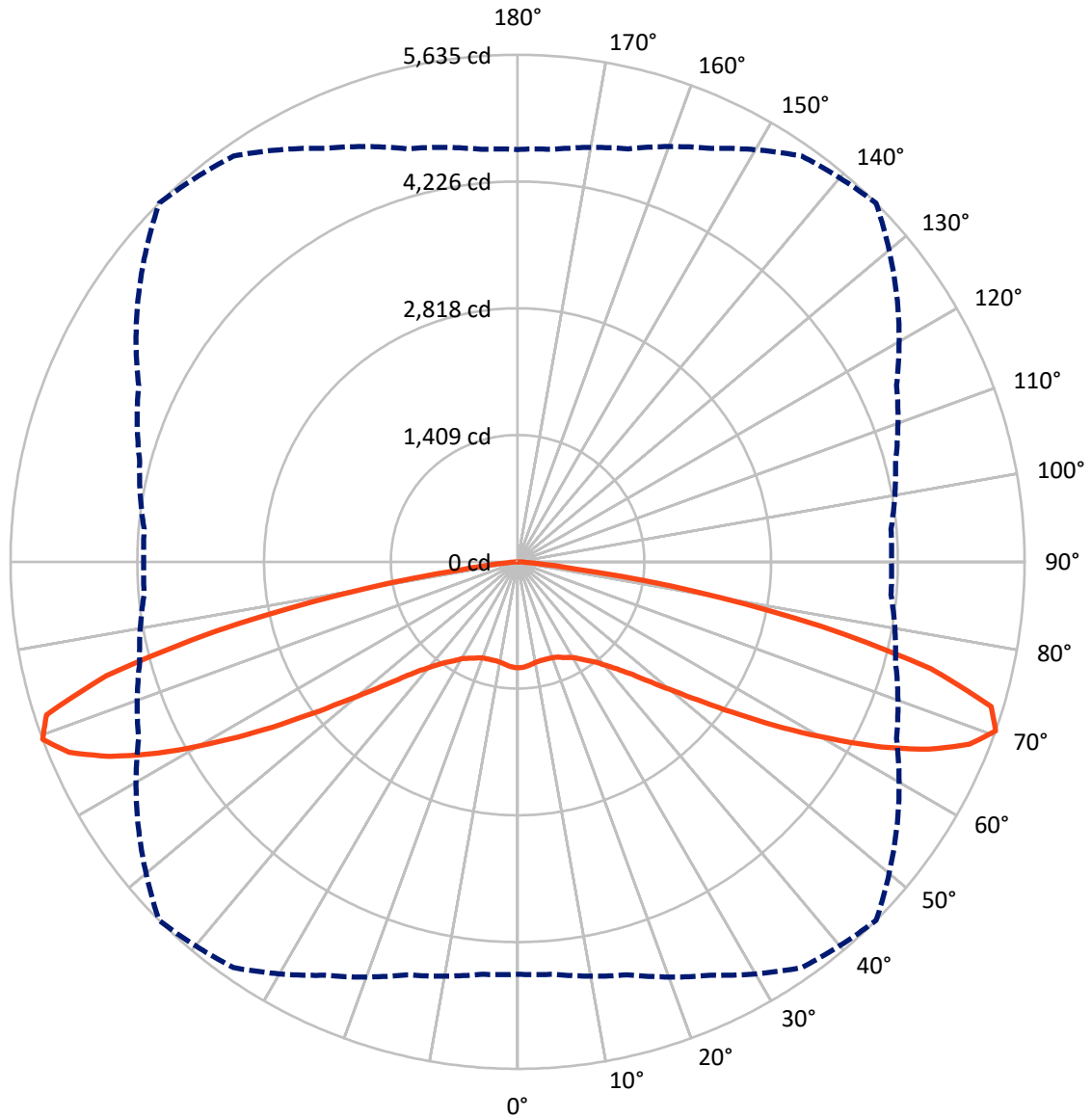
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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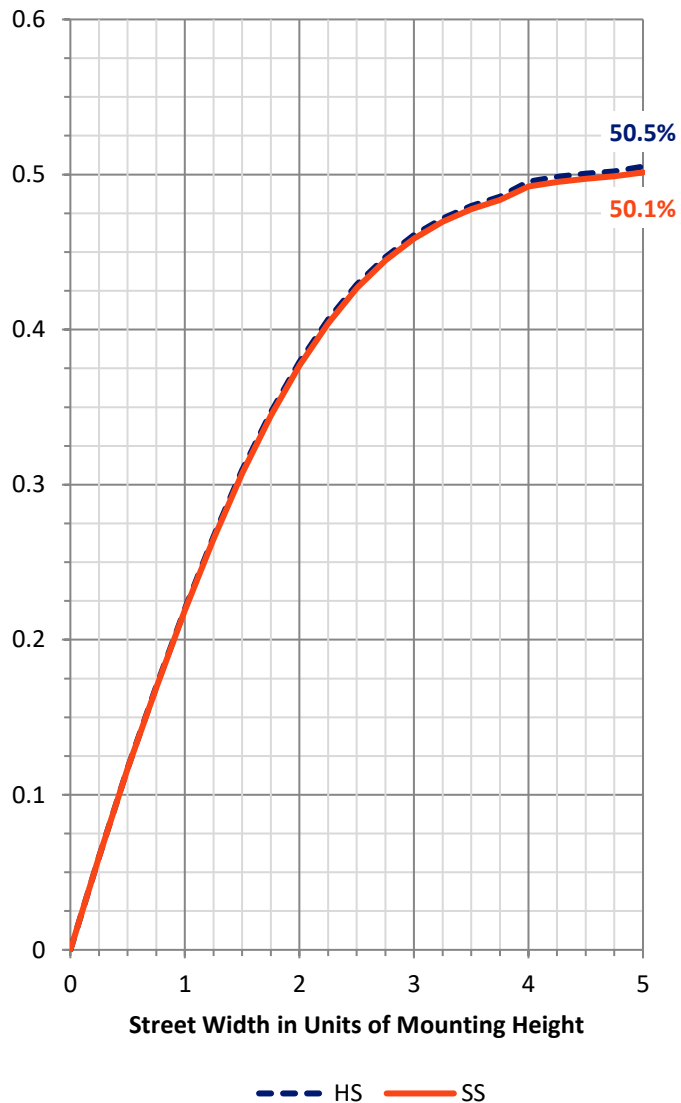
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6960.1	0.0	6960.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6960.1	0.0	6960.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	13920.2	0.0	13920.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	0.8
10°-20°	322.7	2.3
20°-30°	549.7	3.9
30°-40°	852.1	6.1
40°-50°	1434.2	10.3
50°-60°	2609.4	18.7
60°-70°	4417.6	31.7
70°-80°	3419.4	24.6
80°-90°	204.9	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°	13920.2	100.0
0°-180°	13920.2	100.0

Coefficient of Utilization



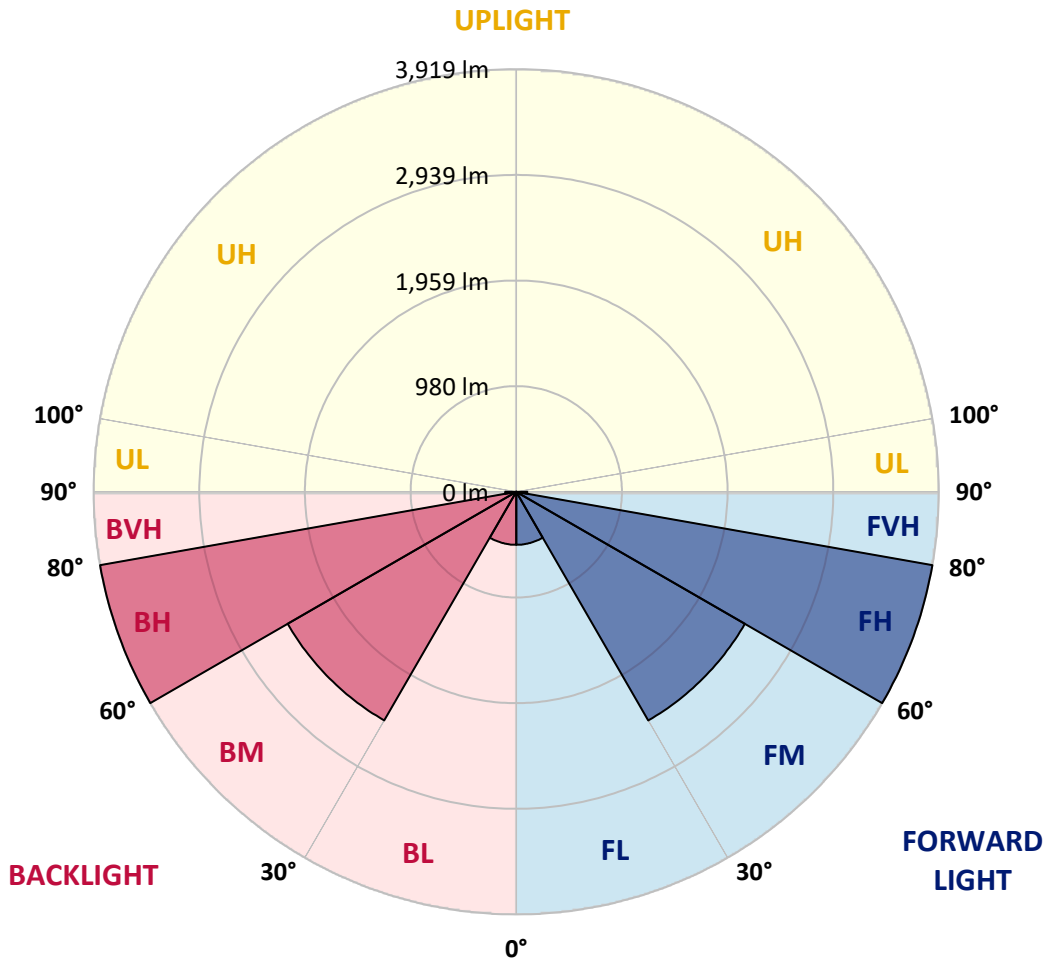
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.3	3.5			
FM (30°-60°)	2447.8	17.6			
FH (60°-80°)	3918.5	28.1			G2/5000
FVH (80°-90°)	102.4	0.7			G2/225
BL (0°-30°)	491.3	3.5	B1/500		
BM (30°-60°)	2447.8	17.6	B2/2500		
BH (60°-80°)	3918.5	28.1	B4/5000		G2/5000
BVH (80°-90°)	102.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1178.5	1178.5	1178.5	1178.5	1178.5	1178.5	1178.5	1178.5	1178.5	1178.5	1178.5
2.5°	1175.6	1176.3	1176.3	1174.8	1174.1	1174.1	1173.4	1173.4	1175.6	1176.3	1177.0
5°	1165.3	1165.3	1165.3	1164.6	1163.1	1163.1	1161.6	1161.6	1162.4	1164.6	1163.1
7.5°	1151.3	1152.8	1152.8	1149.8	1147.6	1147.6	1146.9	1147.6	1148.3	1150.5	1149.8
10°	1146.9	1147.6	1144.0	1138.8	1135.1	1132.9	1133.6	1135.1	1138.8	1140.3	1141.0
12.5°	1149.8	1149.8	1143.3	1135.9	1129.2	1126.3	1125.6	1130.7	1137.3	1141.8	1143.3
15°	1153.5	1152.0	1144.0	1134.4	1127.8	1127.1	1126.3	1130.0	1139.6	1148.3	1149.1
17.5°	1155.7	1155.0	1144.7	1132.9	1129.2	1129.2	1128.5	1131.4	1141.8	1152.8	1153.5
20°	1163.1	1160.9	1149.1	1136.6	1133.6	1135.1	1132.9	1136.6	1147.6	1160.9	1163.8
22.5°	1177.8	1175.6	1163.8	1151.3	1149.8	1149.8	1149.1	1152.8	1164.6	1178.5	1180.7
25°	1195.4	1193.2	1182.2	1173.4	1174.8	1177.8	1176.3	1177.0	1186.6	1198.4	1202.1
27.5°	1219.0	1215.3	1205.7	1198.4	1202.8	1202.8	1202.8	1202.1	1207.9	1219.0	1222.7
30°	1247.6	1246.1	1235.9	1235.1	1238.8	1235.1	1235.1	1235.9	1236.6	1246.8	1250.5
32.5°	1285.1	1282.2	1277.0	1275.6	1285.8	1288.8	1278.5	1268.9	1274.1	1284.4	1286.6
35°	1346.8	1342.5	1335.1	1327.0	1335.1	1349.1	1327.0	1319.7	1332.9	1346.8	1348.3
37.5°	1430.7	1428.5	1416.7	1402.0	1401.3	1416.0	1393.2	1392.5	1417.5	1434.4	1436.6
40°	1535.9	1538.0	1523.3	1509.3	1502.0	1513.8	1496.1	1502.7	1527.0	1546.1	1544.6
42.5°	1683.6	1675.5	1652.7	1639.4	1631.4	1627.0	1622.5	1632.9	1660.0	1680.6	1696.8
45°	1856.3	1853.4	1824.8	1808.6	1791.0	1784.3	1782.8	1801.2	1834.3	1859.3	1861.5
47.5°	2051.9	2045.3	2027.0	2010.0	2003.4	1995.3	1988.0	2001.9	2035.0	2052.6	2057.8
50°	2253.4	2254.8	2254.8	2251.9	2258.5	2260.0	2240.2	2245.3	2263.7	2262.2	2260.7
52.5°	2483.4	2491.6	2529.8	2533.5	2565.1	2586.4	2550.4	2529.1	2522.4	2482.7	2485.7
55°	2754.0	2761.4	2818.7	2876.0	2961.4	2997.4	2921.7	2855.5	2808.5	2748.2	2751.1
57.5°	3091.5	3095.1	3149.5	3259.9	3395.1	3479.7	3346.6	3215.7	3120.2	3062.8	3040.0
60°	3454.7	3458.4	3537.8	3672.3	3882.6	3985.5	3820.8	3606.9	3486.3	3398.8	3404.6
62.5°	3890.6	3905.4	3976.6	4162.0	4417.1	4532.5	4314.1	4028.1	3864.9	3756.1	3760.5
65°	4357.5	4382.5	4460.4	4664.1	4899.3	5023.6	4755.9	4425.8	4223.0	4089.8	4103.9
67.5°	4660.4	4682.4	4794.9	5019.9	5313.2	5416.2	5070.6	4686.1	4432.5	4273.7	4244.3
70°	4583.2	4601.5	4751.6	5070.6	5505.1	5635.3	5145.6	4647.9	4349.4	4166.3	4154.6
72.5°	4045.8	4007.6	4226.6	4684.6	5286.0	5504.4	4909.6	4245.0	3869.4	3681.1	3659.0
75°	2681.2	2764.3	3087.8	3627.4	4472.2	4742.7	4190.6	3408.3	2935.6	2779.0	2754.8
77.5°	896.2	960.2	1247.6	2056.3	3048.8	3455.4	3053.2	2229.1	1577.0	1270.4	1276.3
80°	237.5	234.5	303.6	565.3	1317.5	2001.2	1533.6	755.0	413.2	299.2	283.8
82.5°	85.3	95.6	122.8	156.6	349.2	621.9	438.9	211.7	155.1	114.7	111.0
85°	37.5	36.7	52.9	62.5	87.5	116.2	103.0	89.7	78.7	52.2	48.5
87.5°	8.1	8.1	12.5	9.6	15.4	15.4	19.1	22.8	23.5	15.4	12.5
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)