

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: P646737

Luminaire Tested: **GALN-SA1C-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5560.1 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

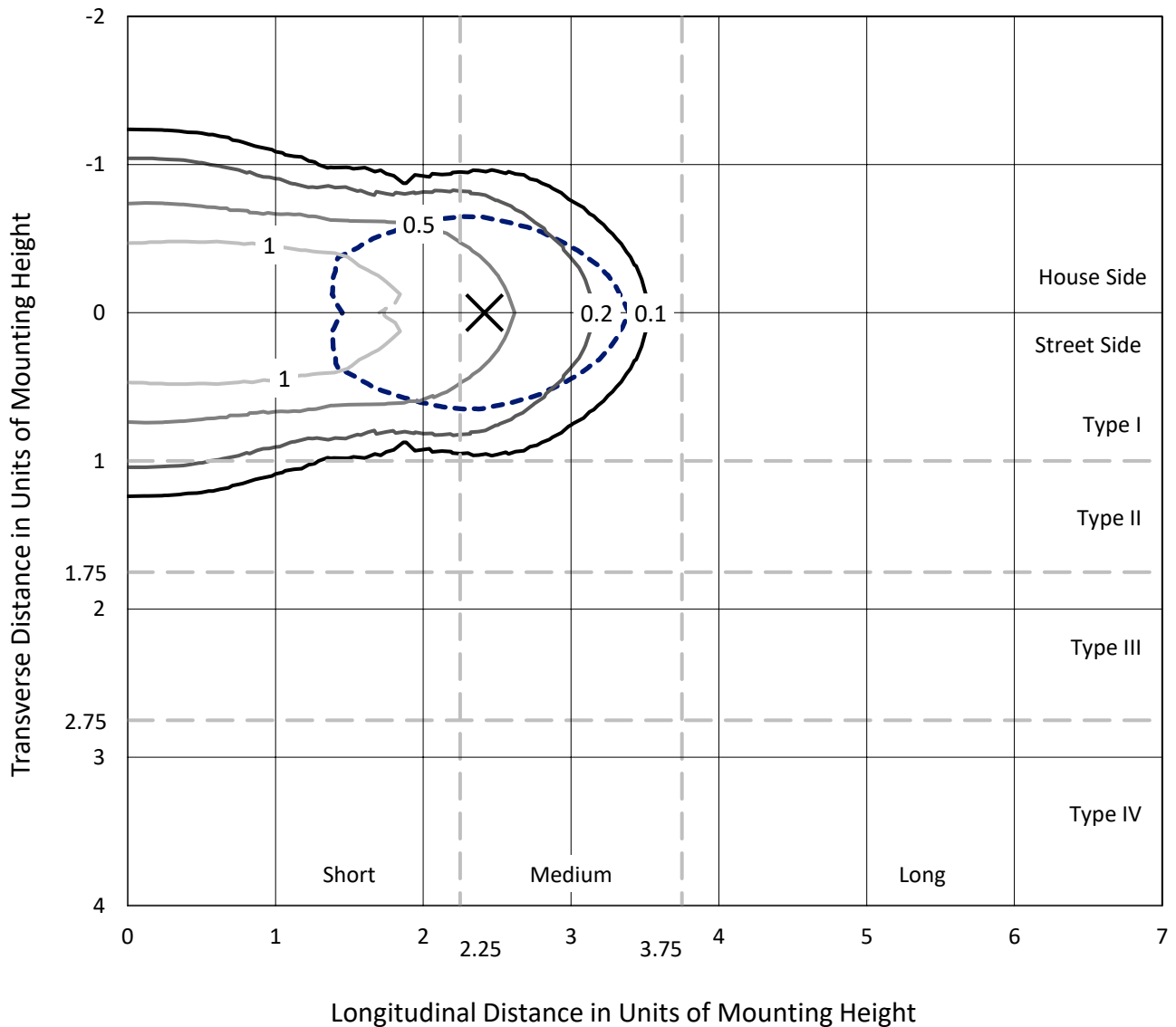
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

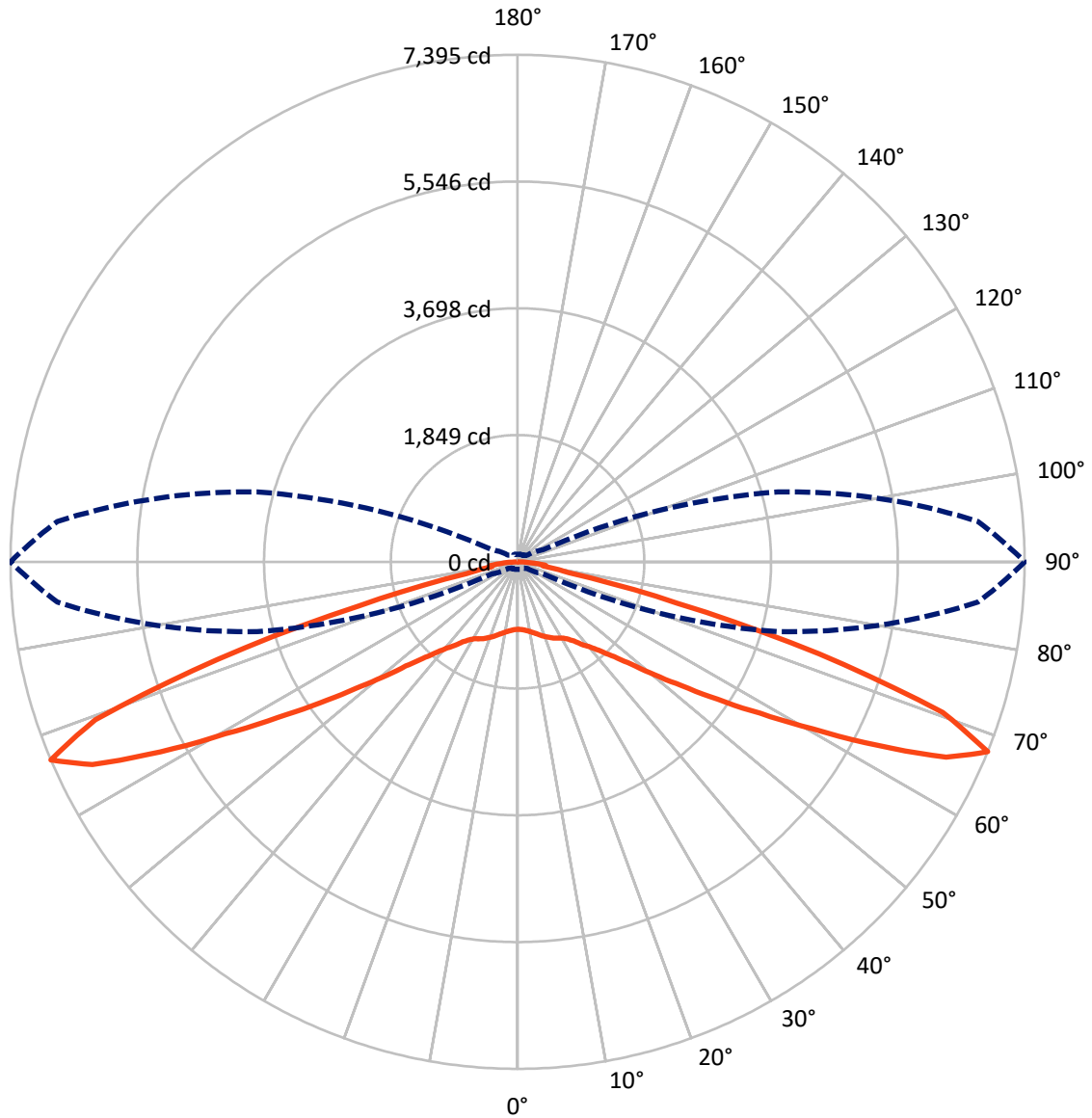
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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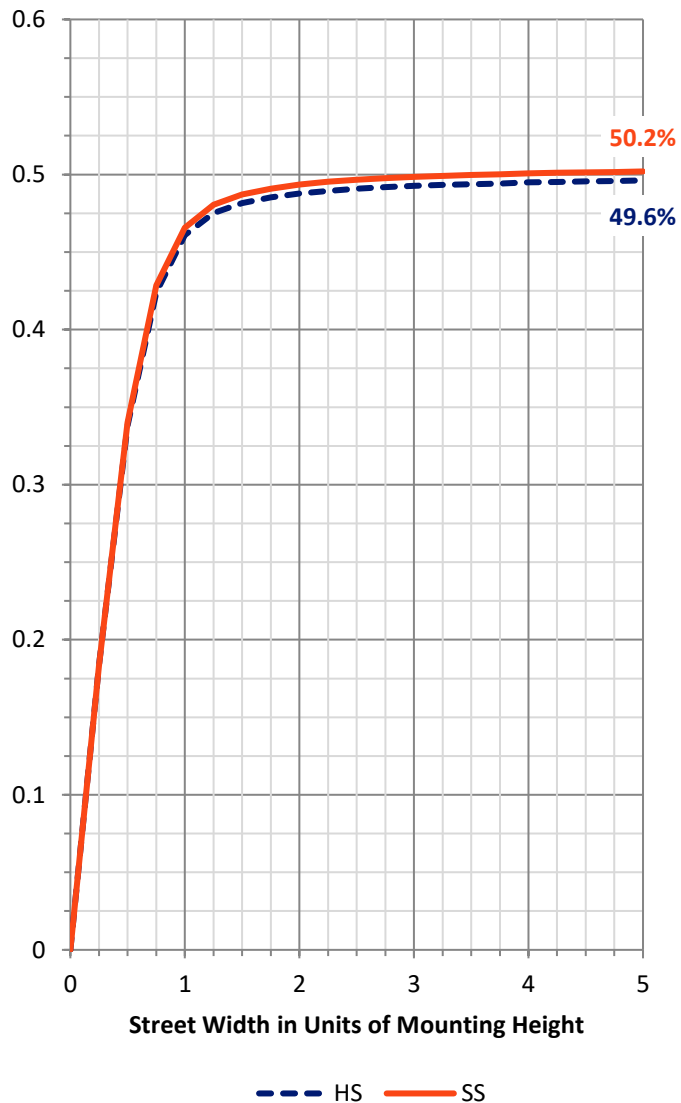
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2780.0	0.0	2780.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2780.0	0.0	2780.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5560.1	0.0	5560.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	1.8
10°-20°	314.0	5.6
20°-30°	525.5	9.5
30°-40°	711.9	12.8
40°-50°	901.8	16.2
50°-60°	1126.6	20.3
60°-70°	1324.2	23.8
70°-80°	506.6	9.1
80°-90°	51.3	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°	5560.1	100.0
0°-180°	5560.1	100.0

Coefficient of Utilization



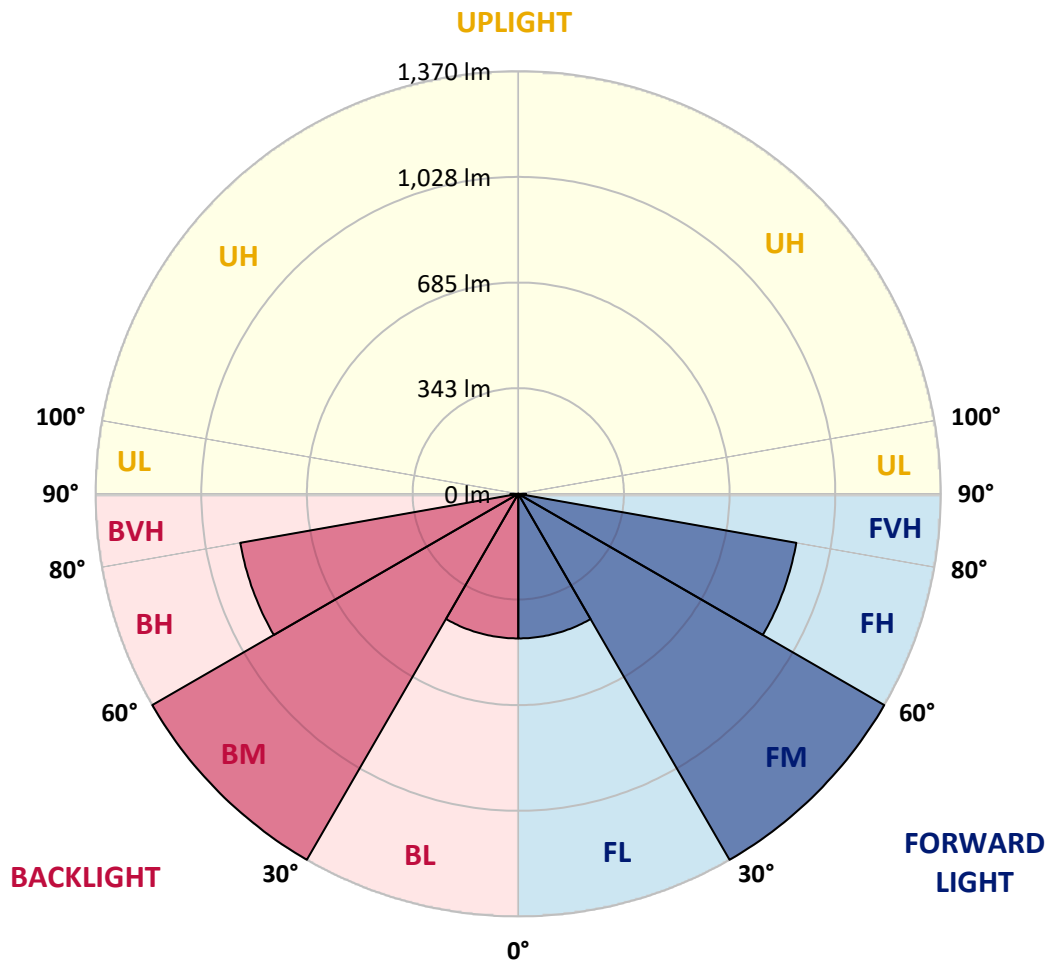
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.8	8.4			
FM (30°-60°)	1370.2	24.6			
FH (60°-80°)	915.4	16.5			G1/1800
FVH (80°-90°)	25.7	0.5			G1/100
BL (0°-30°)	468.8	8.4	B1/500		
BM (30°-60°)	1370.2	24.6	B2/2500		
BH (60°-80°)	915.4	16.5	B2/1000		G2/1000
BVH (80°-90°)	25.7	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3
2.5°	996.9	996.3	996.6	996.3	997.2	996.6	992.9	989.9	987.4	987.7	986.7
5°	1018.2	1018.4	1018.8	1017.3	1019.4	1018.2	1012.3	1007.4	1002.5	1000.6	1000.0
7.5°	1035.8	1037.2	1038.2	1039.7	1043.4	1043.4	1040.4	1033.2	1022.5	1016.3	1016.0
10°	1053.3	1054.5	1057.3	1062.2	1068.3	1074.2	1072.9	1063.5	1049.6	1039.1	1036.6
12.5°	1059.4	1061.0	1070.2	1084.4	1098.2	1109.6	1109.6	1101.9	1084.1	1068.1	1063.5
15°	1037.9	1040.7	1057.3	1087.4	1123.8	1148.7	1154.3	1143.5	1124.4	1099.8	1094.2
17.5°	995.1	1001.8	1026.2	1070.8	1131.2	1182.9	1198.9	1193.7	1169.0	1137.6	1131.2
20°	949.2	956.6	982.4	1041.5	1125.0	1202.9	1249.4	1250.6	1220.1	1174.6	1165.0
22.5°	898.7	904.3	937.5	1006.8	1106.5	1207.5	1292.8	1314.0	1272.8	1211.5	1198.0
25°	842.0	848.2	883.0	957.8	1071.8	1202.3	1332.5	1379.3	1327.9	1250.9	1233.7
27.5°	787.9	790.4	827.6	903.7	1025.9	1188.8	1361.8	1439.4	1388.9	1283.6	1261.7
30°	735.9	741.7	774.6	849.8	973.2	1162.3	1387.0	1507.7	1454.4	1317.7	1289.8
32.5°	680.7	687.8	723.5	799.6	920.6	1122.6	1402.4	1582.5	1545.9	1373.1	1343.3
35°	627.8	632.4	668.4	742.3	869.1	1076.4	1405.2	1666.9	1663.8	1457.2	1417.5
37.5°	573.6	580.4	616.7	687.5	814.6	1027.4	1391.3	1756.5	1806.1	1573.9	1531.1
40°	521.6	527.4	563.1	634.5	752.8	967.7	1358.4	1838.4	1972.0	1694.0	1633.3
42.5°	464.9	466.4	505.6	578.2	692.1	898.4	1311.0	1911.4	2157.0	1855.0	1779.6
45°	400.6	404.6	440.9	512.3	622.6	820.8	1246.6	1971.7	2391.7	2078.2	1975.4
47.5°	336.2	339.6	372.9	443.3	546.5	731.9	1147.5	2024.7	2632.4	2361.8	2226.9
50°	273.4	275.2	302.3	364.9	460.9	638.2	1024.6	2041.6	2904.6	2763.3	2591.2
52.5°	216.1	218.9	239.5	288.5	369.5	527.7	891.9	1999.7	3222.4	3239.3	2996.6
55°	175.2	176.1	191.5	227.5	288.8	411.9	731.9	1883.0	3564.1	3849.1	3539.8
57.5°	150.9	151.5	160.1	180.1	222.3	310.7	567.8	1662.3	3871.1	4563.8	4166.0
60°	137.0	137.3	142.3	153.9	176.1	238.3	406.7	1350.7	4174.0	5359.0	4944.3
62.5°	128.4	128.4	131.8	138.3	149.0	182.9	294.6	974.4	4381.5	6166.0	5903.7
65°	120.1	120.1	122.5	127.2	133.0	149.6	217.7	635.5	4376.3	6753.8	6868.6
67.5°	110.6	110.6	112.4	117.0	120.3	128.7	168.1	416.2	3931.1	6740.8	7395.1
70°	99.1	99.1	101.6	105.6	108.4	113.6	132.7	284.8	2887.9	5755.6	6576.7
72.5°	87.8	88.1	89.6	93.6	95.8	98.8	110.2	199.5	1771.5	3919.1	4598.6
75°	75.1	75.7	77.3	81.3	83.2	84.3	92.9	142.3	896.2	2113.0	2405.8
77.5°	60.7	61.9	62.8	67.1	68.4	70.2	76.7	102.8	393.5	759.3	766.0
80°	44.3	45.9	48.6	52.6	53.6	54.8	58.5	73.0	178.3	346.7	376.5
82.5°	32.7	34.8	31.4	36.6	36.6	35.1	41.3	48.9	81.9	343.3	410.7
85°	17.9	18.2	16.3	18.8	20.0	19.7	21.8	24.0	39.7	229.0	236.2
87.5°	4.3	4.6	4.9	5.9	7.0	7.0	7.7	6.8	12.9	74.2	42.5
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)