

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: P450815

Luminaire Tested: **GALN-SA1C-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450815
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-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5220 lumens
Efficiency: N/A
Efficacy: 91.6 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

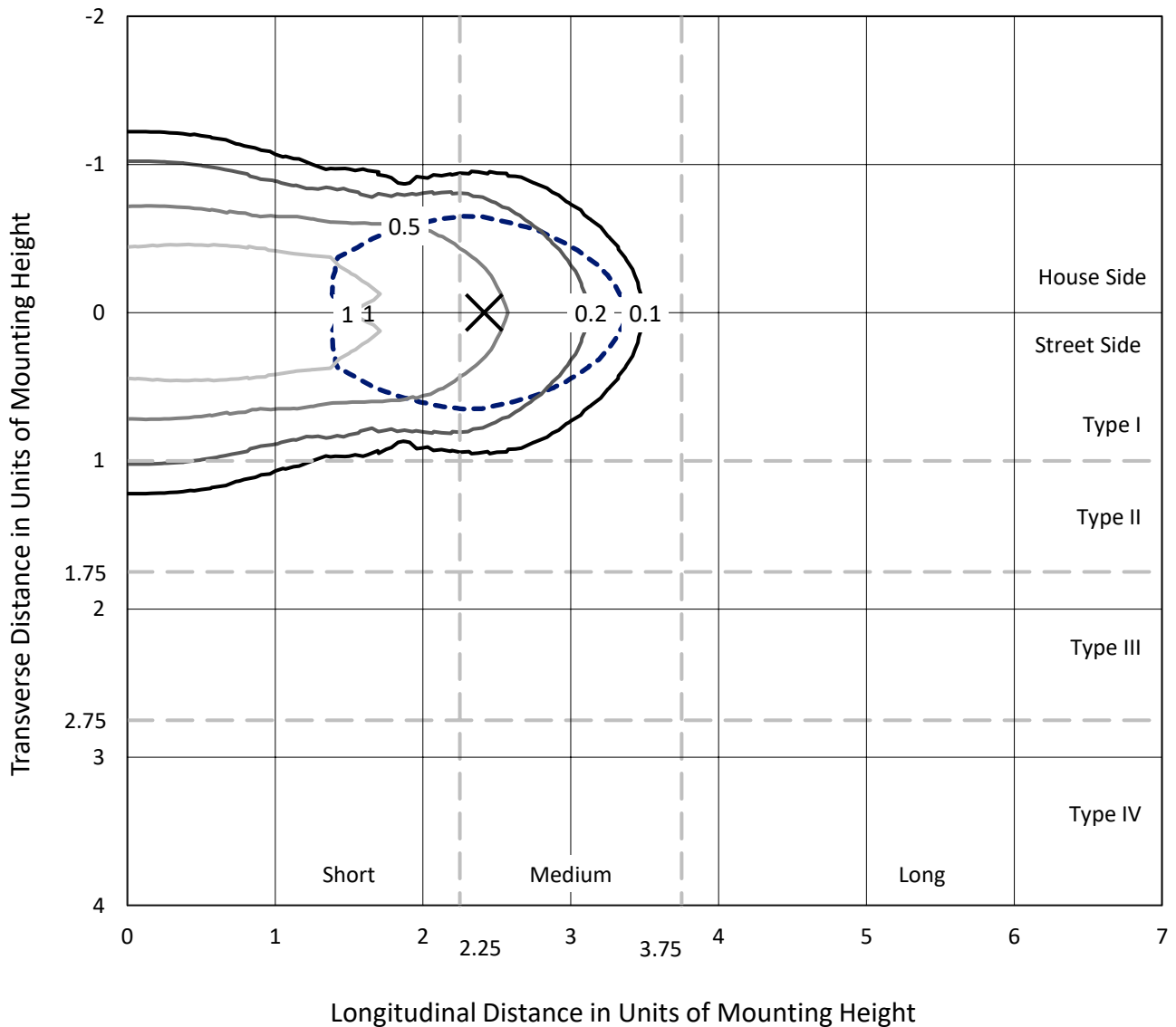
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

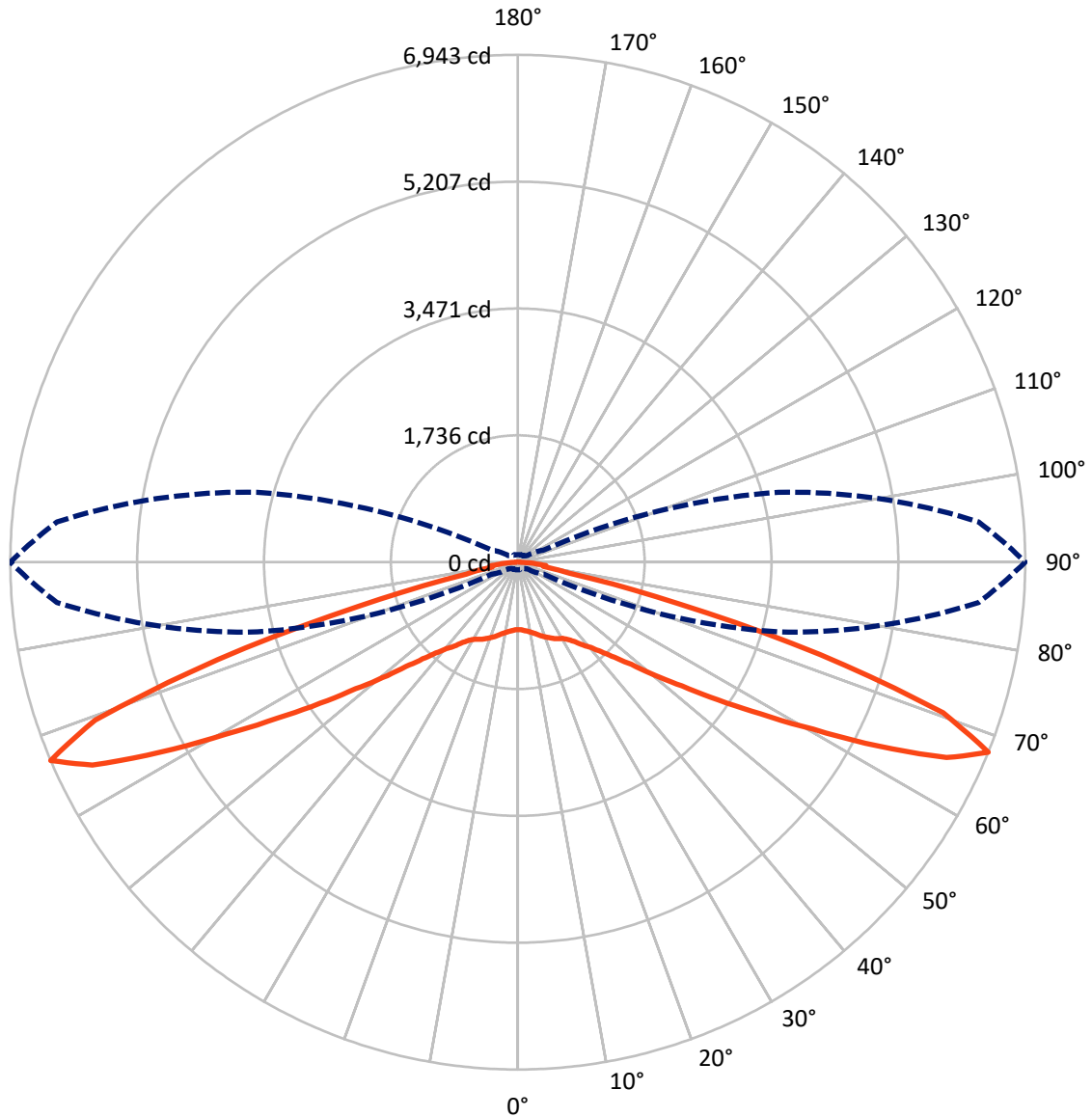
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	2610.0	0.0	2610.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2610.0	0.0	2610.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5220.0	0.0	5220.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	1.8
10°-20°	294.8	5.6
20°-30°	493.4	9.5
30°-40°	668.4	12.8
40°-50°	846.6	16.2
50°-60°	1057.7	20.3
60°-70°	1243.2	23.8
70°-80°	475.6	9.1
80°-90°	48.2	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°	5220.0	100.0
0°-180°	5220.0	100.0

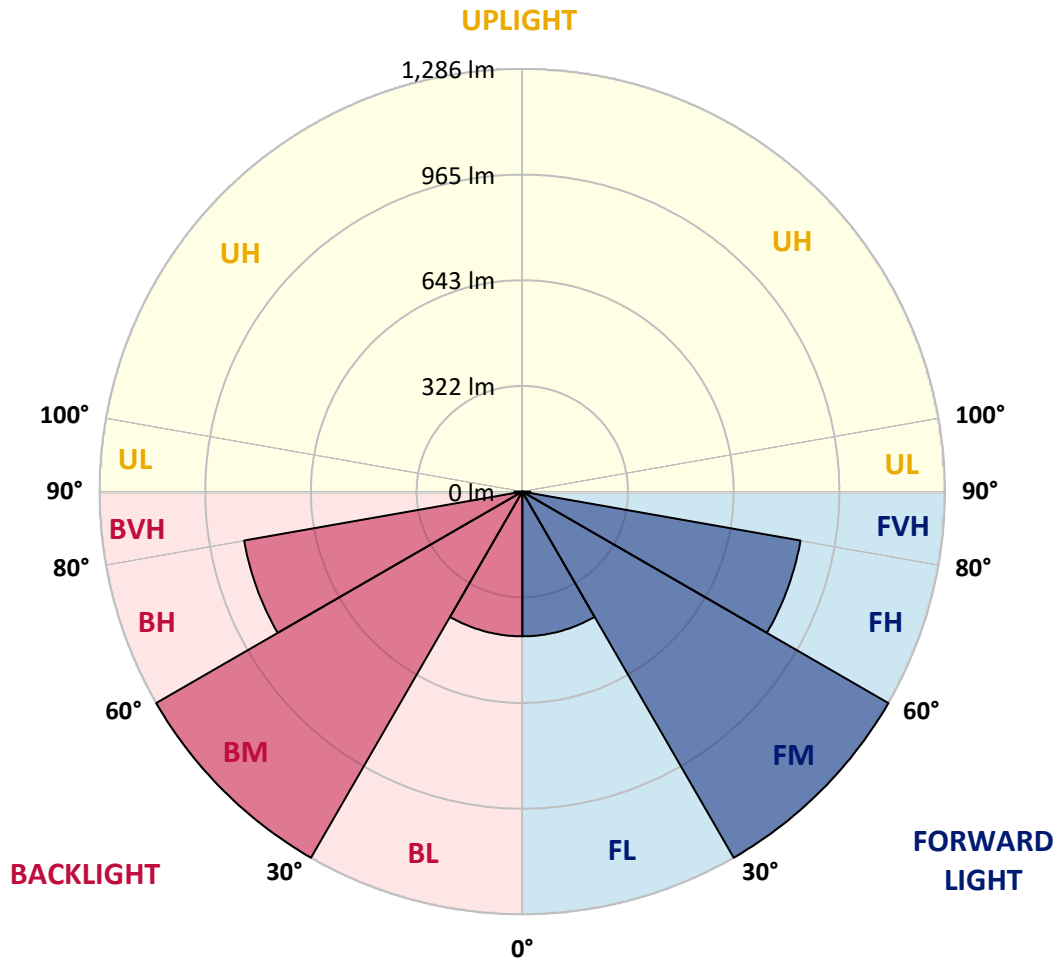


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.1	8.4			
FM	(30°-60°)	1286.3	24.6			
FH	(60°-80°)	859.4	16.5			G1/1800
FVH	(80°-90°)	24.1	0.5			G1/100
BL	(0°-30°)	440.1	8.4	B1/500		
BM	(30°-60°)	1286.3	24.6	B2/2500		
BH	(60°-80°)	859.4	16.5	B2/1000		G2/1000
BVH	(80°-90°)	24.1	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°	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1
2.5°	936.0	935.4	935.7	935.4	936.2	935.7	932.2	929.3	927.0	927.3	926.4
5°	955.9	956.2	956.5	955.0	957.1	955.9	950.4	945.8	941.2	939.4	938.8
7.5°	972.4	973.8	974.7	976.1	979.6	979.6	976.7	970.1	959.9	954.2	953.9
10°	988.9	990.0	992.6	997.2	1003.0	1008.5	1007.3	998.4	985.4	975.6	973.2
12.5°	994.6	996.1	1004.7	1018.0	1031.1	1041.7	1041.7	1034.5	1017.8	1002.7	998.4
15°	974.4	977.0	992.6	1020.9	1055.0	1078.5	1083.7	1073.5	1055.6	1032.5	1027.3
17.5°	934.2	940.6	963.4	1005.3	1062.0	1110.5	1125.6	1120.7	1097.5	1068.1	1062.0
20°	891.2	898.1	922.4	977.9	1056.2	1129.3	1173.0	1174.1	1145.5	1102.7	1093.8
22.5°	843.7	848.9	880.2	945.2	1038.9	1133.7	1213.7	1233.7	1194.9	1137.4	1124.7
25°	790.6	796.3	829.0	899.2	1006.2	1128.8	1251.0	1295.0	1246.7	1174.4	1158.2
27.5°	739.7	742.0	777.0	848.4	963.1	1116.0	1278.5	1351.3	1303.9	1205.1	1184.5
30°	690.8	696.3	727.3	797.8	913.7	1091.2	1302.2	1415.5	1365.5	1237.1	1210.8
32.5°	639.1	645.7	679.3	750.7	864.3	1053.9	1316.6	1485.7	1451.3	1289.2	1261.1
35°	589.4	593.7	627.5	696.9	816.0	1010.5	1319.2	1564.9	1562.0	1368.1	1330.8
37.5°	538.5	544.9	579.0	645.5	764.8	964.6	1306.2	1649.0	1695.6	1477.6	1437.5
40°	489.7	495.1	528.7	595.7	706.7	908.5	1275.3	1725.9	1851.4	1590.4	1533.4
42.5°	436.5	437.9	474.6	542.8	649.8	843.5	1230.8	1794.4	2025.1	1741.5	1670.7
45°	376.1	379.8	413.9	481.0	584.5	770.6	1170.4	1851.1	2245.4	1951.1	1854.6
47.5°	315.6	318.8	350.0	416.2	513.1	687.1	1077.3	1900.8	2471.4	2217.3	2090.7
50°	256.7	258.4	283.9	342.5	432.7	599.2	962.0	1916.7	2726.9	2594.3	2432.7
52.5°	202.9	205.5	224.9	270.8	346.9	495.4	837.4	1877.4	3025.2	3041.1	2813.4
55°	164.5	165.3	179.8	213.6	271.1	386.8	687.1	1767.8	3346.1	3613.7	3323.2
57.5°	141.6	142.2	150.3	169.1	208.7	291.7	533.0	1560.6	3634.3	4284.6	3911.2
60°	128.6	128.9	133.5	144.5	165.3	223.7	381.8	1268.1	3918.7	5031.3	4641.9
62.5°	120.5	120.5	123.7	129.8	139.9	171.7	276.6	914.9	4113.5	5788.9	5542.6
65°	112.7	112.7	115.0	119.4	124.9	140.5	204.4	596.6	4108.6	6340.7	6448.5
67.5°	103.8	103.8	105.5	109.8	113.0	120.8	157.8	390.8	3690.6	6328.5	6942.8
70°	93.1	93.1	95.4	99.1	101.7	106.7	124.6	267.4	2711.3	5403.6	6174.5
72.5°	82.4	82.7	84.1	87.9	89.9	92.8	103.5	187.3	1663.2	3679.4	4317.3
75°	70.5	71.1	72.6	76.3	78.0	79.2	87.3	133.5	841.4	1983.8	2258.7
77.5°	56.9	58.1	59.0	63.0	64.2	65.9	72.0	96.5	369.4	712.8	719.2
80°	41.6	43.1	45.7	49.4	50.3	51.5	54.9	68.5	167.4	325.5	353.5
82.5°	30.6	32.7	29.5	34.4	34.4	33.0	38.7	46.0	76.9	322.3	385.6
85°	16.8	17.1	15.3	17.6	18.8	18.5	20.5	22.5	37.3	215.1	221.7
87.5°	4.0	4.3	4.6	5.5	6.6	6.6	7.2	6.4	12.1	69.7	39.9
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)