

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: P450583

Luminaire Tested: **GALN-SA1B-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450583
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-SA1B-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4225 lumens
Efficiency: N/A
Efficacy: 96.0 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

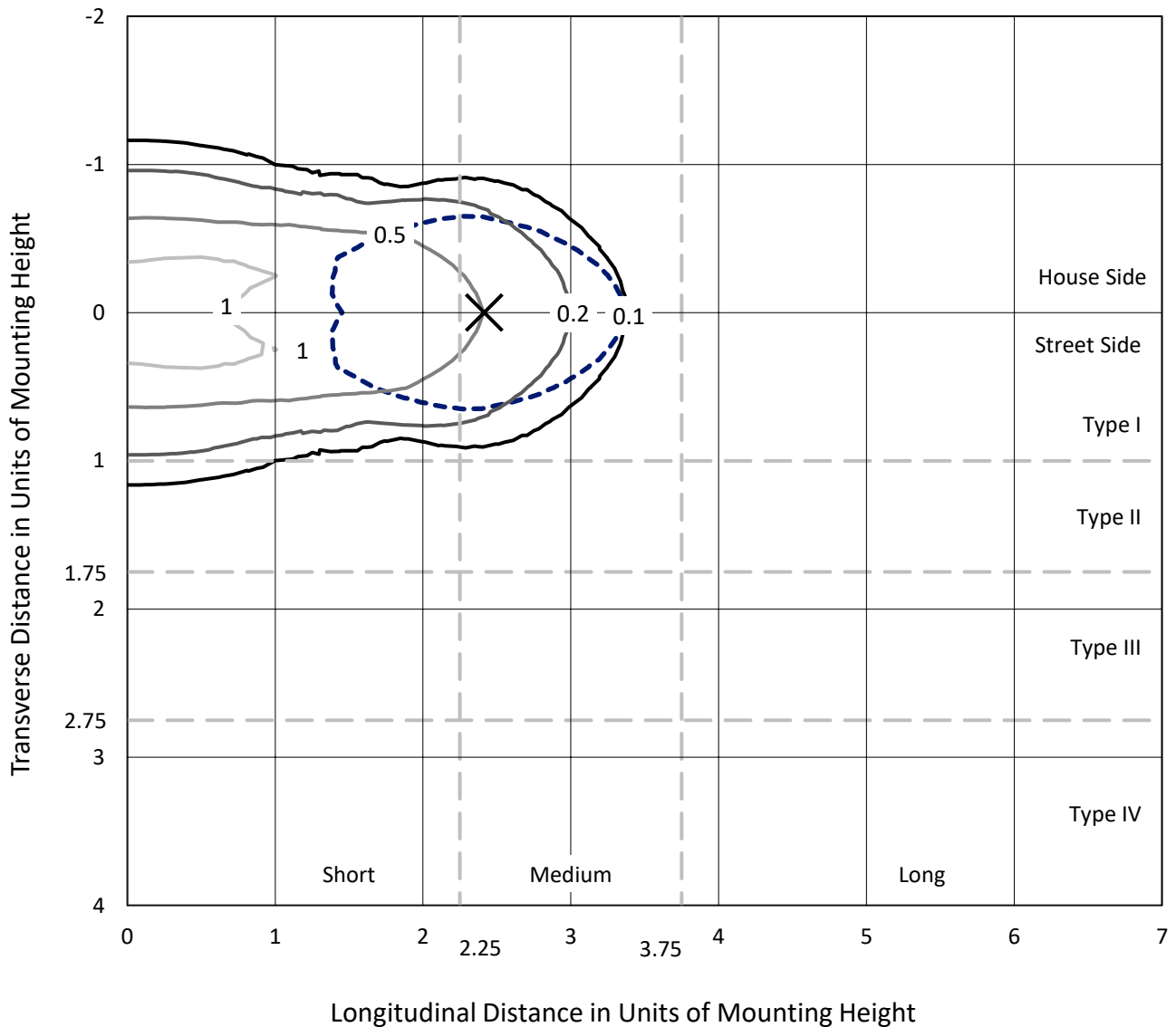
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

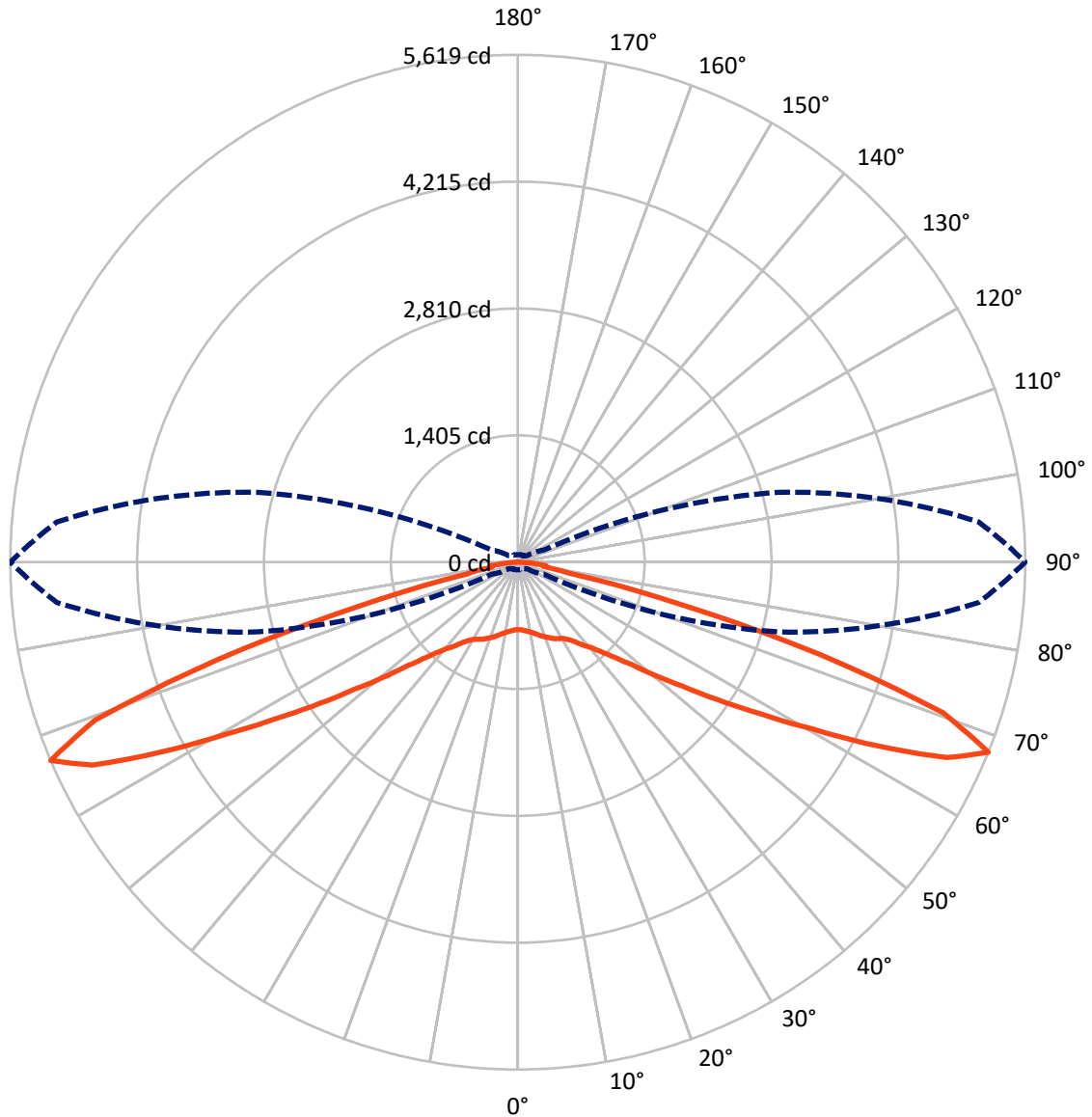
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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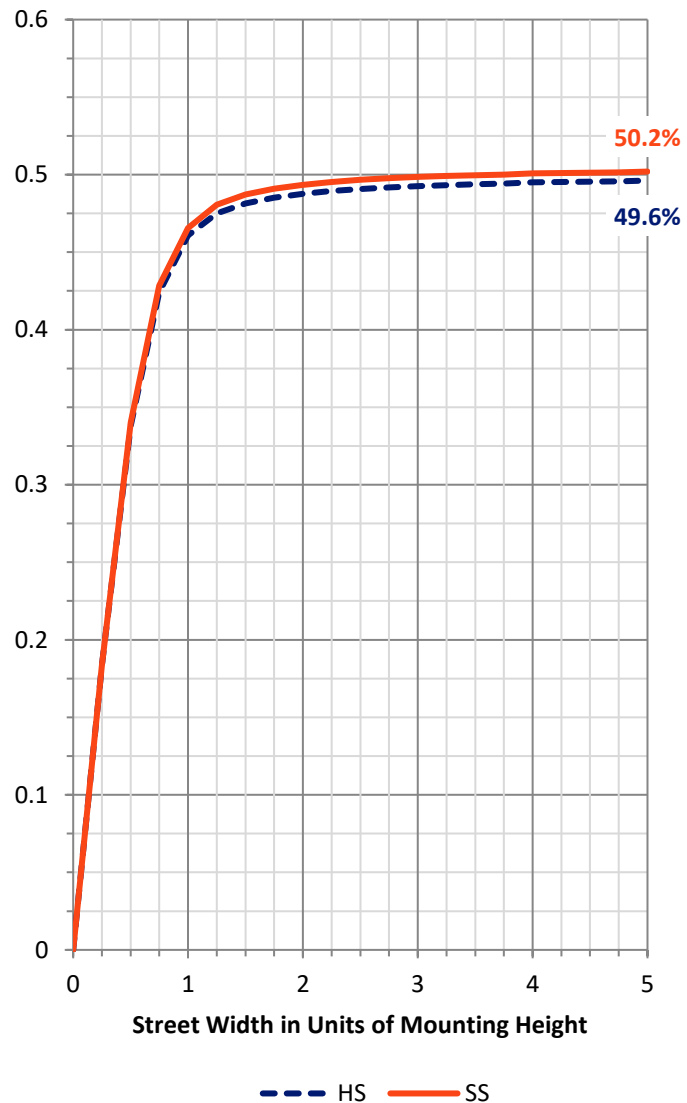
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2112.5	0.0	2112.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2112.5	0.0	2112.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4225.0	0.0	4225.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.8
10°-20°	238.6	5.6
20°-30°	399.3	9.5
30°-40°	541.0	12.8
40°-50°	685.3	16.2
50°-60°	856.1	20.3
60°-70°	1006.3	23.8
70°-80°	384.9	9.1
80°-90°	39.0	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°	4225.0	100.0
0°-180°	4225.0	100.0



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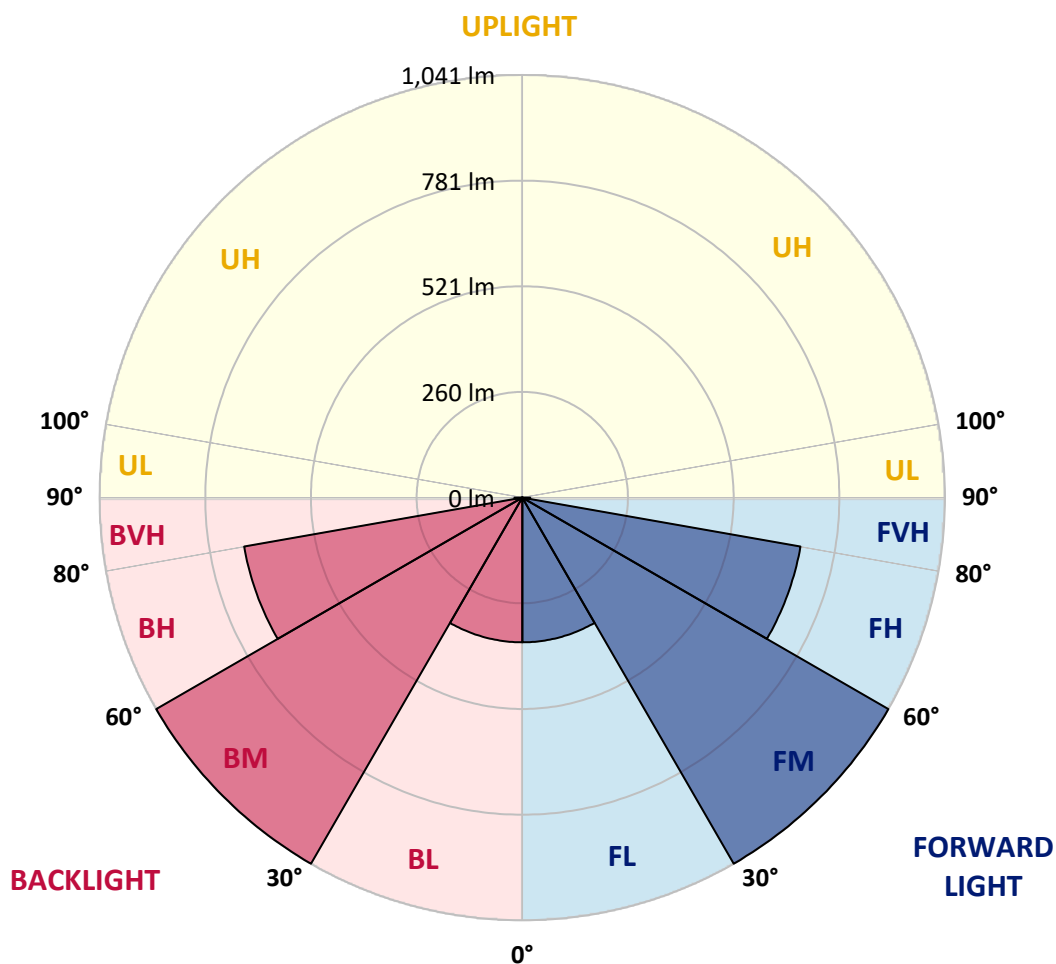
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.2	8.4			
FM (30°-60°)	1041.2	24.6			
FH (60°-80°)	695.6	16.5			G1/1800
FVH (80°-90°)	19.5	0.5			G1/100
BL (0°-30°)	356.2	8.4	B1/500		
BM (30°-60°)	1041.2	24.6	B2/2500		
BH (60°-80°)	695.6	16.5	B2/1000		G2/1000
BVH (80°-90°)	19.5	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°	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
2.5°	757.5	757.1	757.3	757.1	757.8	757.3	754.5	752.2	750.3	750.5	749.8
5°	773.7	773.9	774.2	773.0	774.6	773.7	769.2	765.5	761.8	760.4	759.9
7.5°	787.0	788.2	788.9	790.1	792.9	792.9	790.5	785.2	777.0	772.3	772.1
10°	800.4	801.3	803.4	807.1	811.8	816.3	815.3	808.1	797.6	789.6	787.7
12.5°	805.0	806.2	813.2	824.0	834.5	843.2	843.2	837.3	823.8	811.6	808.1
15°	788.7	790.8	803.4	826.3	853.9	872.9	877.1	868.9	854.4	835.7	831.5
17.5°	756.1	761.3	779.8	813.7	859.6	898.9	911.0	907.0	888.3	864.5	859.6
20°	721.3	726.9	746.6	791.5	854.9	914.1	949.4	950.3	927.2	892.5	885.3
22.5°	682.9	687.1	712.4	765.0	840.8	917.6	982.4	998.5	967.2	920.6	910.3
25°	639.9	644.5	671.0	727.8	814.4	913.6	1012.6	1048.1	1009.1	950.6	937.5
27.5°	598.7	600.6	628.9	686.7	779.5	903.3	1034.8	1093.7	1055.4	975.4	958.8
30°	559.2	563.6	588.6	645.7	739.5	883.2	1054.0	1145.7	1105.2	1001.3	980.0
32.5°	517.3	522.7	549.8	607.6	699.5	853.0	1065.7	1202.5	1174.7	1043.4	1020.7
35°	477.0	480.5	507.9	564.1	660.5	817.9	1067.8	1266.6	1264.3	1107.3	1077.1
37.5°	435.9	441.0	468.6	522.4	619.0	780.7	1057.2	1334.7	1372.4	1196.0	1163.5
40°	396.3	400.8	427.9	482.2	572.0	735.3	1032.2	1396.9	1498.5	1287.2	1241.1
42.5°	353.3	354.4	384.2	439.4	525.9	682.7	996.2	1452.4	1639.1	1409.6	1352.3
45°	304.4	307.4	335.0	389.3	473.1	623.7	947.3	1498.3	1817.4	1579.2	1501.1
47.5°	255.5	258.1	283.3	336.9	415.3	556.1	872.0	1538.5	2000.3	1794.7	1692.2
50°	207.8	209.2	229.7	277.2	350.2	485.0	778.6	1551.4	2207.1	2099.8	1969.0
52.5°	164.2	166.3	182.0	219.2	280.7	401.0	677.8	1519.5	2448.6	2461.4	2277.1
55°	133.1	133.8	145.5	172.9	219.5	313.0	556.1	1430.9	2708.3	2924.9	2689.8
57.5°	114.6	115.1	121.7	136.9	168.9	236.1	431.4	1263.1	2941.5	3467.9	3165.7
60°	104.1	104.3	108.1	117.0	133.8	181.1	309.1	1026.4	3171.7	4072.2	3757.1
62.5°	97.6	97.6	100.1	105.0	113.2	139.0	223.9	740.5	3329.4	4685.4	4486.1
65°	91.2	91.2	93.1	96.6	101.1	113.7	165.4	482.9	3325.4	5132.1	5219.3
67.5°	84.0	84.0	85.4	88.9	91.5	97.8	127.7	316.3	2987.1	5122.2	5619.4
70°	75.3	75.3	77.2	80.2	82.4	86.3	100.8	216.4	2194.5	4373.6	4997.5
72.5°	66.7	66.9	68.1	71.1	72.8	75.1	83.8	151.6	1346.2	2978.0	3494.4
75°	57.1	57.6	58.7	61.8	63.2	64.1	70.7	108.1	681.0	1605.6	1828.1
77.5°	46.1	47.0	47.7	51.0	51.9	53.3	58.3	78.1	299.0	576.9	582.1
80°	33.7	34.9	37.0	40.0	40.7	41.6	44.5	55.4	135.5	263.4	286.1
82.5°	24.8	26.4	23.9	27.8	27.8	26.7	31.4	37.2	62.2	260.9	312.1
85°	13.6	13.8	12.4	14.3	15.2	15.0	16.6	18.2	30.2	174.1	179.4
87.5°	3.3	3.5	3.7	4.4	5.4	5.4	5.8	5.1	9.8	56.4	32.3
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)