

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: P450423

Luminaire Tested: **GALN-SA1B-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5025 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

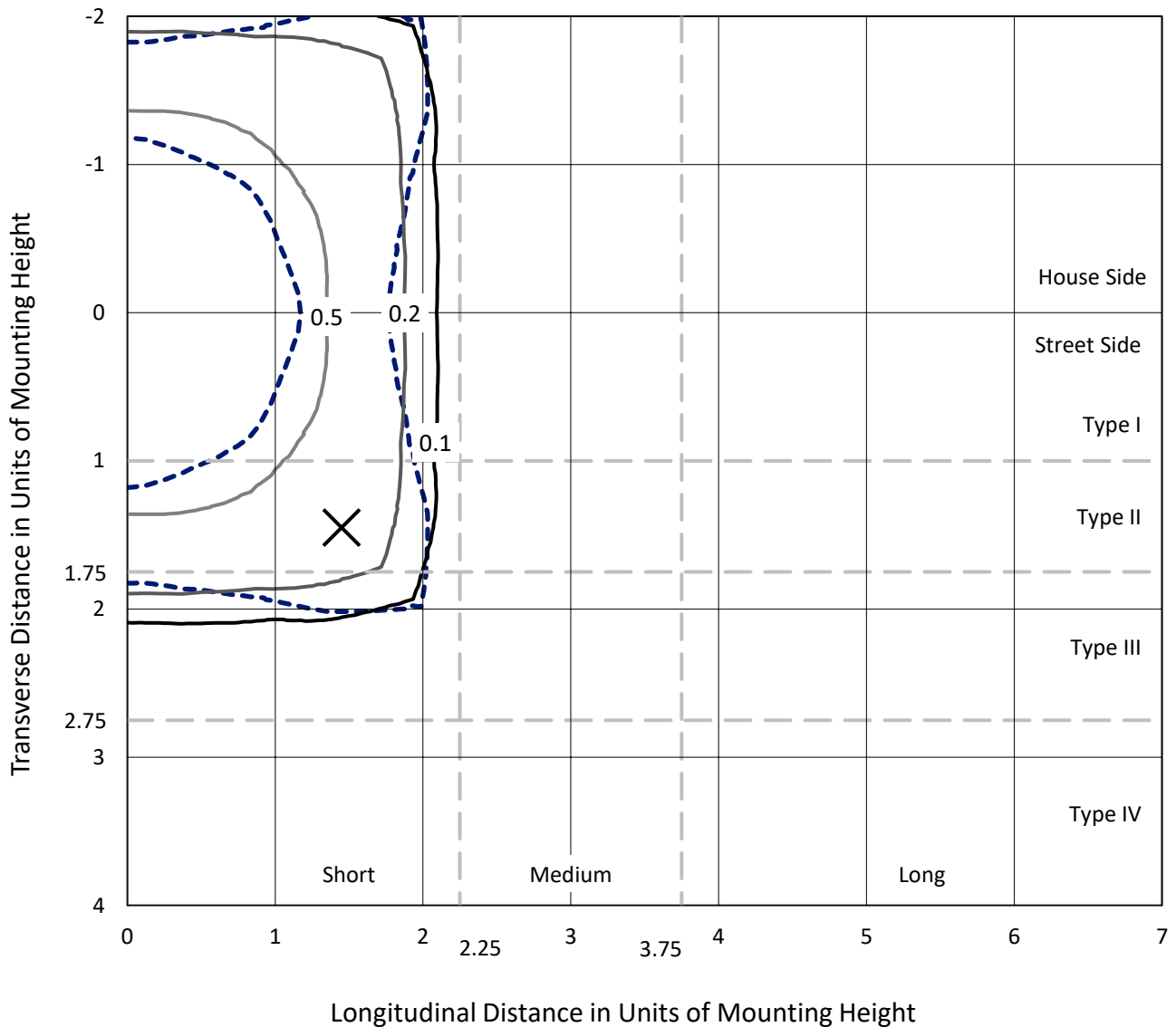
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

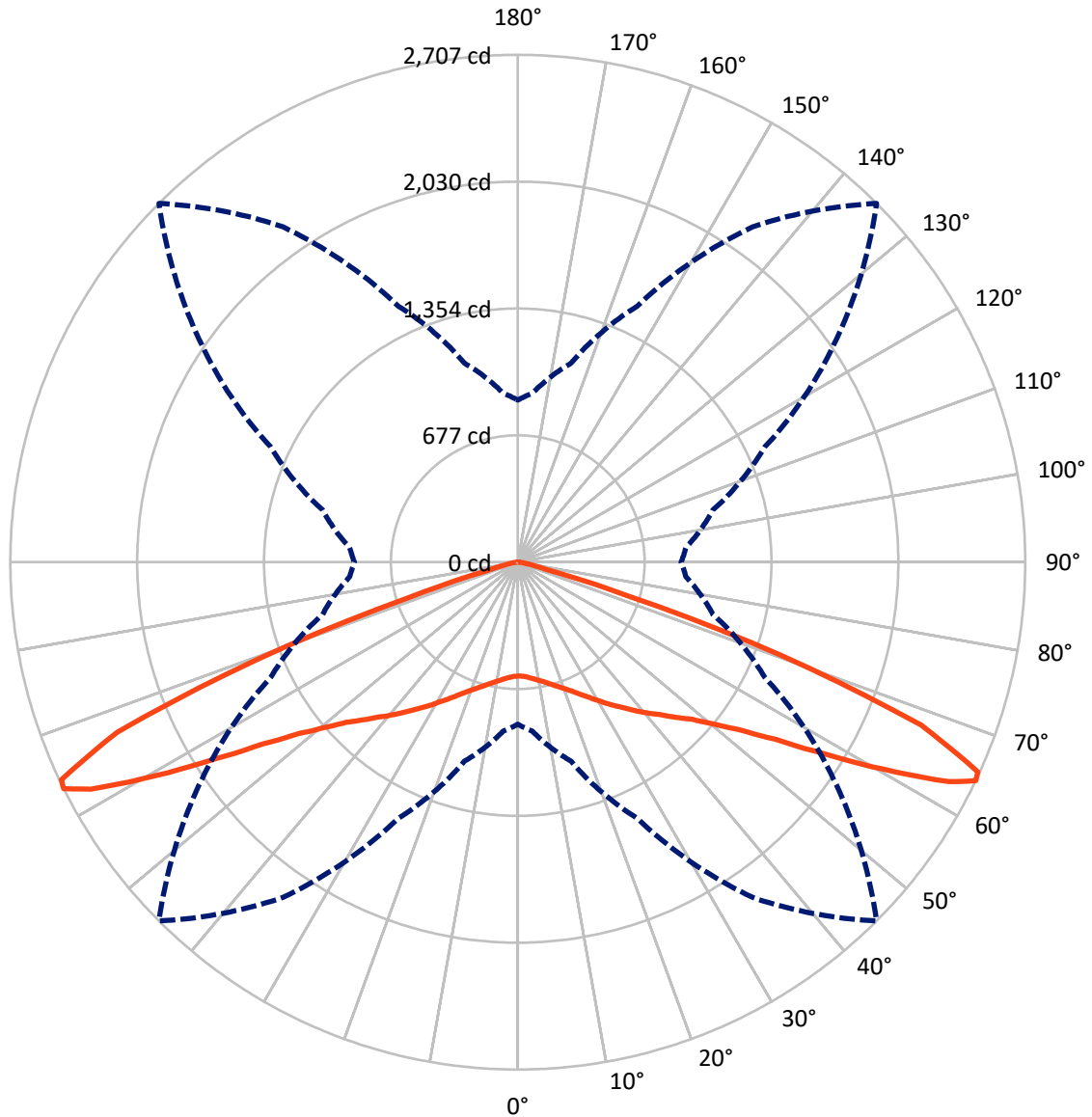
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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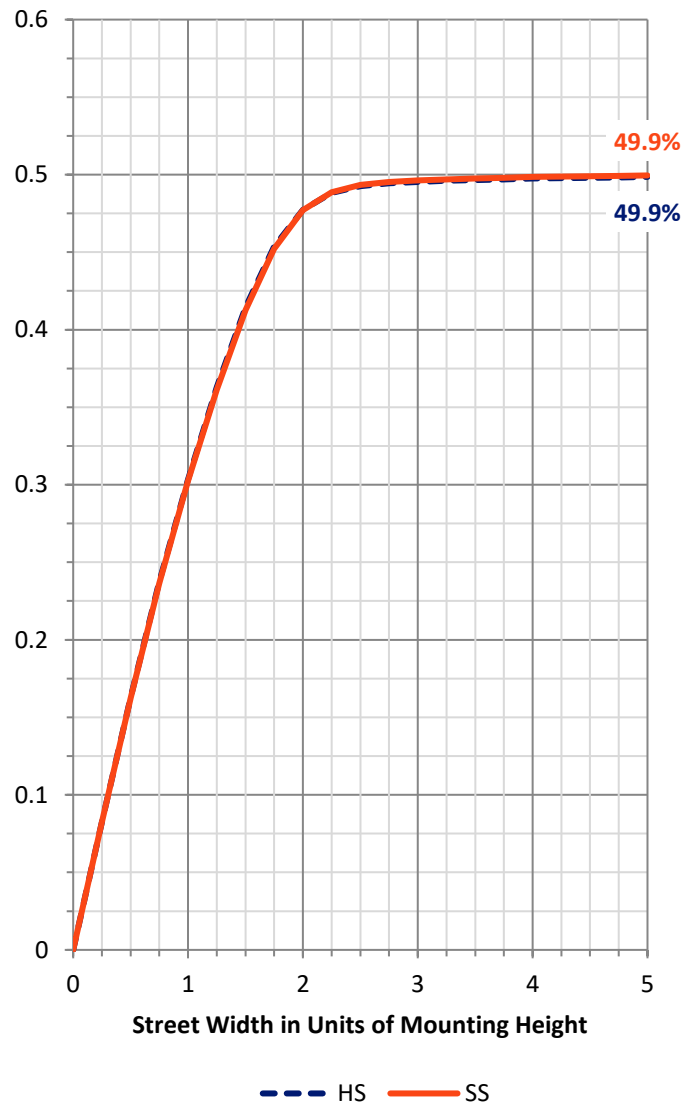
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2512.5	0.0	2512.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2512.5	0.0	2512.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5025.0	0.0	5025.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	1.2
10°-20°	192.5	3.8
20°-30°	363.7	7.2
30°-40°	602.3	12.0
40°-50°	940.4	18.7
50°-60°	1453.8	28.9
60°-70°	1253.6	24.9
70°-80°	142.1	2.8
80°-90°	17.0	0.3
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°	5025.0	100.0
0°-180°	5025.0	100.0



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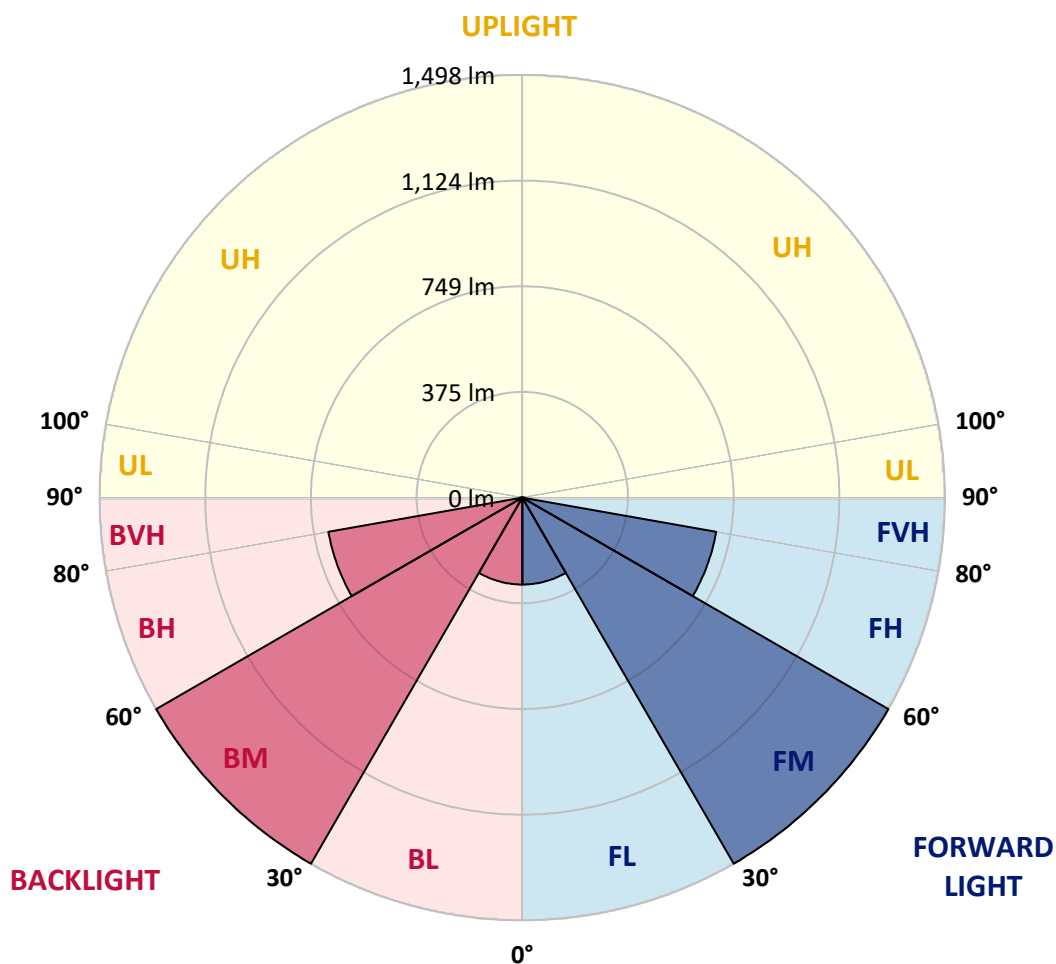
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.9	6.1			
FM (30°-60°)	1498.2	29.8			
FH (60°-80°)	697.8	13.9			G1/1800
FVH (80°-90°)	8.5	0.2			G0/10
BL (0°-30°)	307.9	6.1	B1/500		
BM (30°-60°)	1498.2	29.8	B2/2500		
BH (60°-80°)	697.8	13.9	B2/1000		G1/1800
BVH (80°-90°)	8.5	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4
2.5°	609.8	611.1	610.0	609.8	609.5	609.5	609.5	609.8	610.8	611.6	611.1
5°	617.5	618.5	618.0	617.7	617.5	617.7	617.2	616.9	617.7	617.7	617.5
7.5°	627.1	628.4	627.8	628.4	628.6	628.9	627.6	626.5	626.3	627.1	626.5
10°	640.1	641.2	641.4	641.7	642.2	642.0	640.4	638.5	638.2	638.0	637.7
12.5°	654.7	655.5	655.8	656.9	657.7	657.9	656.1	654.5	651.8	652.3	651.3
15°	671.2	672.8	672.6	674.2	676.3	676.8	675.0	672.3	669.9	668.6	667.8
17.5°	691.5	692.5	692.0	693.6	696.3	697.6	696.0	692.5	690.1	687.2	685.6
20°	715.4	717.3	717.8	717.8	720.2	721.5	719.1	718.1	714.3	712.2	710.9
22.5°	742.6	743.4	745.0	746.6	748.9	748.4	747.6	746.0	742.6	740.7	738.6
25°	773.2	774.0	778.0	781.4	782.2	781.7	780.6	779.8	776.6	772.4	770.8
27.5°	808.8	810.4	815.8	818.9	818.9	819.2	817.1	819.7	812.8	807.8	807.2
30°	853.5	854.6	859.1	862.3	860.7	859.4	858.9	861.5	854.1	845.0	842.9
32.5°	897.7	901.5	905.4	912.4	906.8	904.4	903.8	905.7	897.2	887.1	884.2
35°	945.1	947.8	955.2	961.1	956.0	950.4	952.8	958.7	948.6	935.0	934.5
37.5°	997.5	999.9	1009.5	1015.6	1011.9	1002.3	1006.3	1013.2	1003.1	986.4	982.9
40°	1052.1	1057.2	1069.1	1075.5	1069.4	1056.6	1064.1	1071.5	1062.5	1043.0	1035.3
42.5°	1113.3	1121.3	1138.6	1141.8	1130.1	1112.8	1125.8	1137.8	1131.4	1109.0	1106.1
45°	1184.9	1189.7	1211.0	1217.9	1201.7	1180.1	1196.3	1218.2	1213.4	1187.6	1182.0
47.5°	1265.0	1269.5	1291.6	1302.0	1281.5	1252.5	1281.8	1310.3	1307.3	1279.7	1277.0
50°	1359.8	1360.8	1391.4	1403.1	1382.7	1357.6	1383.7	1419.1	1407.4	1372.0	1371.5
52.5°	1463.6	1464.9	1503.5	1526.1	1514.7	1486.5	1517.3	1538.9	1509.1	1462.8	1459.3
55°	1553.5	1560.2	1612.9	1673.0	1688.7	1668.2	1677.5	1667.4	1594.0	1529.0	1518.9
57.5°	1590.3	1603.3	1683.4	1795.7	1897.9	1928.3	1856.4	1760.1	1627.8	1536.0	1526.1
60°	1500.6	1514.7	1639.0	1852.1	2113.0	2244.7	2042.7	1775.8	1550.9	1421.8	1406.3
62.5°	1201.7	1205.7	1388.5	1719.3	2238.3	2579.5	2121.2	1641.9	1327.0	1151.6	1145.5
64°	864.7	905.7	1099.5	1507.5	2183.5	2707.0	2076.0	1454.2	1077.9	900.4	871.6
65°	646.7	657.9	886.3	1287.4	2086.9	2697.4	1988.1	1274.9	892.7	689.1	657.1
67.5°	244.3	245.7	327.1	641.7	1485.7	2320.8	1517.3	693.6	376.1	272.0	262.2
70°	101.4	103.3	120.0	215.8	638.5	1490.2	731.6	250.2	137.6	111.5	109.9
72.5°	74.3	75.3	80.4	95.8	196.4	611.9	240.6	106.2	80.6	72.1	71.3
75°	58.3	58.8	62.5	70.5	91.6	169.5	100.1	72.9	61.5	55.4	54.8
77.5°	44.4	45.8	48.4	53.8	61.5	80.4	66.3	54.6	47.4	42.3	41.5
80°	30.6	32.2	37.3	39.4	41.3	52.2	45.2	41.3	37.0	30.9	29.0
82.5°	18.9	20.0	25.0	26.9	26.1	29.3	29.0	29.5	26.3	19.2	17.8
85°	9.8	10.4	13.6	14.1	13.0	12.0	14.9	17.3	16.2	10.9	10.6
87.5°	2.1	2.4	2.9	2.7	2.9	2.9	3.7	5.6	5.9	3.7	3.5
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)