

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: P527683

Luminaire Tested: **GALN-SA2D-727-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8408 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

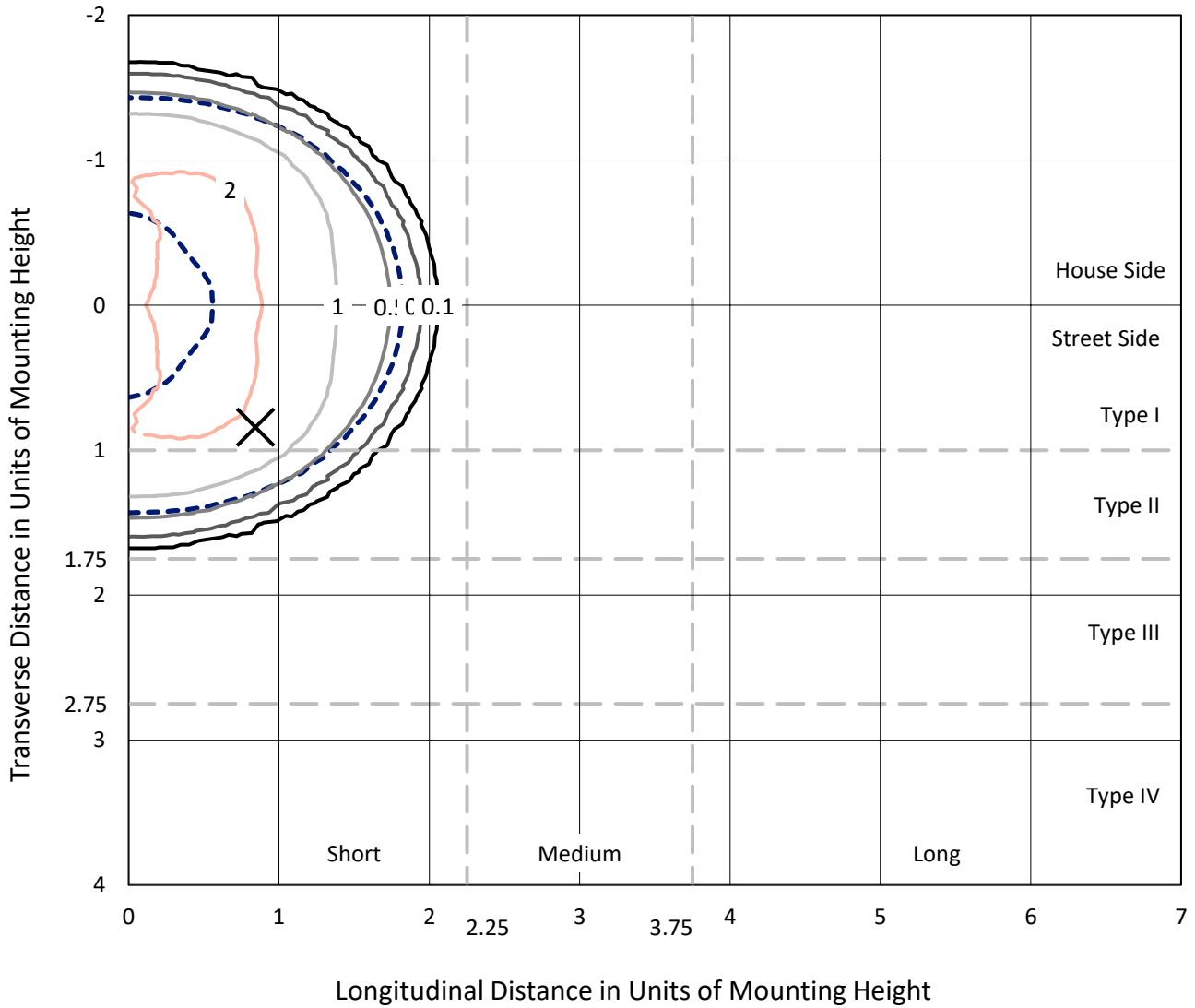
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527683
 CATALOG NUMBER: GALN-SA2D-727-U-RW-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

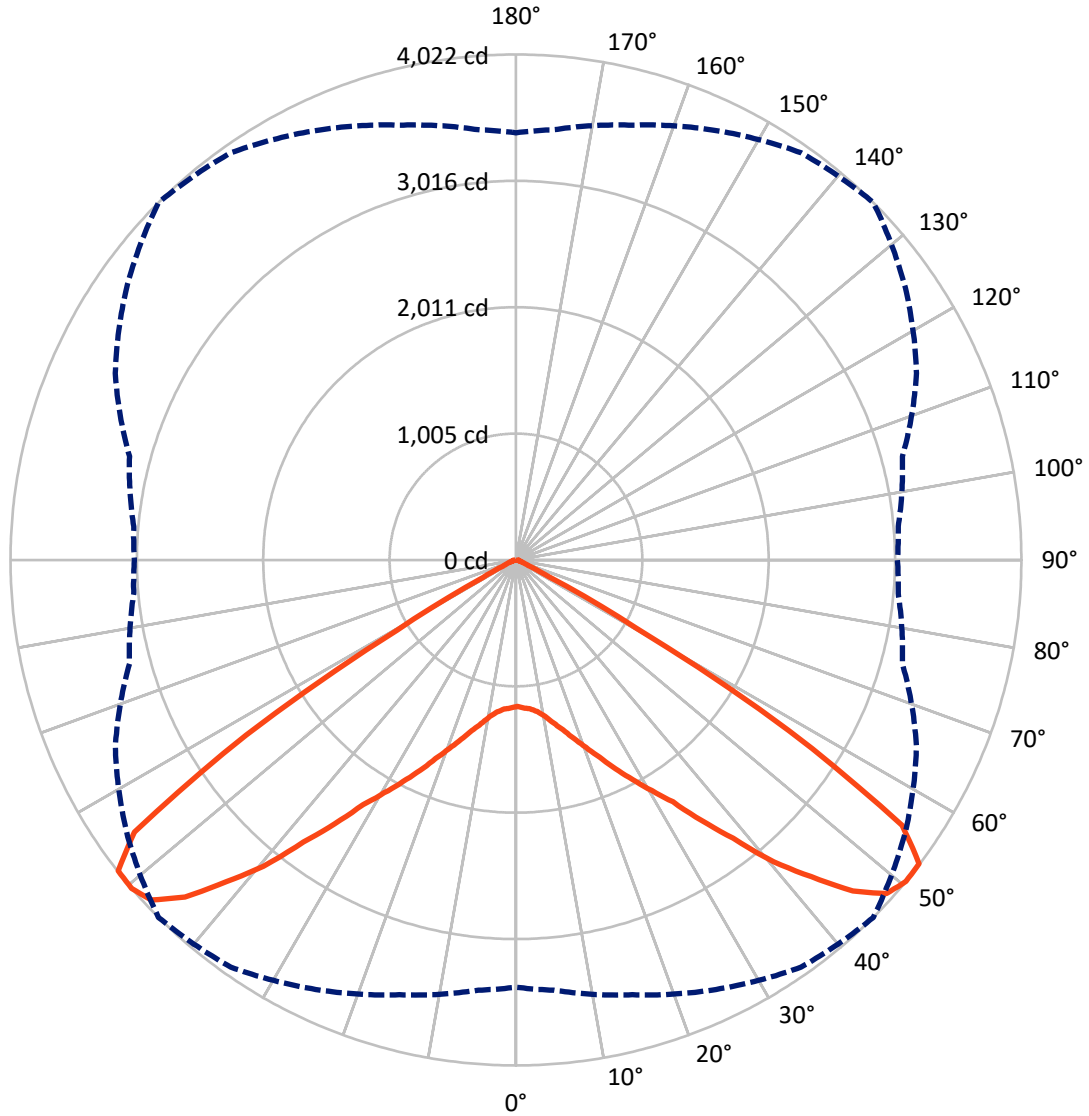
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

REPORT NUMBER: P527683
CATALOG NUMBER: GALN-SA2D-727-U-RW-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P527683

CATALOG NUMBER: GALN-SA2D-727-U-RW-GRSBK

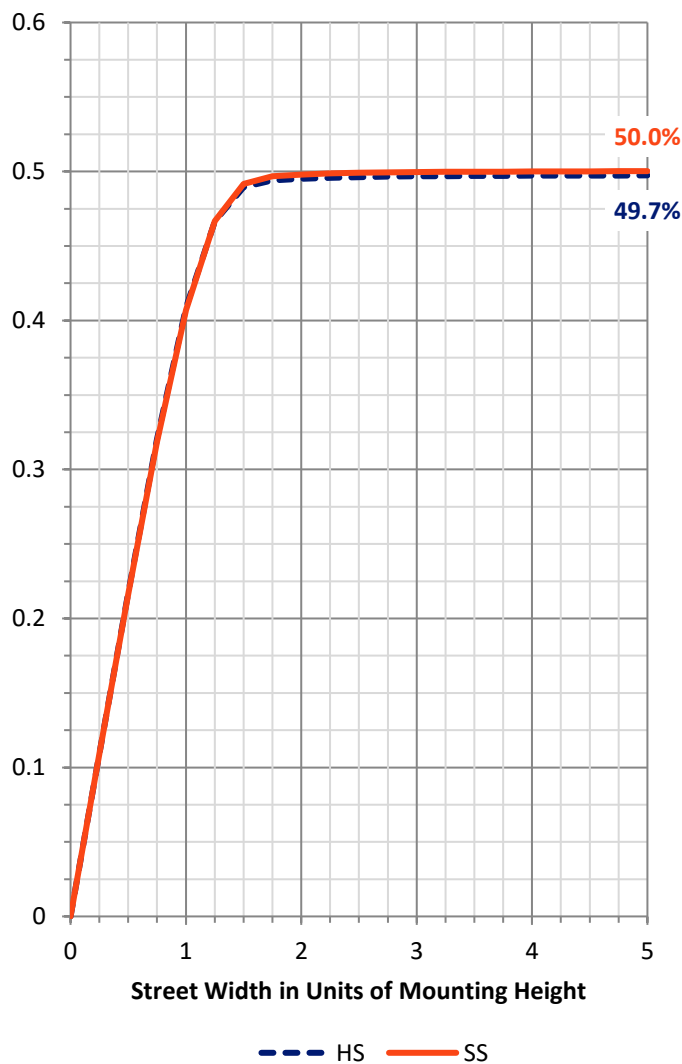
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4204.0	0.0	4204.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4204.0	0.0	4204.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8408.0	0.0	8408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	1.4
10°-20°	399.7	4.8
20°-30°	816.3	9.7
30°-40°	1556.7	18.5
40°-50°	2623.3	31.2
50°-60°	2501.8	29.8
60°-70°	349.2	4.2
70°-80°	33.4	0.4
80°-90°	11.5	0.1
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°	8408.0	100.0
0°-180°	8408.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527683

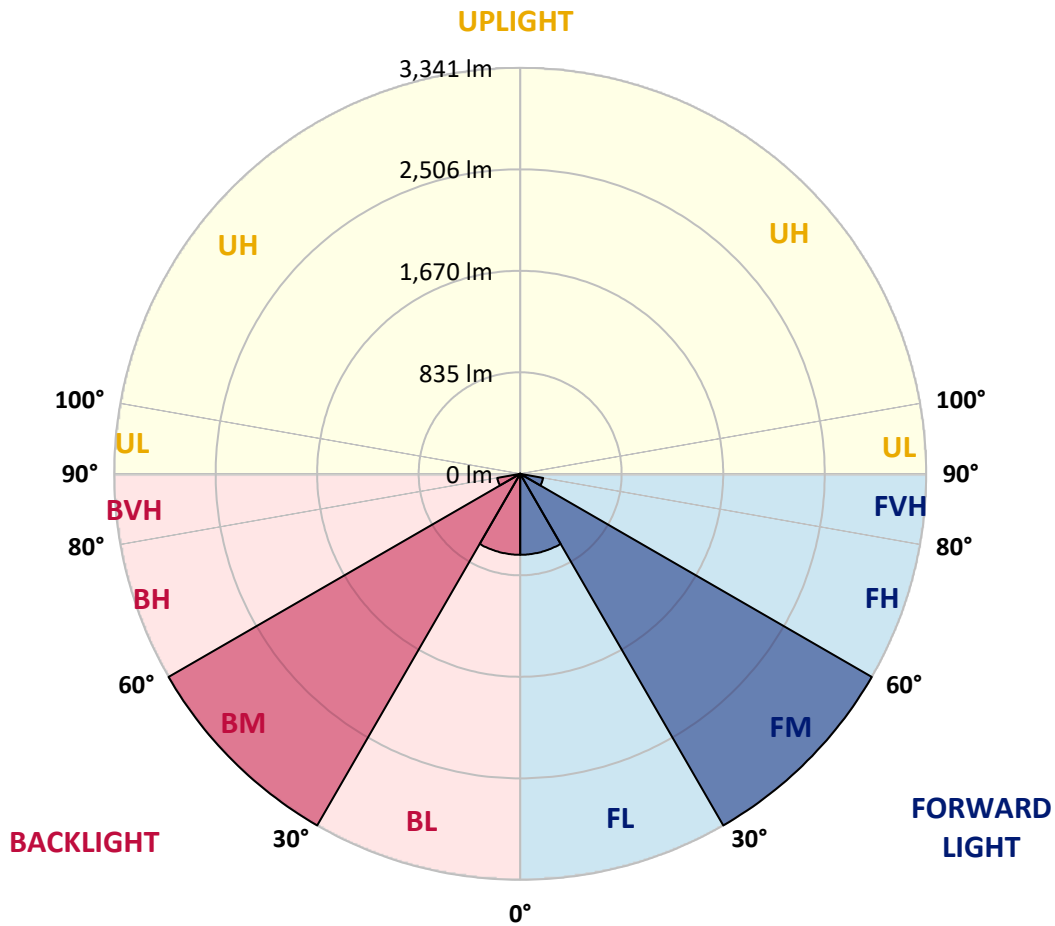
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.0	7.9			
FM (30°-60°)	3340.9	39.7			
FH (60°-80°)	191.3	2.3			G0/660
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	666.0	7.9	B2/1000		
BM (30°-60°)	3340.9	39.7	B3/5000		
BH (60°-80°)	191.3	2.3	B1/500		G0/660
BVH (80°-90°)	5.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1165.7	1165.7	1165.7	1165.7	1165.7	1165.7	1165.7	1165.7	1165.7	1165.7	1165.7
2.5°	1161.4	1161.4	1160.0	1171.3	1165.7	1178.4	1177.0	1181.2	1185.5	1184.1	1195.4
5°	1151.5	1150.1	1150.1	1162.8	1175.6	1189.7	1202.5	1210.9	1225.1	1225.1	1239.2
7.5°	1161.4	1154.4	1164.3	1169.9	1194.0	1218.0	1239.2	1256.2	1288.8	1300.1	1295.8
10°	1164.3	1172.7	1179.8	1196.8	1226.5	1263.3	1281.7	1324.1	1360.9	1386.4	1392.0
12.5°	1182.7	1195.4	1215.2	1256.2	1283.1	1331.2	1356.7	1397.7	1448.6	1476.9	1496.7
15°	1218.0	1222.3	1247.7	1300.1	1358.1	1401.9	1441.5	1471.2	1520.8	1553.3	1554.7
17.5°	1263.3	1281.7	1317.0	1366.6	1427.4	1492.5	1523.6	1556.1	1574.5	1618.4	1628.3
20°	1353.8	1356.7	1390.6	1455.7	1532.1	1591.5	1614.1	1631.1	1624.0	1669.3	1677.8
22.5°	1438.7	1441.5	1484.0	1571.7	1653.7	1704.7	1714.6	1704.7	1683.4	1716.0	1718.8
25°	1525.0	1550.5	1581.6	1669.3	1771.1	1839.1	1840.5	1813.6	1769.7	1775.4	1789.5
27.5°	1659.4	1677.8	1710.3	1791.0	1902.7	1979.1	1966.4	1933.8	1877.2	1881.5	1877.2
30°	1816.4	1833.4	1860.3	1963.5	2045.6	2129.1	2147.4	2116.3	2031.4	2013.1	2034.3
32.5°	2006.0	2030.0	2079.5	2174.3	2243.6	2294.6	2307.3	2296.0	2216.8	2209.7	2223.8
35°	2236.6	2269.1	2314.4	2397.8	2454.4	2546.4	2546.4	2508.2	2436.0	2444.5	2443.1
37.5°	2479.9	2528.0	2598.7	2683.6	2760.0	2809.5	2793.9	2761.4	2689.3	2670.9	2689.3
40°	2785.5	2809.5	2898.6	3009.0	3102.3	3158.9	3092.4	3021.7	2849.1	2876.0	2925.5
42.5°	3064.1	3102.3	3170.2	3291.9	3398.0	3444.7	3365.5	3225.4	3017.5	2996.2	3033.0
45°	3301.8	3342.8	3432.0	3606.0	3717.7	3758.7	3583.3	3357.0	3119.3	3065.6	3081.1
47.5°	3460.2	3481.5	3606.0	3771.5	3873.3	3966.7	3714.9	3447.5	3167.4	3065.6	3059.9
50°	3399.4	3436.2	3581.9	3770.1	3955.4	4021.9	3781.4	3516.8	3183.0	3052.8	3035.9
52.5°	3018.9	3082.5	3245.2	3498.4	3778.5	4016.2	3873.3	3494.2	3177.3	3065.6	3091.0
55°	2100.8	2102.2	2300.2	2673.7	3168.8	3729.0	3738.9	3519.7	3214.1	3144.8	3146.2
57.5°	844.5	887.0	1038.4	1413.2	1870.2	2560.5	3044.3	3265.0	3218.3	3201.4	3245.2
60°	213.6	215.0	261.7	398.9	657.8	1097.8	1594.3	2157.4	2484.1	2595.9	2611.5
62.5°	108.9	110.3	121.7	141.5	179.7	294.2	523.4	830.4	1181.2	1359.5	1406.2
65°	89.1	89.1	96.2	106.1	107.5	113.2	135.8	193.8	281.5	319.7	324.0
67.5°	67.9	67.9	73.6	79.2	82.1	80.6	77.8	80.6	97.6	93.4	90.5
70°	42.4	43.9	46.7	52.3	55.2	56.6	58.0	60.8	69.3	72.1	69.3
72.5°	25.5	25.5	26.9	31.1	35.4	38.2	42.4	45.3	49.5	56.6	55.2
75°	11.3	11.3	14.1	18.4	22.6	26.9	31.1	35.4	38.2	42.4	43.9
77.5°	2.8	4.2	7.1	12.7	17.0	22.6	28.3	32.5	35.4	35.4	34.0
80°	1.4	1.4	5.7	9.9	18.4	24.0	31.1	34.0	38.2	35.4	31.1
82.5°	1.4	1.4	5.7	9.9	17.0	24.0	32.5	36.8	39.6	35.4	29.7
85°	0.0	1.4	4.2	8.5	14.1	17.0	14.1	9.9	5.7	5.7	4.2
87.5°	0.0	0.0	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)