

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: P451816

Luminaire Tested: **GALN-SA2D-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

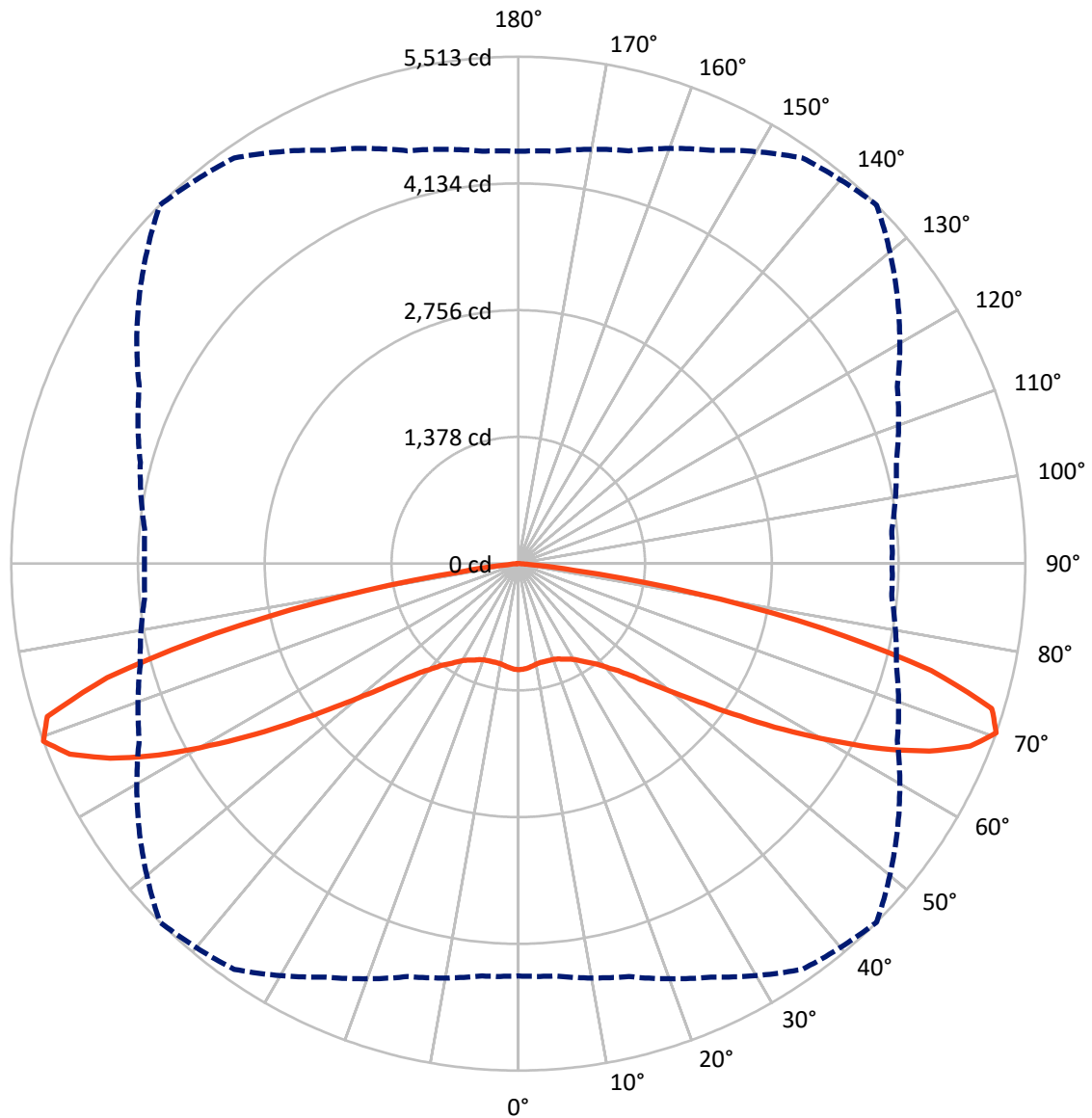
Lumens per Lamp: N/A
Luminaire Lumens: 13617 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 125
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



REPORT NUMBER: P451816
CATALOG NUMBER: GALN-SA2D-727-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P451816

CATALOG NUMBER: GALN-SA2D-727-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6808.5	0.0	6808.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6808.5	0.0	6808.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13617.0	0.0	13617.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	0.8
10°-20°	315.6	2.3
20°-30°	537.8	3.9
30°-40°	833.5	6.1
40°-50°	1402.9	10.3
50°-60°	2552.6	18.7
60°-70°	4321.4	31.7
70°-80°	3344.9	24.6
80°-90°	200.4	1.5
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°	13617.0	100.0
0°-180°	13617.0	100.0



REPORT NUMBER: P451816

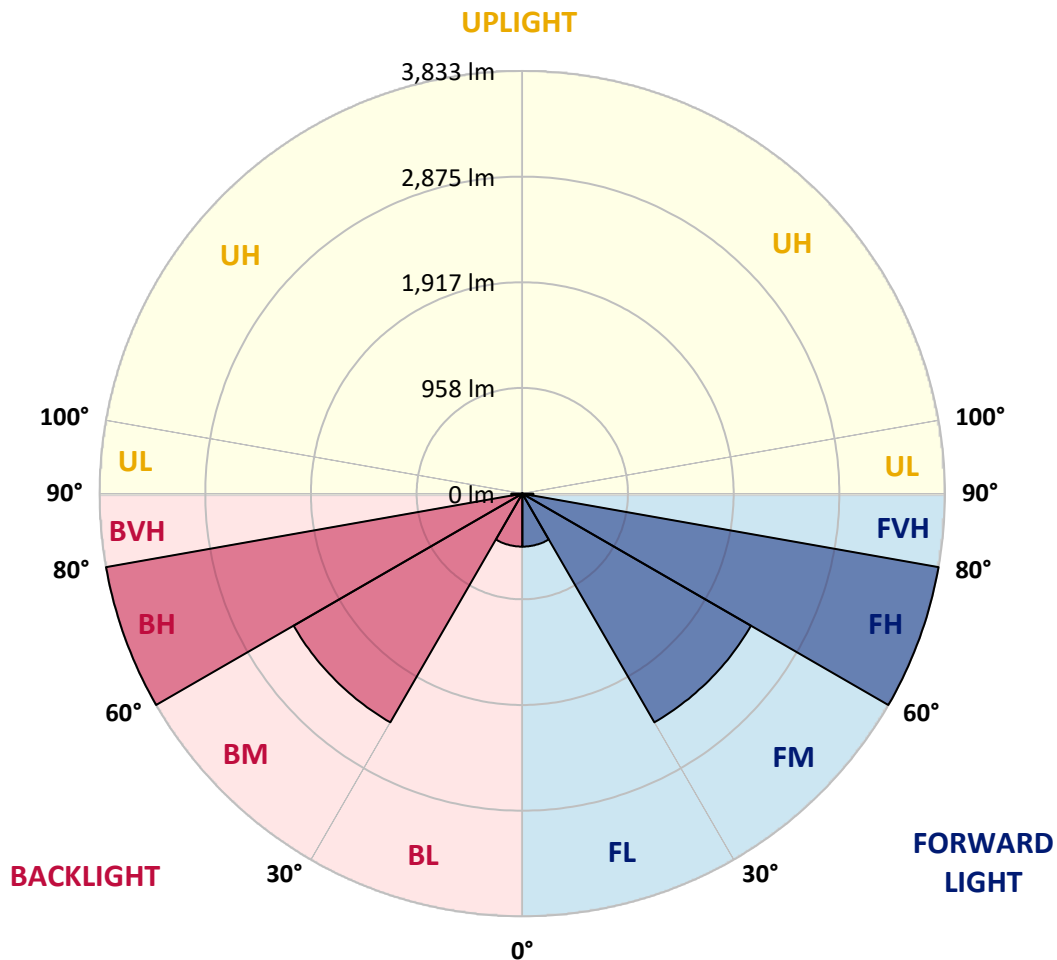
CATALOG NUMBER: GALN-SA2D-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.6	3.5			
FM (30°-60°)	2394.5	17.6			
FH (60°-80°)	3833.2	28.1			G2/5000
FVH (80°-90°)	100.2	0.7			G2/225
BL (0°-30°)	480.6	3.5	B1/500		
BM (30°-60°)	2394.5	17.6	B2/2500		
BH (60°-80°)	3833.2	28.1	B4/5000		G2/5000
BVH (80°-90°)	100.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P451816

CATALOG NUMBER: GALN-SA2D-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8
2.5°	1150.0	1150.7	1150.7	1149.2	1148.5	1148.5	1147.8	1147.8	1150.0	1150.7	1151.4
5°	1139.9	1139.9	1139.9	1139.2	1137.7	1137.7	1136.3	1136.3	1137.0	1139.2	1137.7
7.5°	1126.2	1127.7	1127.7	1124.8	1122.6	1122.6	1121.9	1122.6	1123.4	1125.5	1124.8
10°	1121.9	1122.6	1119.0	1114.0	1110.4	1108.3	1109.0	1110.4	1114.0	1115.4	1116.2
12.5°	1124.8	1124.8	1118.3	1111.1	1104.7	1101.8	1101.1	1106.1	1112.6	1116.9	1118.3
15°	1128.4	1127.0	1119.0	1109.7	1103.2	1102.5	1101.8	1105.4	1114.7	1123.4	1124.1
17.5°	1130.6	1129.8	1119.8	1108.3	1104.7	1104.7	1103.9	1106.8	1116.9	1127.7	1128.4
20°	1137.7	1135.6	1124.1	1111.9	1109.0	1110.4	1108.3	1111.9	1122.6	1135.6	1138.5
22.5°	1152.1	1150.0	1138.5	1126.2	1124.8	1124.8	1124.1	1127.7	1139.2	1152.8	1155.0
25°	1169.4	1167.2	1156.4	1147.8	1149.2	1152.1	1150.7	1151.4	1160.8	1172.3	1175.9
27.5°	1192.4	1188.8	1179.5	1172.3	1176.6	1176.6	1176.6	1175.9	1181.6	1192.4	1196.0
30°	1220.4	1219.0	1208.9	1208.2	1211.8	1208.2	1208.2	1208.9	1209.7	1219.7	1223.3
32.5°	1257.1	1254.3	1249.2	1247.8	1257.8	1260.7	1250.7	1241.3	1246.3	1256.4	1258.6
35°	1317.5	1313.2	1306.0	1298.1	1306.0	1319.7	1298.1	1290.9	1303.9	1317.5	1319.0
37.5°	1399.5	1397.4	1385.9	1371.5	1370.8	1385.1	1362.8	1362.1	1386.6	1403.1	1405.3
40°	1502.4	1504.5	1490.1	1476.5	1469.3	1480.8	1463.5	1470.0	1493.7	1512.4	1511.0
42.5°	1646.9	1639.0	1616.7	1603.8	1595.9	1591.5	1587.2	1597.3	1623.9	1644.0	1659.9
45°	1815.9	1813.1	1785.0	1769.2	1751.9	1745.5	1744.0	1762.0	1794.4	1818.8	1821.0
47.5°	2007.2	2000.8	1982.8	1966.2	1959.8	1951.9	1944.7	1958.3	1990.7	2008.0	2013.0
50°	2204.3	2205.7	2205.7	2202.8	2209.3	2210.8	2191.3	2196.4	2214.4	2212.9	2211.5
52.5°	2429.4	2437.3	2474.7	2478.3	2509.2	2530.1	2494.8	2474.0	2467.5	2428.7	2431.5
55°	2694.0	2701.2	2757.3	2813.4	2896.9	2932.1	2858.0	2793.3	2747.3	2688.3	2691.2
57.5°	3024.2	3027.7	3081.0	3188.8	3321.2	3403.9	3273.7	3145.7	3052.2	2996.1	2973.8
60°	3379.4	3383.0	3460.7	3592.3	3798.0	3898.7	3737.6	3528.3	3410.4	3324.8	3330.5
62.5°	3805.9	3820.3	3890.0	4071.3	4320.8	4433.7	4220.1	3940.4	3780.7	3674.3	3678.6
65°	4262.6	4287.0	4363.3	4562.5	4792.6	4914.2	4652.4	4329.5	4131.0	4000.8	4014.5
67.5°	4558.9	4580.5	4690.5	4910.6	5197.5	5298.2	4960.2	4584.1	4335.9	4180.6	4151.8
70°	4483.4	4501.3	4648.1	4960.2	5385.2	5512.5	5033.5	4546.7	4254.7	4075.6	4064.1
72.5°	3957.6	3920.3	4134.6	4582.6	5170.9	5384.5	4802.7	4152.5	3785.0	3600.9	3579.4
75°	2622.9	2704.1	3020.6	3548.4	4374.8	4639.4	4099.3	3334.1	2871.7	2718.5	2694.8
77.5°	876.7	939.2	1220.4	2011.5	2982.4	3380.1	2986.8	2180.6	1542.6	1242.7	1248.5
80°	232.3	229.4	297.0	553.0	1288.8	1957.6	1500.2	738.6	404.2	292.7	277.6
82.5°	83.4	93.5	120.1	153.2	341.6	608.4	429.4	207.1	151.7	112.2	108.6
85°	36.7	36.0	51.8	61.1	85.6	113.6	100.7	87.7	77.0	51.1	47.5
87.5°	7.9	7.9	12.2	9.3	15.1	15.1	18.7	22.3	23.0	15.1	12.2
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)