

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: P451032

Luminaire Tested: **GALN-SA1D-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451032  
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-SA1D-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6005 lumens  
Efficiency: N/A  
Efficacy: 92.4 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

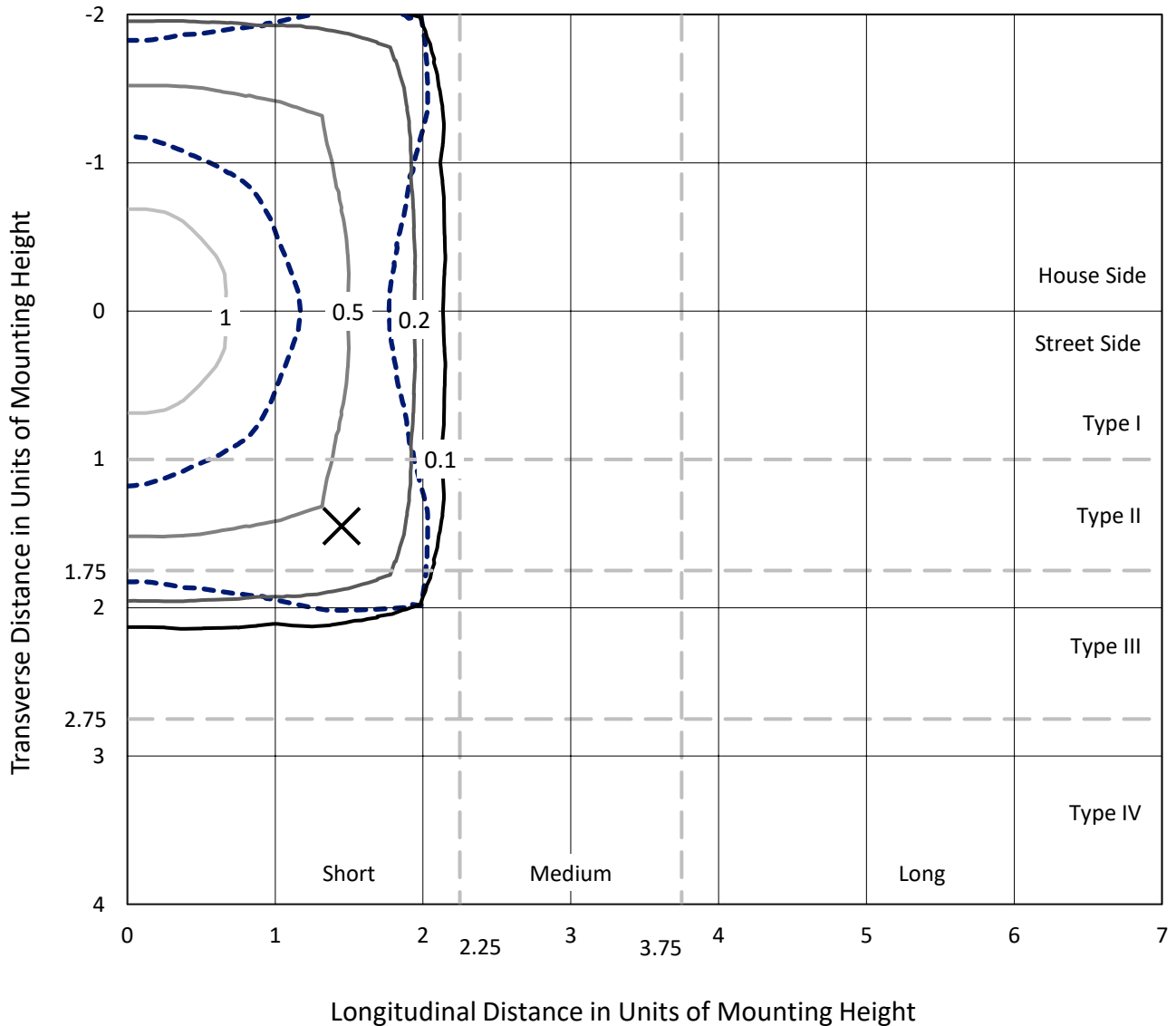
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

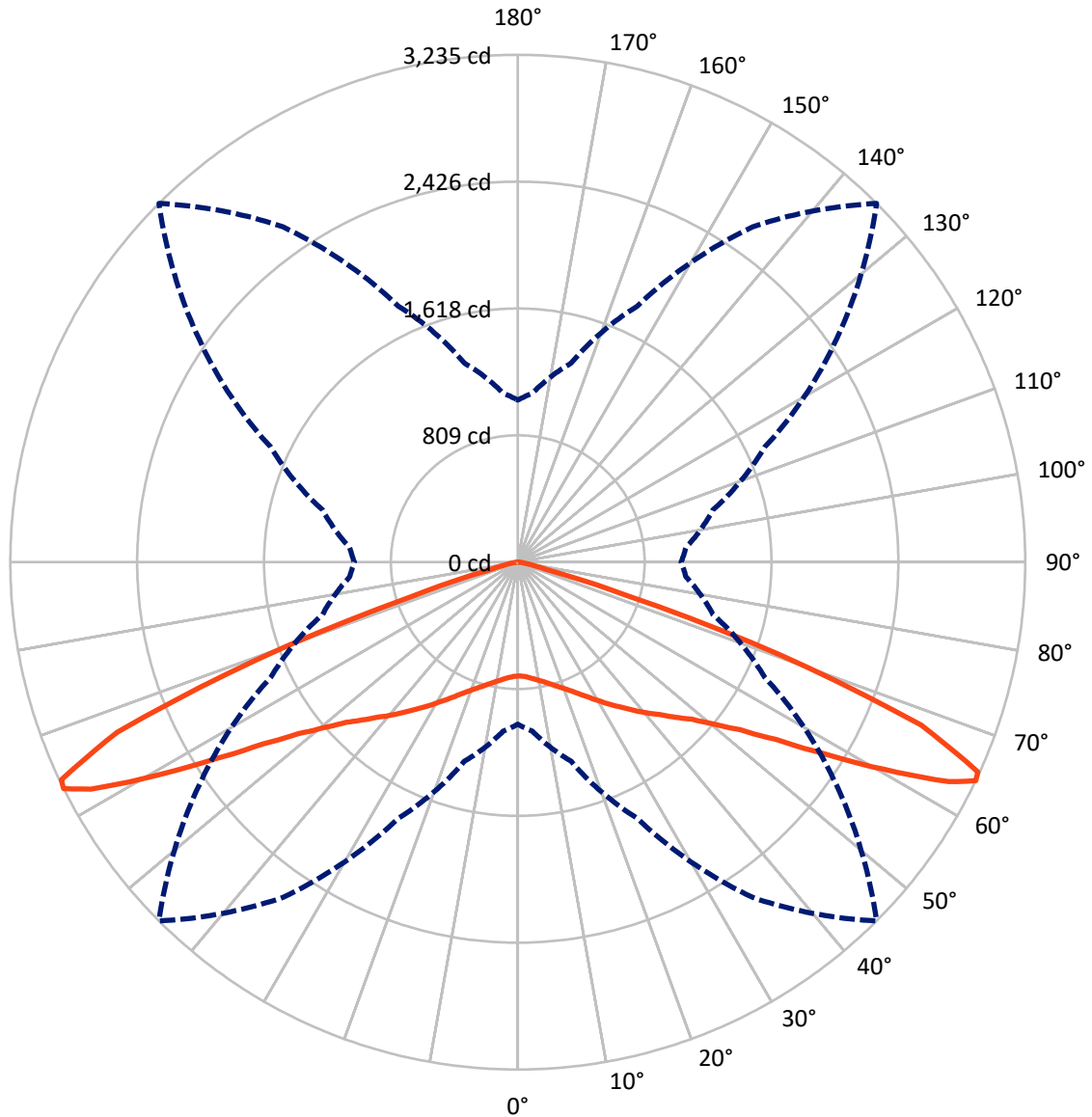
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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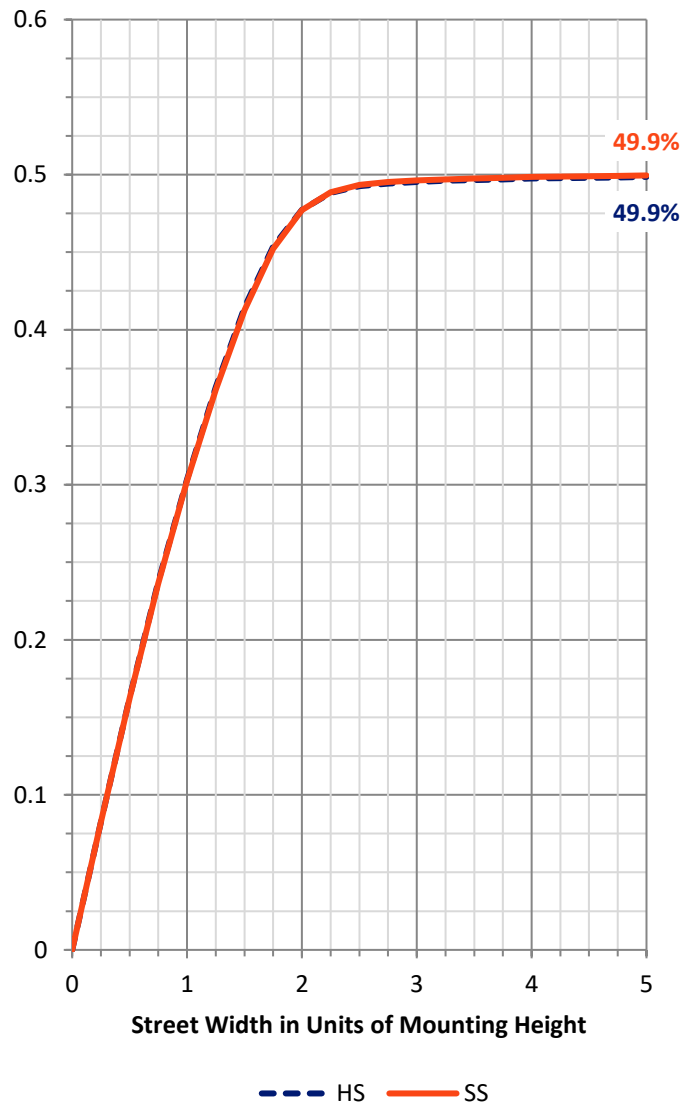
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3002.5	0.0	3002.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3002.5	0.0	3002.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6005.0	0.0	6005.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.3	1.2
10°-20°	230.0	3.8
20°-30°	434.6	7.2
30°-40°	719.8	12.0
40°-50°	1123.8	18.7
50°-60°	1737.3	28.9
60°-70°	1498.1	24.9
70°-80°	169.8	2.8
80°-90°	20.3	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°	6005.0	100.0
0°-180°	6005.0	100.0

**Coefficient of Utilization**



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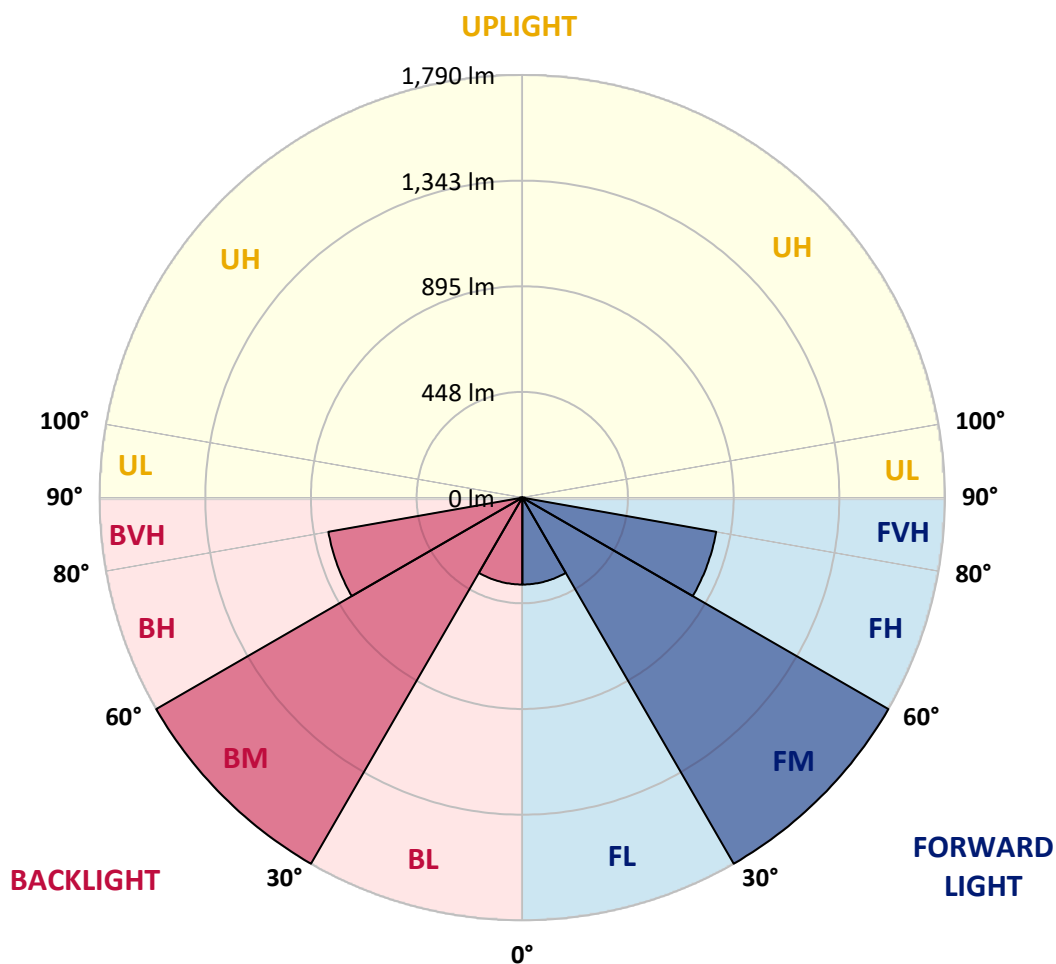
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	368.0	6.1			
FM	(30°-60°)	1790.4	29.8			
FH	(60°-80°)	833.9	13.9			G1/1800
FVH	(80°-90°)	10.2	0.2			G1/100
BL	(0°-30°)	368.0	6.1	B1/500		
BM	(30°-60°)	1790.4	29.8	B2/2500		
BH	(60°-80°)	833.9	13.9	B2/1000		G1/1800
BVH	(80°-90°)	10.2	0.2			G1/100
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°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8
2.5°	728.7	730.3	729.0	728.7	728.3	728.3	728.3	728.7	729.9	730.9	730.3
5°	737.9	739.2	738.5	738.2	737.9	738.2	737.6	737.3	738.2	738.2	737.9
7.5°	749.3	750.9	750.3	750.9	751.2	751.6	750.0	748.7	748.4	749.3	748.7
10°	764.9	766.2	766.5	766.8	767.5	767.2	765.2	763.0	762.7	762.4	762.1
12.5°	782.4	783.4	783.7	785.0	785.9	786.2	784.0	782.1	778.9	779.6	778.3
15°	802.1	804.0	803.7	805.6	808.2	808.8	806.6	803.4	800.5	799.0	798.0
17.5°	826.3	827.6	826.9	828.9	832.0	833.6	831.7	827.6	824.7	821.2	819.3
20°	854.9	857.2	857.8	857.8	860.7	862.3	859.4	858.1	853.7	851.1	849.5
22.5°	887.4	888.3	890.2	892.1	895.0	894.4	893.4	891.5	887.4	885.2	882.6
25°	924.0	924.9	929.7	933.8	934.8	934.1	932.9	931.9	928.1	923.0	921.1
27.5°	966.6	968.5	974.8	978.7	978.7	979.0	976.4	979.6	971.3	965.3	964.7
30°	1020.0	1021.3	1026.7	1030.5	1028.6	1027.0	1026.4	1029.5	1020.6	1009.8	1007.3
32.5°	1072.8	1077.3	1082.0	1090.3	1083.6	1080.8	1080.1	1082.3	1072.2	1060.1	1056.6
35°	1129.4	1132.6	1141.5	1148.5	1142.5	1135.8	1138.6	1145.6	1133.6	1117.3	1116.7
37.5°	1192.1	1194.9	1206.4	1213.7	1209.3	1197.8	1202.6	1210.8	1198.8	1178.7	1174.6
40°	1257.3	1263.3	1277.6	1285.3	1278.0	1262.7	1271.6	1280.5	1269.7	1246.5	1237.2
42.5°	1330.4	1340.0	1360.6	1364.5	1350.5	1329.8	1345.4	1359.7	1352.1	1325.3	1321.8
45°	1416.0	1421.7	1447.2	1455.4	1436.0	1410.3	1429.7	1455.7	1450.0	1419.2	1412.5
47.5°	1511.7	1517.1	1543.5	1555.9	1531.4	1496.8	1531.8	1565.8	1562.3	1529.2	1526.0
50°	1625.0	1626.2	1662.8	1676.8	1652.3	1622.4	1653.6	1695.9	1681.9	1639.6	1638.9
52.5°	1749.0	1750.6	1796.7	1823.7	1810.1	1776.3	1813.2	1839.0	1803.4	1748.0	1743.9
55°	1856.5	1864.4	1927.4	1999.3	2018.1	1993.6	2004.7	1992.6	1904.8	1827.2	1815.1
57.5°	1900.4	1916.0	2011.7	2145.9	2268.1	2304.3	2218.4	2103.3	1945.2	1835.5	1823.7
60°	1793.2	1810.1	1958.6	2213.4	2525.1	2682.5	2441.1	2122.1	1853.3	1699.1	1680.6
62.5°	1436.0	1440.8	1659.3	2054.6	2674.9	3082.6	2534.9	1962.1	1585.8	1376.2	1368.9
64°	1033.4	1082.3	1313.9	1801.5	2609.3	3235.0	2480.8	1737.9	1288.1	1076.0	1041.6
65°	772.9	786.2	1059.1	1538.4	2493.9	3223.5	2375.9	1523.5	1066.8	823.4	785.3
67.5°	292.0	293.6	390.9	766.8	1775.4	2773.5	1813.2	828.9	449.4	325.1	313.3
70°	121.2	123.4	143.4	257.9	763.0	1780.8	874.3	299.0	164.4	133.3	131.4
72.5°	88.7	90.0	96.1	114.5	234.7	731.2	287.5	126.9	96.4	86.2	85.2
75°	69.7	70.3	74.7	84.3	109.4	202.6	119.6	87.1	73.5	66.2	65.5
77.5°	53.1	54.7	57.9	64.2	73.5	96.1	79.2	65.2	56.6	50.6	49.6
80°	36.6	38.5	44.5	47.1	49.3	62.3	54.1	49.3	44.2	36.9	34.7
82.5°	22.6	23.9	29.9	32.1	31.2	35.0	34.7	35.3	31.5	22.9	21.3
85°	11.8	12.4	16.2	16.9	15.6	14.3	17.8	20.7	19.4	13.0	12.7
87.5°	2.5	2.9	3.5	3.2	3.5	3.5	4.5	6.7	7.0	4.5	4.1
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)