

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: P647202

Luminaire Tested: **GALN-SA1D-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-835-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5520.1 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

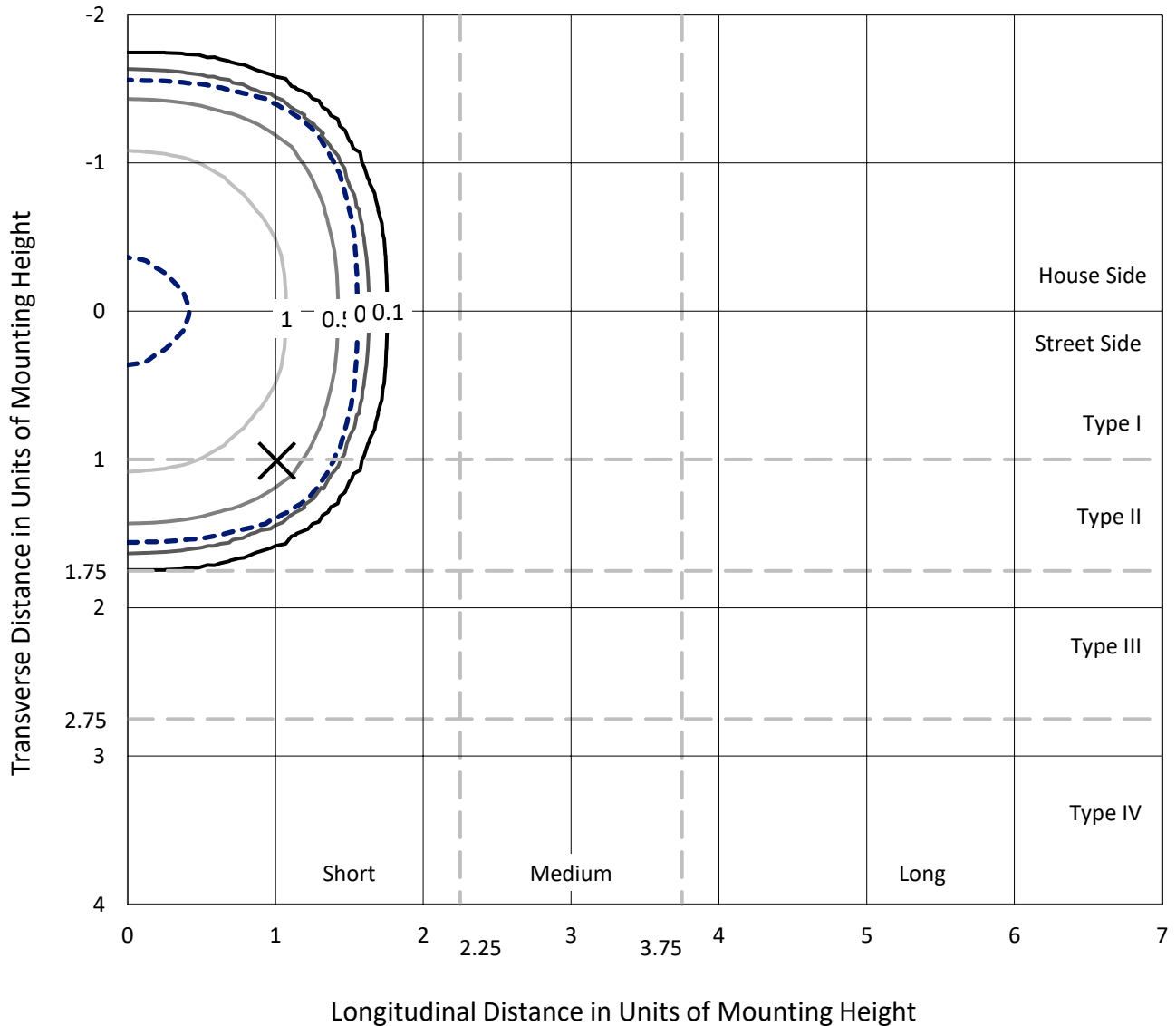
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

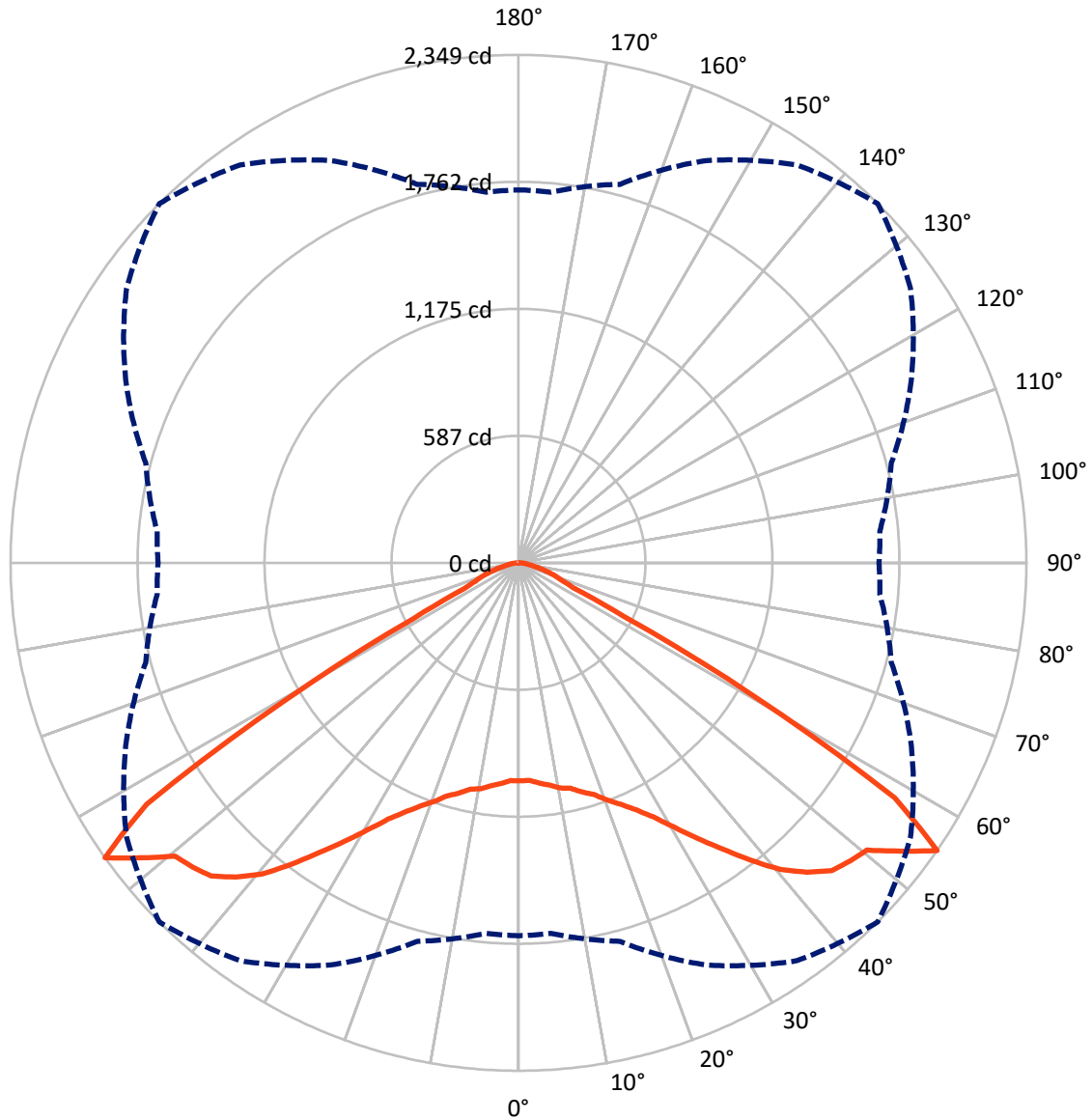
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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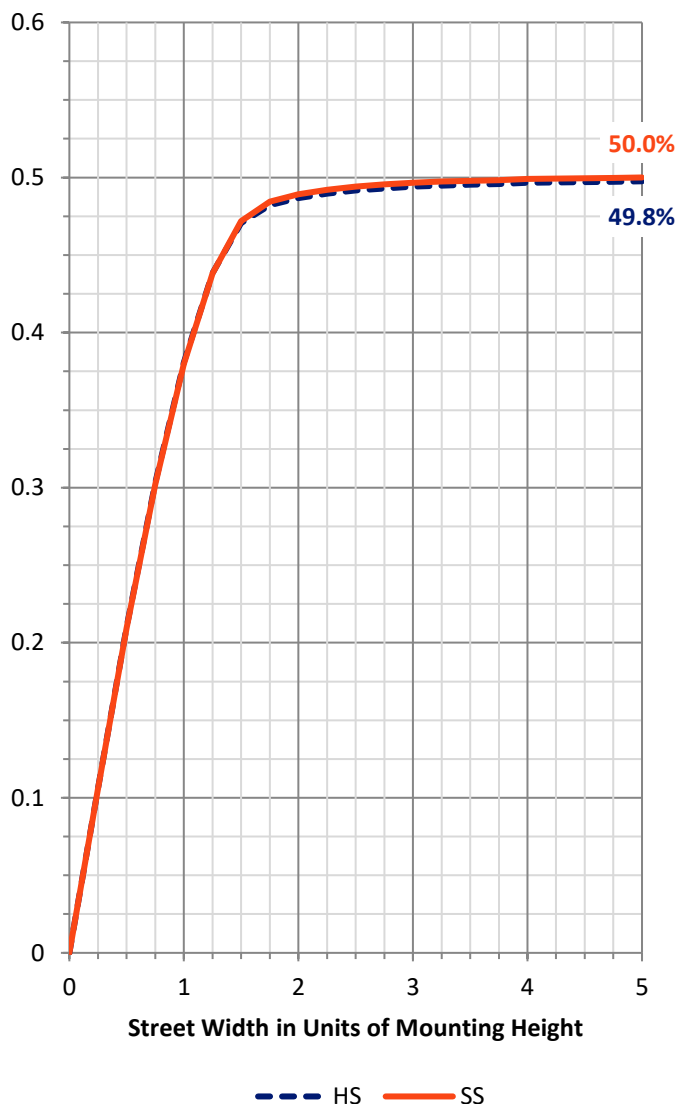
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2760.1	0.0	2760.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2760.1	0.0	2760.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5520.1	0.0	5520.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	1.8
10°-20°	312.0	5.7
20°-30°	581.7	10.5
30°-40°	974.0	17.6
40°-50°	1515.6	27.5
50°-60°	1573.7	28.5
60°-70°	333.7	6.0
70°-80°	109.9	2.0
80°-90°	20.9	0.4
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°	5520.1	100.0
0°-180°	5520.1	100.0

**Coefficient of Utilization**



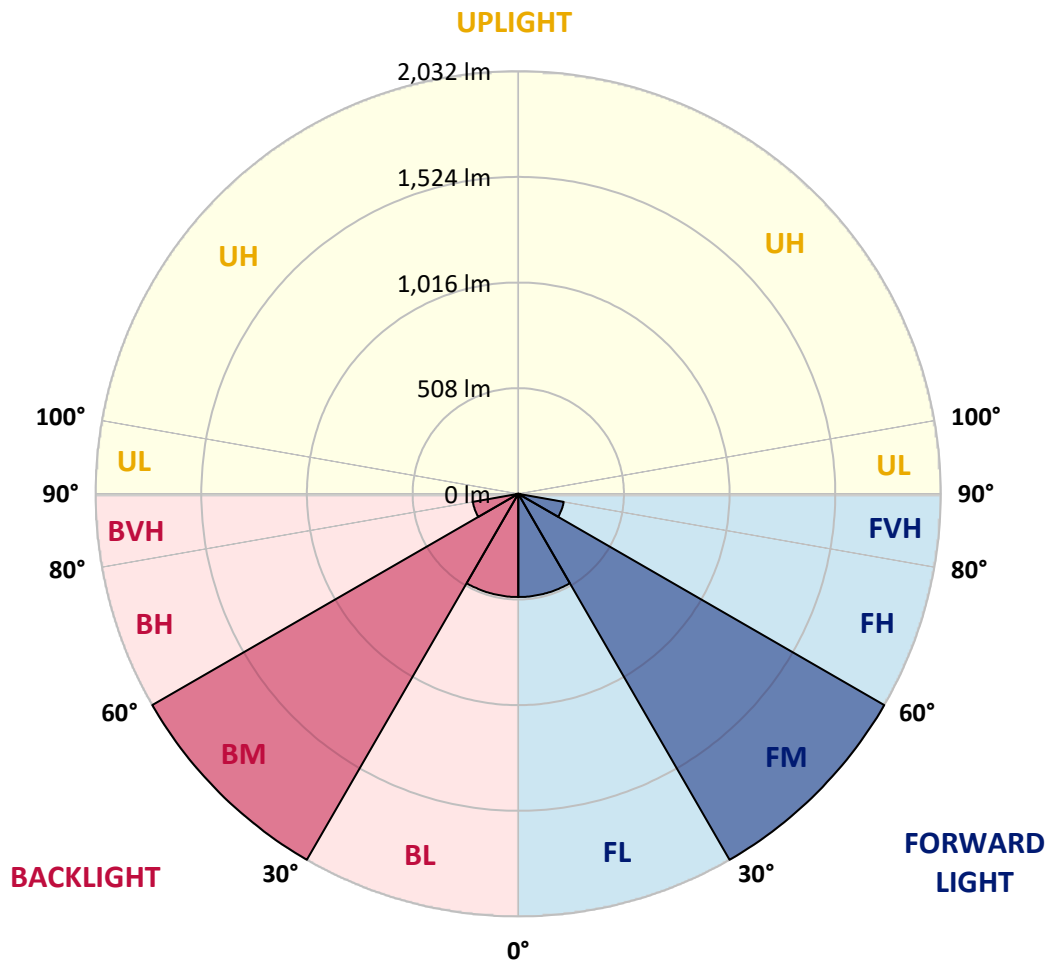
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.1	9.0			
FM (30°-60°)	2031.7	36.8			
FH (60°-80°)	221.8	4.0			G0/660
FVH (80°-90°)	10.5	0.2			G1/100
BL (0°-30°)	496.1	9.0	B1/500		
BM (30°-60°)	2031.7	36.8	B2/2500		
BH (60°-80°)	221.8	4.0	B1/500		G0/660
BVH (80°-90°)	10.5	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°	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	1019.9	1015.2	1007.3	1013.2	1017.9	1007.9	1011.9	1013.9	1012.6	1007.3	1009.2
5°	1034.6	1031.9	1025.3	1029.9	1023.9	1023.9	1019.9	1014.5	1022.6	1021.3	1024.6
7.5°	1034.6	1031.2	1044.6	1035.9	1038.6	1038.6	1031.9	1026.6	1030.6	1024.6	1021.3
10°	1055.2	1059.9	1053.9	1056.0	1054.6	1059.2	1049.2	1045.9	1042.6	1040.6	1036.6
12.5°	1079.9	1076.6	1078.6	1077.3	1081.9	1070.0	1063.9	1056.6	1062.6	1053.9	1059.9
15°	1100.0	1097.9	1100.0	1105.3	1100.6	1100.0	1089.3	1081.9	1072.6	1074.6	1065.3
17.5°	1127.3	1125.3	1126.0	1130.7	1129.9	1126.7	1118.6	1104.7	1101.3	1096.0	1089.9
20°	1168.0	1164.6	1163.3	1165.3	1168.6	1171.3	1155.3	1150.0	1138.6	1129.9	1119.9
22.5°	1202.7	1201.4	1206.7	1198.0	1205.4	1213.3	1198.0	1195.3	1167.3	1162.7	1151.9
25°	1250.7	1248.7	1245.4	1258.0	1266.7	1266.0	1251.4	1236.7	1215.4	1210.0	1210.0
27.5°	1301.4	1290.1	1307.4	1310.7	1326.1	1330.7	1318.1	1296.7	1276.7	1265.4	1268.1
30°	1364.8	1354.1	1358.1	1382.1	1402.1	1419.4	1387.5	1356.1	1328.0	1308.1	1304.7
32.5°	1428.1	1417.5	1429.4	1452.8	1492.9	1518.9	1487.5	1432.8	1400.1	1370.8	1376.7
35°	1479.5	1487.5	1506.8	1542.2	1583.5	1625.6	1575.6	1533.5	1486.8	1454.1	1458.8
37.5°	1562.2	1586.9	1602.3	1642.9	1701.6	1745.0	1692.9	1638.3	1588.2	1545.6	1530.8
40°	1670.3	1687.0	1704.3	1752.3	1821.6	1865.0	1815.7	1744.3	1695.0	1651.0	1648.9
42.5°	1789.0	1805.0	1823.0	1881.7	1923.0	1955.8	1910.4	1872.4	1817.7	1783.0	1781.0
45°	1927.0	1915.8	1935.7	1974.4	2009.1	2030.5	2001.1	1982.5	1943.1	1911.1	1907.7
47.5°	2019.1	2009.1	2045.1	2079.8	2085.1	2061.8	2067.8	2085.1	2043.8	1991.1	2007.8
50°	2072.5	2072.5	2096.5	2128.5	2118.5	2088.5	2135.9	2137.2	2095.9	2049.1	2049.1
52.5°	1979.7	2000.5	2068.5	2173.2	2206.6	2215.3	2204.5	2159.2	2051.1	1955.8	1951.1
55°	1724.9	1720.3	1812.3	2052.5	2246.6	2349.3	2213.2	2004.5	1785.0	1677.6	1666.9
57.5°	1122.0	1127.3	1264.7	1509.5	1859.7	2051.1	1821.6	1528.2	1264.7	1116.6	1130.7
60°	505.0	523.0	606.4	789.1	1089.9	1246.1	1092.6	829.1	636.3	552.3	559.6
62.5°	290.2	293.5	296.8	352.2	464.2	549.0	482.2	372.2	328.2	313.5	313.5
65°	244.8	242.8	243.4	248.1	260.1	277.5	270.1	260.1	261.4	260.1	258.2
67.5°	208.1	210.8	208.7	212.1	212.8	215.5	220.1	224.1	224.8	226.1	224.8
70°	170.8	171.4	172.7	175.5	176.1	178.1	184.8	188.1	190.1	190.1	192.8
72.5°	130.8	130.1	131.4	134.0	137.4	138.0	144.1	148.8	151.4	148.1	148.8
75°	86.1	86.7	88.7	90.7	95.4	100.1	102.0	106.7	107.4	108.8	105.4
77.5°	51.4	52.7	54.7	58.7	62.7	66.7	71.4	74.7	76.0	74.7	70.7
80°	33.4	33.4	36.0	39.4	44.0	47.4	50.0	52.7	54.7	52.7	51.4
82.5°	20.7	20.7	24.0	28.0	31.3	33.4	37.3	40.7	42.7	41.3	39.4
85°	10.6	11.4	14.0	17.3	20.0	21.4	20.7	18.7	16.7	16.0	14.6
87.5°	3.4	3.4	4.0	4.0	3.4	3.4	4.0	3.4	4.0	4.0	4.0
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)