

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: P647199

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
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-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5409.7 lumens  
Efficiency: N/A  
Efficacy: 83.2 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

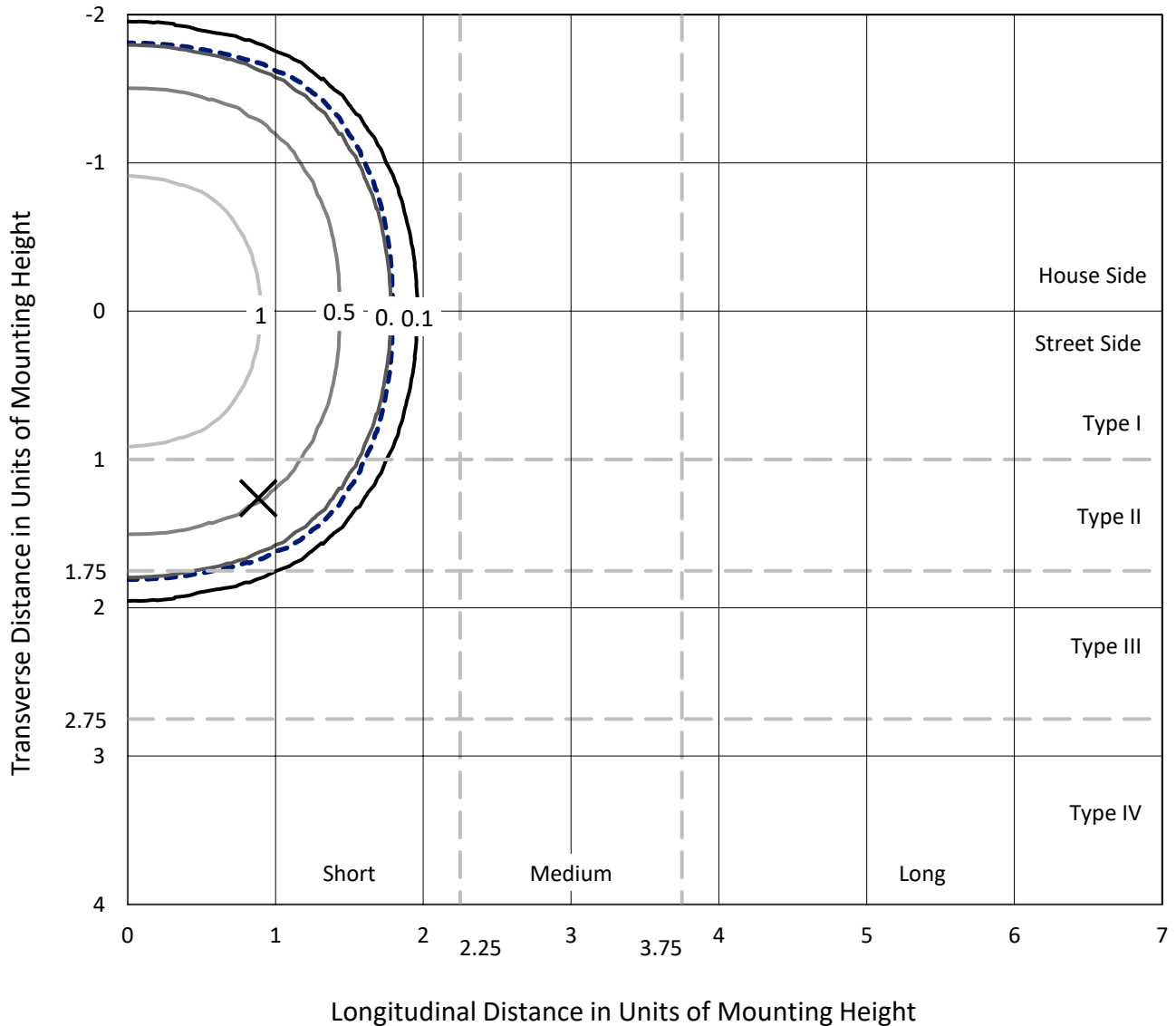
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

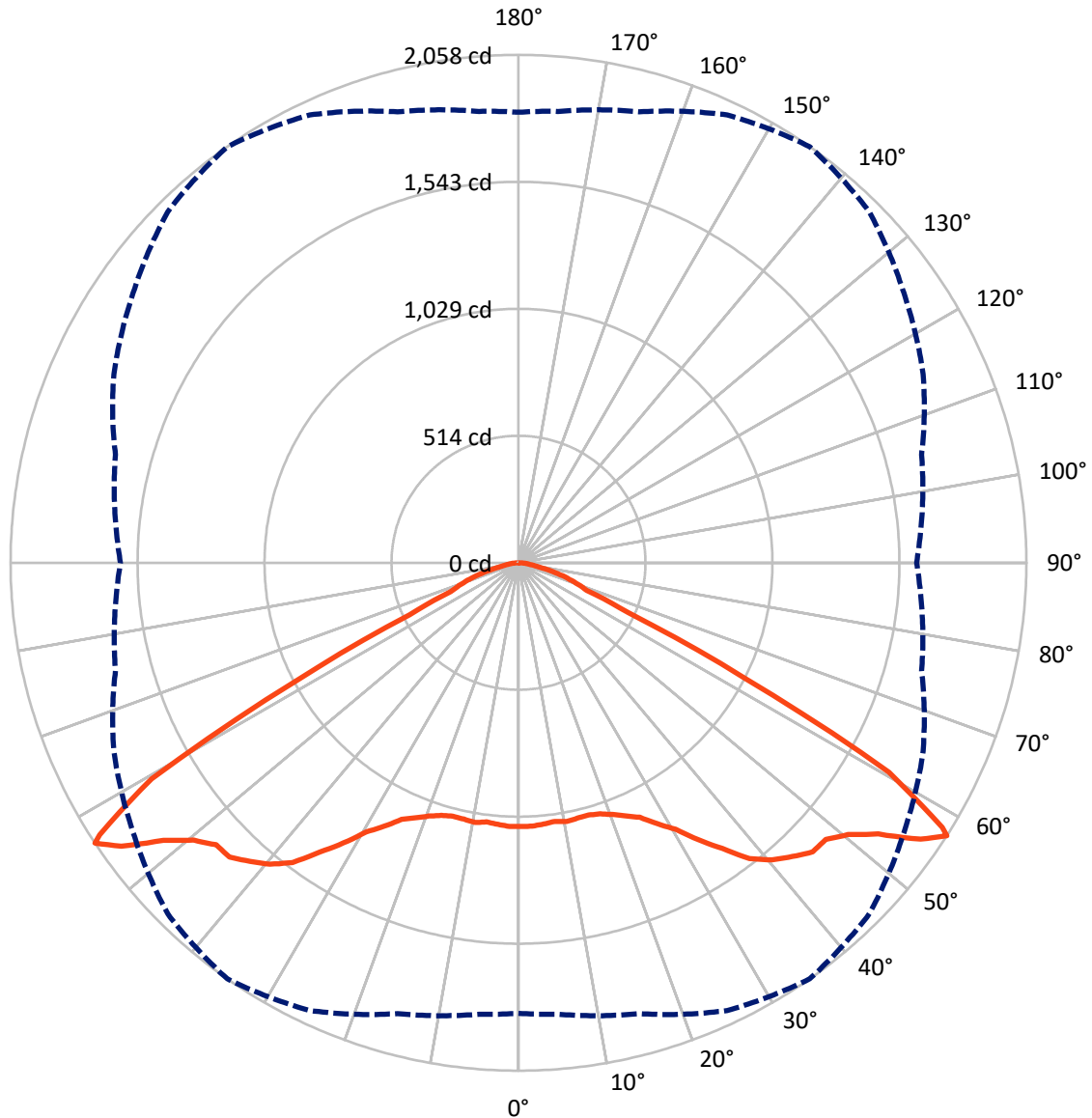
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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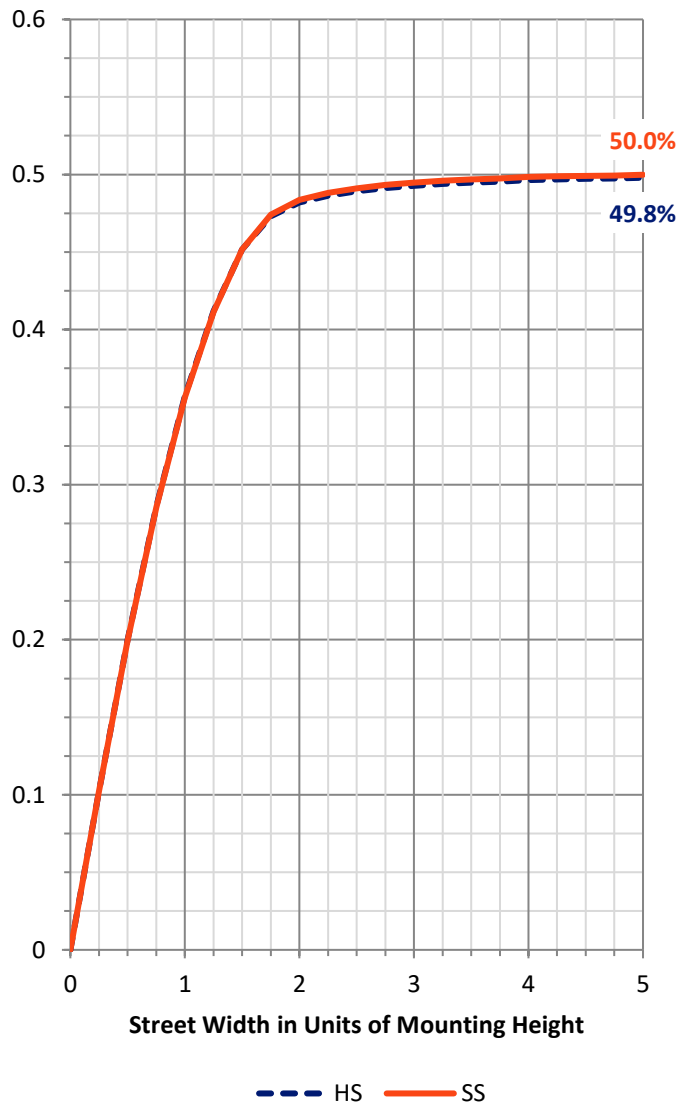
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2704.9	0.0	2704.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2704.9	0.0	2704.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5409.7	0.0	5409.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.3	1.9
10°-20°	300.0	5.5
20°-30°	523.9	9.7
30°-40°	858.4	15.9
40°-50°	1258.7	23.3
50°-60°	1585.4	29.3
60°-70°	596.3	11.0
70°-80°	158.5	2.9
80°-90°	27.2	0.5
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°	5409.7	100.0
0°-180°	5409.7	100.0

**Coefficient of Utilization**



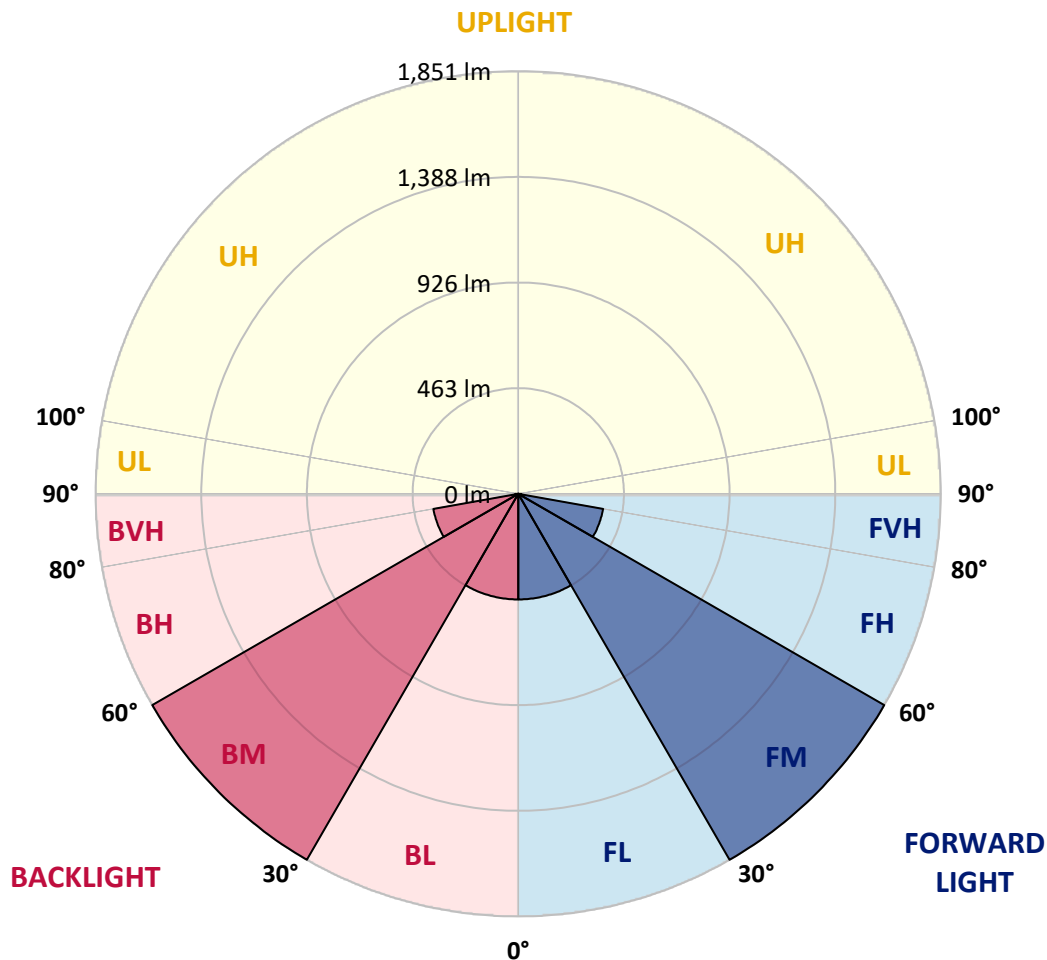
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.6	8.6			
FM (30°-60°)	1851.3	34.2			
FH (60°-80°)	377.4	7.0			G0/660
FVH (80°-90°)	13.6	0.3			G1/100
BL (0°-30°)	462.6	8.6	B1/500		
BM (30°-60°)	1851.3	34.2	B2/2500		
BH (60°-80°)	377.4	7.0	B1/500		G0/660
BVH (80°-90°)	13.6	0.3			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°	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4
2.5°	1063.1	1073.7	1069.0	1066.4	1068.4	1065.0	1059.7	1065.7	1064.4	1059.1	1057.0
5°	1060.4	1068.4	1063.1	1068.4	1063.1	1072.4	1069.7	1059.7	1071.7	1060.4	1064.4
7.5°	1058.4	1061.0	1062.4	1059.7	1057.8	1069.0	1063.1	1058.4	1051.7	1049.7	1053.1
10°	1053.8	1060.4	1050.4	1063.7	1066.4	1058.4	1058.4	1049.7	1044.4	1041.1	1052.4
12.5°	1065.7	1054.4	1053.1	1059.7	1061.7	1065.0	1055.7	1051.0	1041.1	1042.4	1040.4
15°	1051.7	1056.4	1057.0	1058.4	1060.4	1068.4	1059.7	1049.7	1045.7	1031.8	1033.1
17.5°	1057.0	1052.4	1057.0	1072.4	1069.7	1075.7	1066.4	1051.0	1041.7	1033.7	1044.4
20°	1066.4	1064.4	1066.4	1085.1	1088.4	1093.7	1085.7	1071.7	1053.8	1044.4	1049.7
22.5°	1076.4	1075.1	1076.4	1094.4	1113.7	1120.4	1112.4	1079.7	1070.4	1053.1	1047.0
25°	1094.4	1095.7	1109.7	1129.7	1142.4	1155.0	1140.4	1117.0	1087.0	1076.4	1063.7
27.5°	1134.3	1137.7	1145.7	1175.0	1197.1	1208.3	1187.7	1155.7	1137.1	1115.1	1111.7
30°	1183.7	1183.7	1197.7	1223.0	1253.0	1270.3	1245.0	1207.0	1184.4	1172.4	1165.0
32.5°	1249.0	1241.7	1247.0	1291.6	1338.3	1352.9	1319.0	1272.3	1236.4	1220.4	1215.0
35°	1305.0	1309.6	1321.6	1369.6	1421.6	1455.6	1402.3	1341.7	1305.0	1290.3	1287.6
37.5°	1377.6	1385.6	1391.6	1457.6	1520.3	1533.0	1481.6	1433.0	1388.3	1376.3	1369.6
40°	1480.3	1474.9	1477.0	1525.6	1582.3	1590.3	1539.6	1504.9	1468.3	1460.9	1460.9
42.5°	1564.9	1559.0	1565.6	1583.6	1626.9	1620.9	1592.9	1567.6	1552.2	1544.2	1552.2
45°	1616.3	1614.9	1626.9	1640.2	1670.9	1650.9	1628.9	1632.9	1618.2	1604.9	1604.2
47.5°	1672.3	1663.6	1678.2	1698.2	1674.9	1665.6	1664.3	1672.9	1668.3	1644.9	1637.6
50°	1699.6	1696.2	1719.5	1742.9	1730.2	1708.9	1713.5	1727.5	1667.6	1636.2	1618.2
52.5°	1772.9	1773.5	1818.2	1830.9	1825.5	1794.2	1804.2	1766.2	1695.6	1651.6	1653.5
55°	1888.2	1883.5	1933.5	1970.8	1976.8	1936.8	1888.8	1835.5	1746.9	1702.2	1688.9
57°	1824.9	1835.5	1890.9	2001.5	2057.5	2010.1	1905.5	1808.2	1690.2	1636.2	1612.3
57.5°	1740.2	1757.5	1853.5	1964.8	2023.4	2019.4	1884.8	1757.5	1652.2	1568.3	1570.2
60°	1275.0	1278.3	1365.0	1541.6	1724.9	1728.9	1564.9	1396.3	1279.0	1187.7	1200.3
62.5°	672.5	687.8	722.5	864.4	1023.1	1061.7	962.4	875.8	774.5	705.2	711.8
65°	355.9	353.9	370.6	410.5	488.5	508.6	495.2	426.6	391.3	379.9	380.5
67.5°	289.2	292.6	290.6	292.6	297.9	306.6	304.6	307.2	309.3	312.6	311.9
70°	245.2	245.2	246.6	247.3	247.3	251.3	256.0	264.6	265.3	268.6	269.9
72.5°	193.2	191.9	193.9	198.6	199.3	202.6	209.3	214.6	216.6	216.6	212.6
75°	131.3	132.6	135.3	139.3	143.3	149.3	154.6	157.9	159.3	157.3	155.3
77.5°	74.0	75.3	77.3	83.3	88.0	93.3	99.3	102.7	105.9	106.6	102.7
80°	44.0	44.0	47.3	52.0	57.3	62.6	68.0	72.0	73.3	73.3	71.3
82.5°	26.6	27.3	30.0	34.7	39.3	42.7	47.3	50.7	53.3	52.6	51.3
85°	14.0	14.0	16.7	20.7	24.0	27.3	27.3	25.3	24.0	20.7	19.3
87.5°	4.7	4.0	5.3	5.3	4.7	5.3	5.3	6.0	6.0	6.0	6.0
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)