

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: P647205

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647205  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
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-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5199.1 lumens  
Efficiency: N/A  
Efficacy: 80.0 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

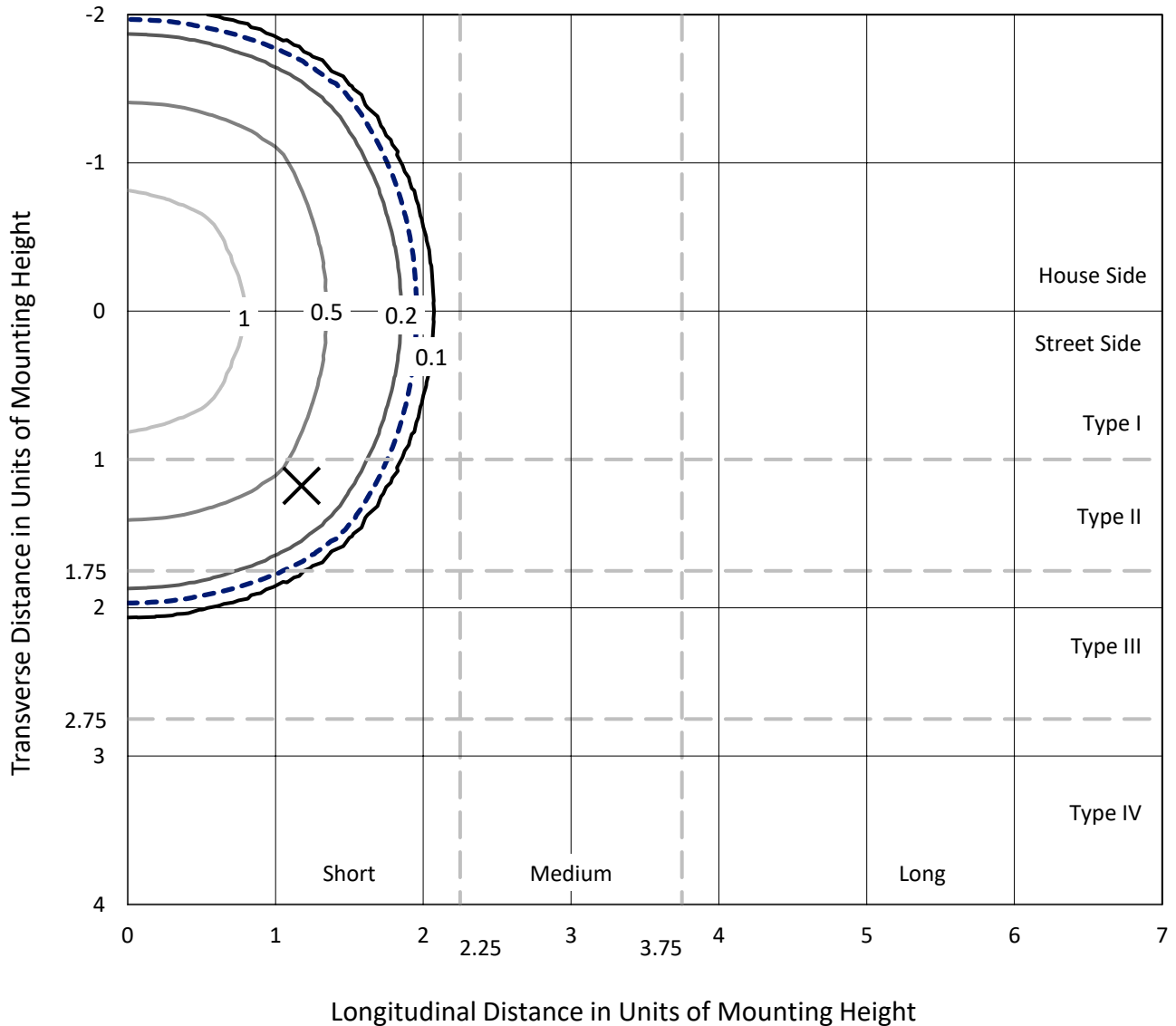
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

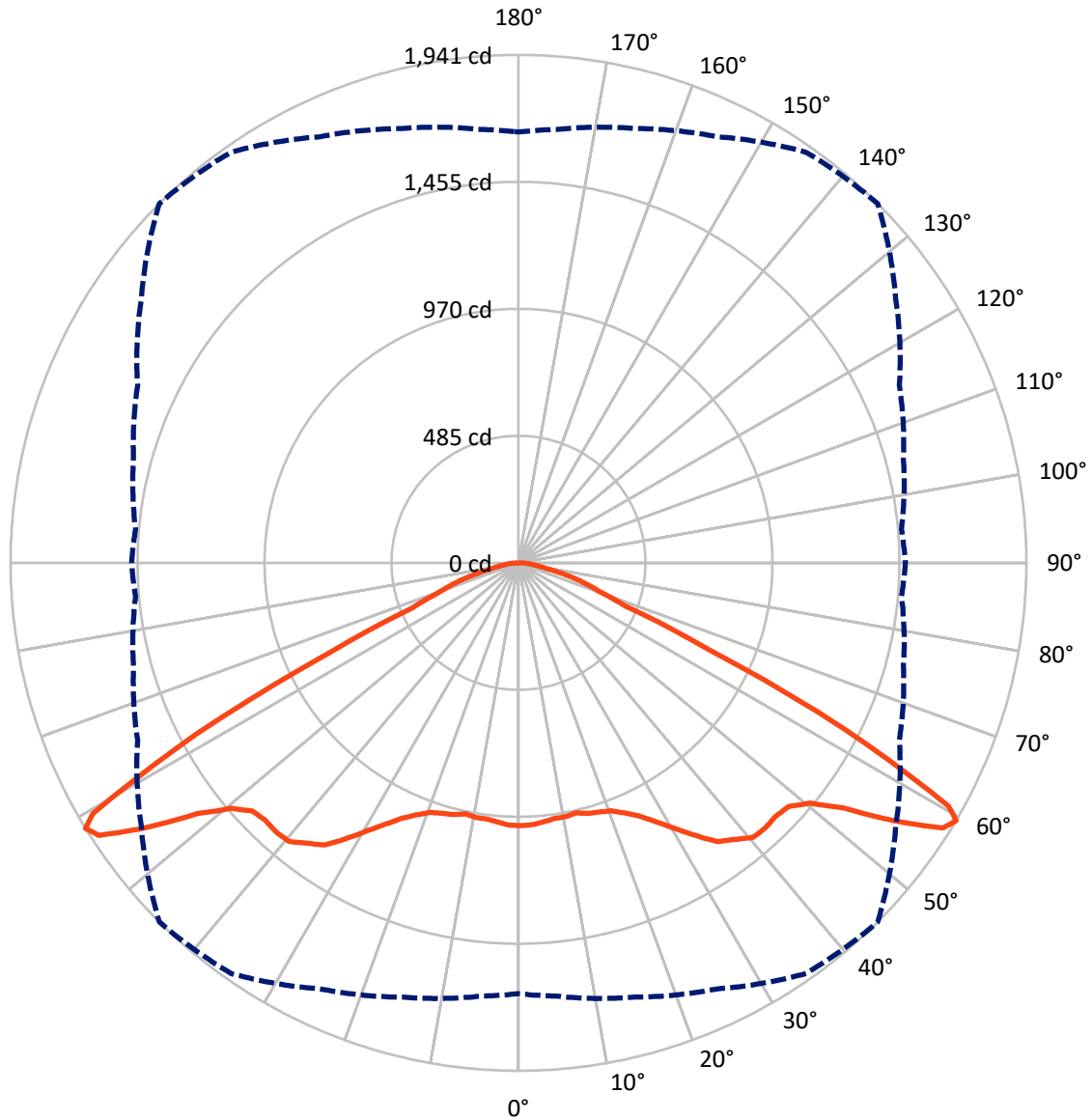
× Max cd  
 - - - 1/2 Max cd



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 59-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2599.6	0.0	2599.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2599.6	0.0	2599.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5199.1	0.0	5199.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.7	1.8
10°-20°	281.5	5.4
20°-30°	491.6	9.5
30°-40°	785.1	15.1
40°-50°	1069.5	20.6
50°-60°	1446.2	27.8
60°-70°	793.1	15.3
70°-80°	202.9	3.9
80°-90°	34.6	0.7
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°	5199.1	100.0
0°-180°	5199.1	100.0

**Coefficient of Utilization**



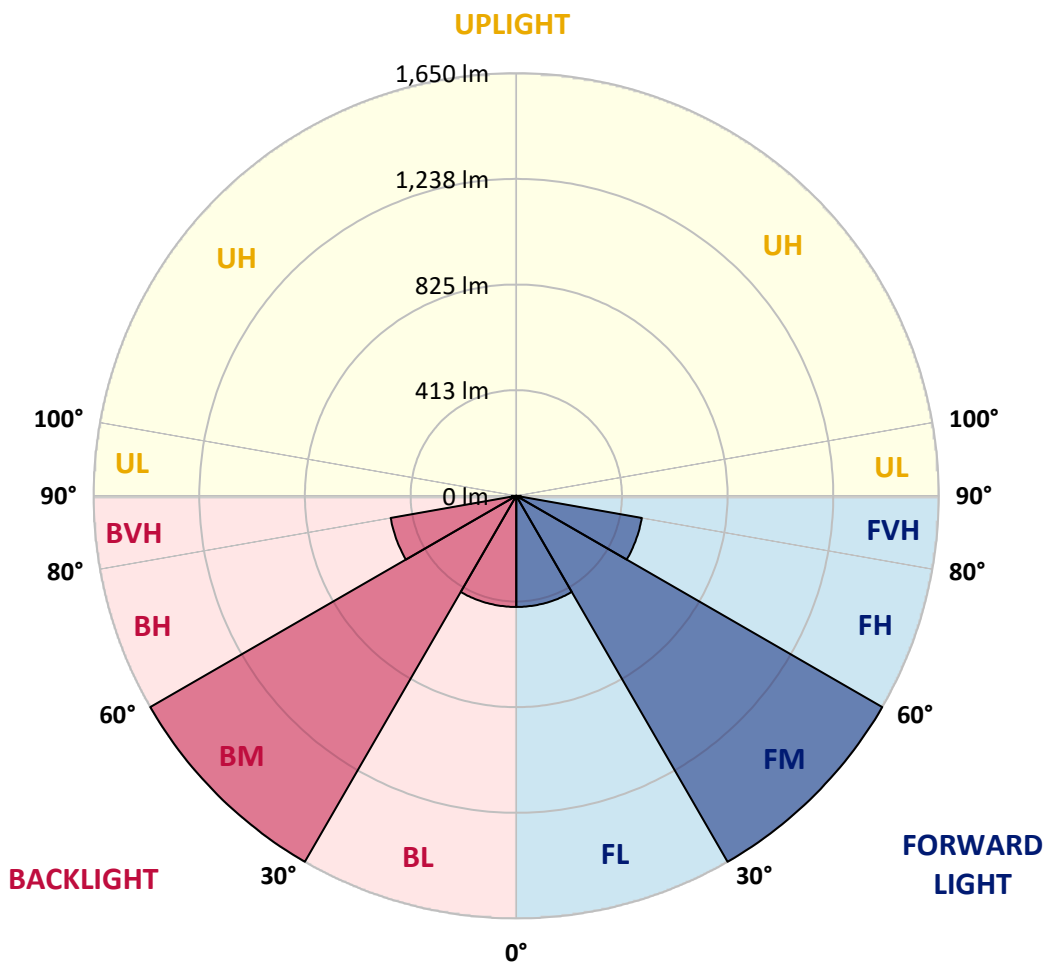
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.9	8.3			
FM (30°-60°)	1650.4	31.7			
FH (60°-80°)	498.0	9.6			G0/660
FVH (80°-90°)	17.3	0.3			G1/100
BL (0°-30°)	433.9	8.3	B1/500		
BM (30°-60°)	1650.4	31.7	B2/2500		
BH (60°-80°)	498.0	9.6	B1/500		G0/660
BVH (80°-90°)	17.3	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°	1004.2	1004.2	1004.2	1004.2	1004.2	1004.2	1004.2	1004.2	1004.2	1004.2	1004.2
2.5°	998.2	1005.5	1000.2	1004.9	1004.2	1002.2	998.9	996.9	994.3	998.2	991.6
5°	994.3	1000.2	1006.2	998.2	998.2	994.3	992.2	988.2	988.2	987.6	986.9
7.5°	1000.9	994.9	992.2	993.5	994.9	986.3	992.2	984.2	977.6	982.2	987.6
10°	994.9	997.5	987.6	992.2	984.9	986.3	982.2	987.6	980.2	980.2	980.2
12.5°	1000.9	993.5	996.9	993.5	991.6	980.2	985.6	979.5	978.9	985.6	979.5
15°	1012.9	1000.9	998.2	991.6	993.5	993.5	988.2	988.9	981.6	985.6	986.9
17.5°	1008.9	1002.2	1000.2	992.2	998.9	1000.9	990.9	984.2	988.9	988.2	987.6
20°	1012.2	1014.8	1012.9	1014.2	1016.9	1011.6	1002.2	992.9	986.9	995.6	994.9
22.5°	1033.6	1030.9	1029.6	1028.2	1032.9	1038.2	1025.6	1010.9	1010.9	1016.9	1019.5
25°	1050.9	1050.2	1049.5	1055.6	1071.5	1071.5	1055.6	1036.8	1032.2	1036.2	1032.9
27.5°	1076.2	1083.5	1080.9	1091.5	1114.8	1120.2	1098.9	1076.9	1064.2	1059.6	1065.5
30°	1134.2	1125.5	1127.5	1138.8	1159.5	1176.8	1144.2	1120.9	1103.5	1102.9	1105.5
32.5°	1172.8	1179.5	1185.5	1196.1	1228.8	1242.2	1202.8	1164.8	1154.1	1148.2	1150.1
35°	1250.1	1244.1	1242.8	1253.4	1286.1	1308.1	1258.8	1225.5	1211.5	1224.8	1224.8
37.5°	1323.4	1306.7	1294.1	1308.1	1338.1	1340.7	1298.8	1280.8	1273.5	1288.7	1288.1
40°	1358.0	1356.7	1327.4	1335.4	1375.4	1379.4	1340.1	1318.7	1317.4	1337.4	1357.4
42.5°	1394.1	1381.4	1352.1	1357.4	1382.1	1383.4	1346.1	1340.1	1354.7	1374.1	1375.4
45°	1400.1	1389.4	1370.7	1357.4	1375.4	1379.4	1357.4	1361.4	1362.7	1386.1	1386.1
47.5°	1412.1	1410.7	1400.1	1390.1	1393.3	1390.1	1376.0	1382.1	1402.0	1413.4	1408.1
50°	1445.3	1431.4	1442.1	1433.4	1434.1	1443.4	1430.7	1436.7	1432.7	1422.7	1416.1
52.5°	1518.6	1512.0	1521.3	1527.3	1534.0	1555.3	1540.6	1508.7	1478.7	1452.0	1451.4
55°	1626.0	1630.6	1648.6	1679.2	1705.2	1739.2	1668.6	1592.0	1544.0	1502.0	1504.7
57.5°	1727.2	1723.9	1748.6	1818.5	1894.5	1911.9	1773.2	1664.0	1586.0	1559.3	1548.0
59°	1645.9	1661.9	1717.9	1795.9	1915.1	1940.5	1759.2	1605.3	1522.6	1468.7	1478.0
60°	1518.0	1524.0	1574.0	1682.6	1843.9	1887.2	1665.3	1514.6	1404.7	1373.4	1387.4
62.5°	1072.9	1068.2	1104.2	1192.8	1337.4	1396.0	1238.1	1132.1	1062.8	1028.2	1036.2
65°	570.4	591.7	606.4	661.7	738.4	800.3	735.0	689.0	650.4	621.7	621.1
67.5°	385.2	382.5	385.9	398.5	424.5	441.8	440.4	417.2	413.8	408.5	414.5
70°	324.6	323.2	317.2	317.2	322.5	326.5	331.2	333.9	339.2	345.9	345.1
72.5°	263.2	259.9	255.9	253.8	260.6	262.5	268.6	271.2	275.9	275.2	281.2
75°	173.9	173.9	178.6	183.9	185.9	189.9	190.6	198.6	198.6	199.9	194.6
77.5°	97.3	94.6	98.0	103.3	108.0	115.3	122.6	128.6	131.9	130.6	130.6
80°	56.6	56.6	60.0	66.0	72.0	78.6	83.9	88.6	91.9	90.6	87.9
82.5°	35.3	35.3	38.7	44.6	49.3	53.3	60.6	66.6	70.6	69.3	66.0
85°	18.0	18.0	22.0	26.0	32.0	34.7	34.0	31.3	30.6	27.3	27.3
87.5°	4.7	4.7	6.7	7.4	6.0	6.7	6.7	6.7	6.7	6.7	7.4
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)