

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: P651159

Luminaire Tested: **GALN-SA1D-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651159
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-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 5810.5 lumens
Efficiency: N/A
Efficacy: 89.4 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

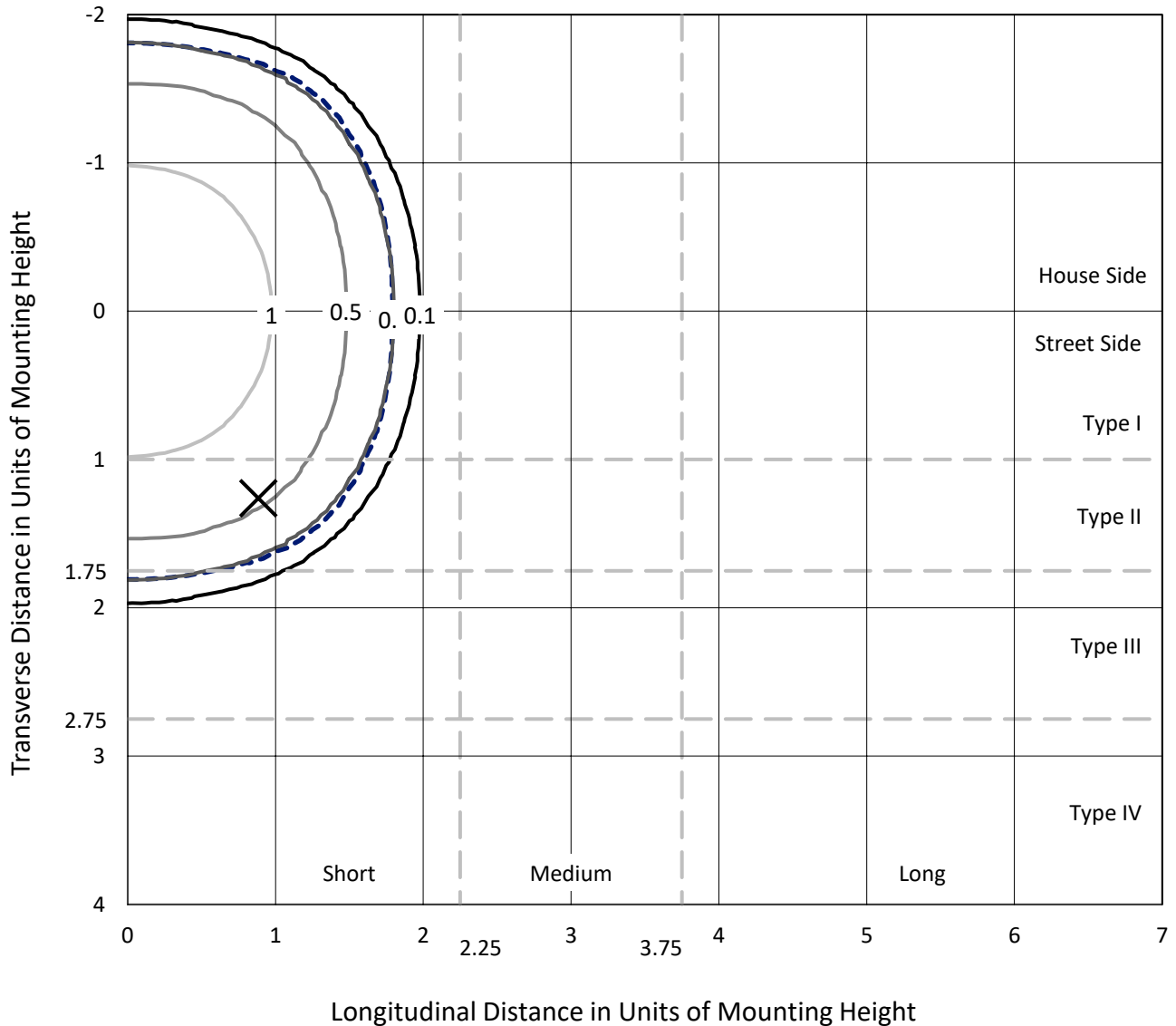
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

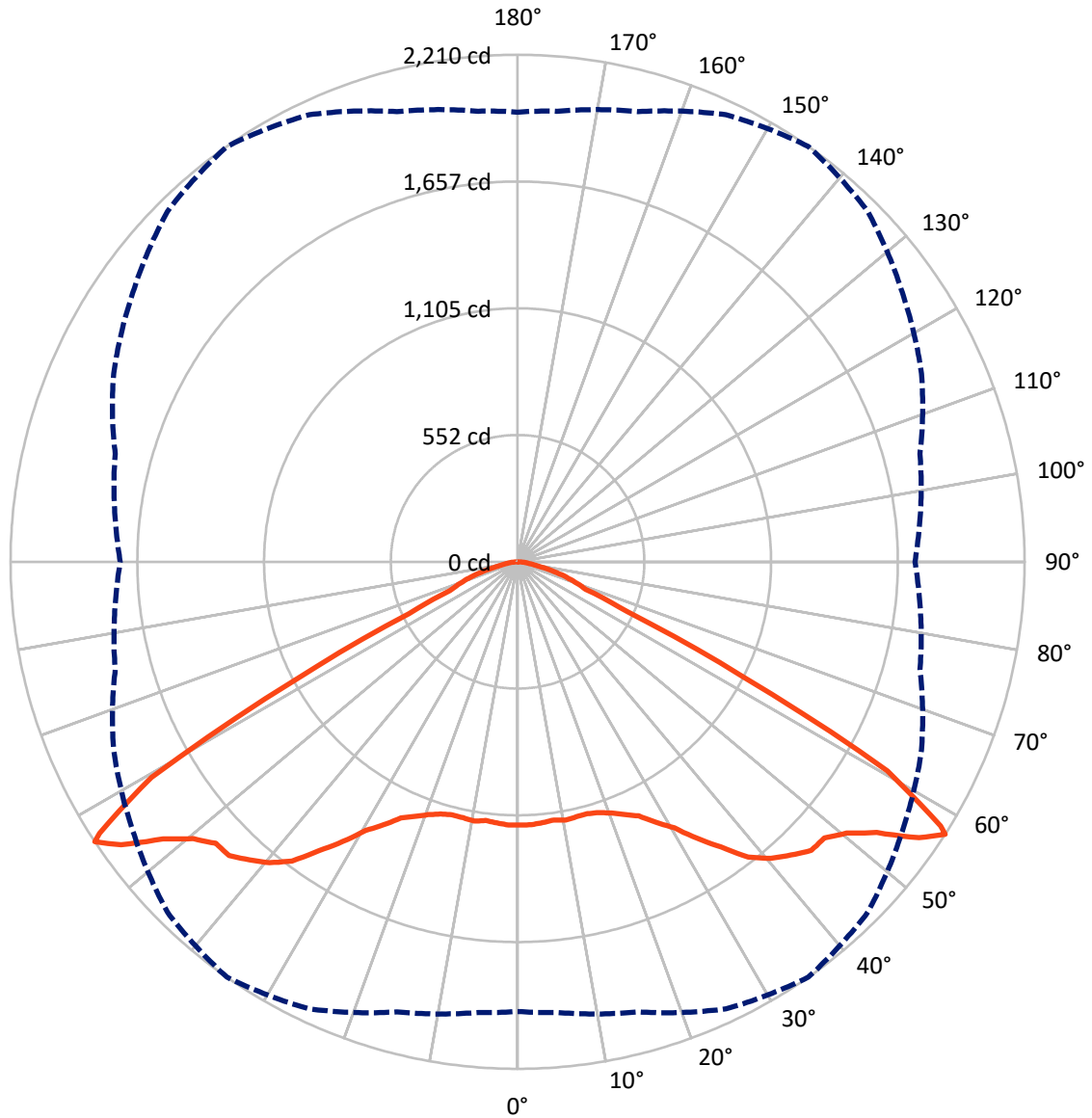
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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
House Side	Lumens	2905.2	0.0	2905.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2905.2	0.0	2905.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5810.5	0.0	5810.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.9
10°-20°	322.2	5.5
20°-30°	562.7	9.7
30°-40°	922.0	15.9
40°-50°	1351.9	23.3
50°-60°	1702.9	29.3
60°-70°	640.4	11.0
70°-80°	170.3	2.9
80°-90°	29.2	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°	5810.5	100.0
0°-180°	5810.5	100.0

Coefficient of Utilization



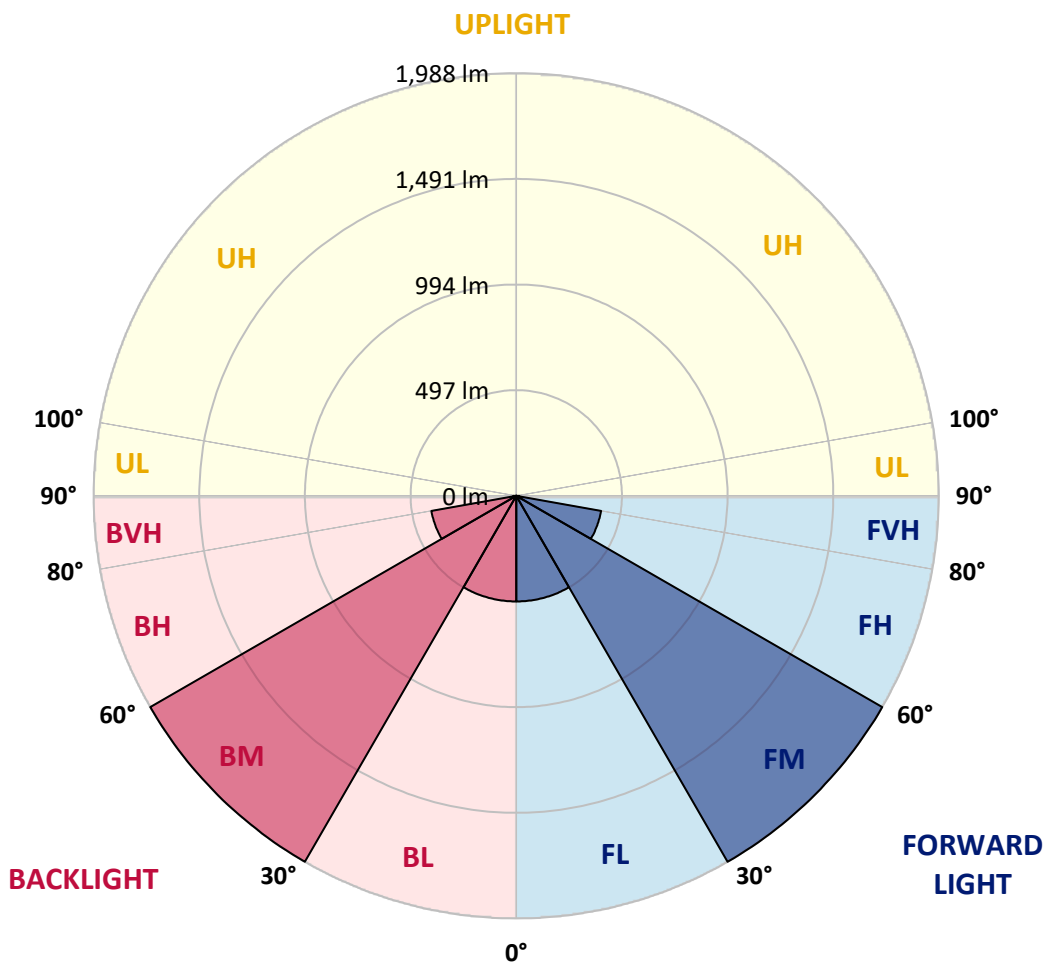
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.9	8.6			
FM (30°-60°)	1988.4	34.2			
FH (60°-80°)	405.4	7.0			G0/660
FVH (80°-90°)	14.6	0.3			G1/100
BL (0°-30°)	496.9	8.6	B1/500		
BM (30°-60°)	1988.4	34.2	B2/2500		
BH (60°-80°)	405.4	7.0	B1/500		G0/660
BVH (80°-90°)	14.6	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°	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5
2.5°	1141.8	1153.3	1148.2	1145.4	1147.5	1143.9	1138.2	1144.7	1143.3	1137.5	1135.4
5°	1139.0	1147.5	1141.8	1147.5	1141.8	1151.8	1149.0	1138.2	1151.1	1139.0	1143.3
7.5°	1136.8	1139.6	1141.1	1138.2	1136.1	1148.2	1141.8	1136.8	1129.6	1127.4	1131.1
10°	1131.8	1139.0	1128.2	1142.5	1145.4	1136.8	1136.8	1127.4	1121.7	1118.2	1130.3
12.5°	1144.7	1132.5	1131.1	1138.2	1140.4	1143.9	1133.9	1128.9	1118.2	1119.6	1117.4
15°	1129.6	1134.7	1135.4	1136.8	1139.0	1147.5	1138.2	1127.4	1123.2	1108.2	1109.6
17.5°	1135.4	1130.3	1135.4	1151.8	1149.0	1155.4	1145.4	1128.9	1118.9	1110.3	1121.7
20°	1145.4	1143.3	1145.4	1165.5	1169.0	1174.7	1166.1	1151.1	1131.8	1121.7	1127.4
22.5°	1156.1	1154.7	1156.1	1175.5	1196.2	1203.4	1194.8	1159.7	1149.6	1131.1	1124.6
25°	1175.5	1176.9	1191.9	1213.4	1227.0	1240.6	1224.8	1199.8	1167.6	1156.1	1142.5
27.5°	1218.4	1222.0	1230.6	1262.1	1285.7	1297.8	1275.6	1241.3	1221.3	1197.7	1194.1
30°	1271.3	1271.3	1286.4	1313.6	1345.9	1364.4	1337.2	1296.4	1272.1	1259.2	1251.3
32.5°	1341.6	1333.7	1339.4	1387.3	1437.4	1453.2	1416.7	1366.5	1327.9	1310.8	1305.0
35°	1401.7	1406.7	1419.5	1471.1	1526.9	1563.4	1506.1	1441.1	1401.7	1385.9	1383.0
37.5°	1479.7	1488.2	1494.7	1565.6	1632.9	1646.5	1591.3	1539.1	1491.2	1478.2	1471.1
40°	1589.9	1584.2	1586.4	1638.6	1699.5	1708.1	1653.7	1616.4	1577.0	1569.1	1569.1
42.5°	1680.8	1674.4	1681.6	1700.9	1747.4	1741.0	1710.9	1683.7	1667.2	1658.6	1667.2
45°	1736.0	1734.6	1747.4	1761.7	1794.7	1773.2	1749.5	1753.8	1738.1	1723.8	1723.0
47.5°	1796.1	1786.8	1802.5	1824.0	1799.0	1789.0	1787.5	1796.8	1791.8	1766.8	1758.9
50°	1825.5	1821.9	1846.9	1872.0	1858.4	1835.5	1840.4	1855.5	1791.1	1757.4	1738.1
52.5°	1904.2	1904.9	1952.9	1966.5	1960.7	1927.1	1937.8	1897.0	1821.2	1773.9	1776.0
55°	2028.1	2023.0	2076.7	2116.8	2123.3	2080.3	2028.7	1971.5	1876.3	1828.3	1814.0
57°	1960.0	1971.5	2030.9	2149.8	2209.9	2159.0	2046.7	1942.1	1815.4	1757.4	1731.7
57.5°	1869.1	1887.7	1990.8	2110.3	2173.3	2169.0	2024.5	1887.7	1774.6	1684.4	1686.5
60°	1369.4	1373.0	1466.1	1655.8	1852.6	1856.9	1680.8	1499.8	1373.8	1275.6	1289.3
62.5°	722.3	738.7	776.0	928.5	1098.9	1140.4	1033.7	940.7	831.8	757.4	764.6
65°	382.2	380.1	398.0	440.9	524.7	546.2	531.8	458.2	420.2	408.1	408.7
67.5°	310.7	314.3	312.1	314.3	320.0	329.3	327.1	330.0	332.2	335.7	335.1
70°	263.4	263.4	264.8	265.6	265.6	269.9	274.9	284.2	284.9	288.5	289.9
72.5°	207.6	206.1	208.3	213.4	214.0	217.7	224.8	230.5	232.6	232.6	228.3
75°	141.0	142.5	145.3	149.6	153.9	160.4	166.1	169.6	171.1	169.0	166.8
77.5°	79.5	80.9	83.0	89.5	94.5	100.2	106.6	110.3	113.8	114.5	110.3
80°	47.3	47.3	50.8	55.8	61.6	67.3	73.0	77.3	78.7	78.7	76.6
82.5°	28.6	29.4	32.2	37.3	42.2	45.8	50.8	54.4	57.3	56.5	55.1
85°	15.1	15.1	17.9	22.2	25.7	29.4	29.4	27.2	25.7	22.2	20.8
87.5°	5.0	4.3	5.7	5.7	5.0	5.7	5.7	6.5	6.5	6.5	6.5
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)