

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: P527134

Luminaire Tested: **GALN-SA2A-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527134
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-SA2A-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5736 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

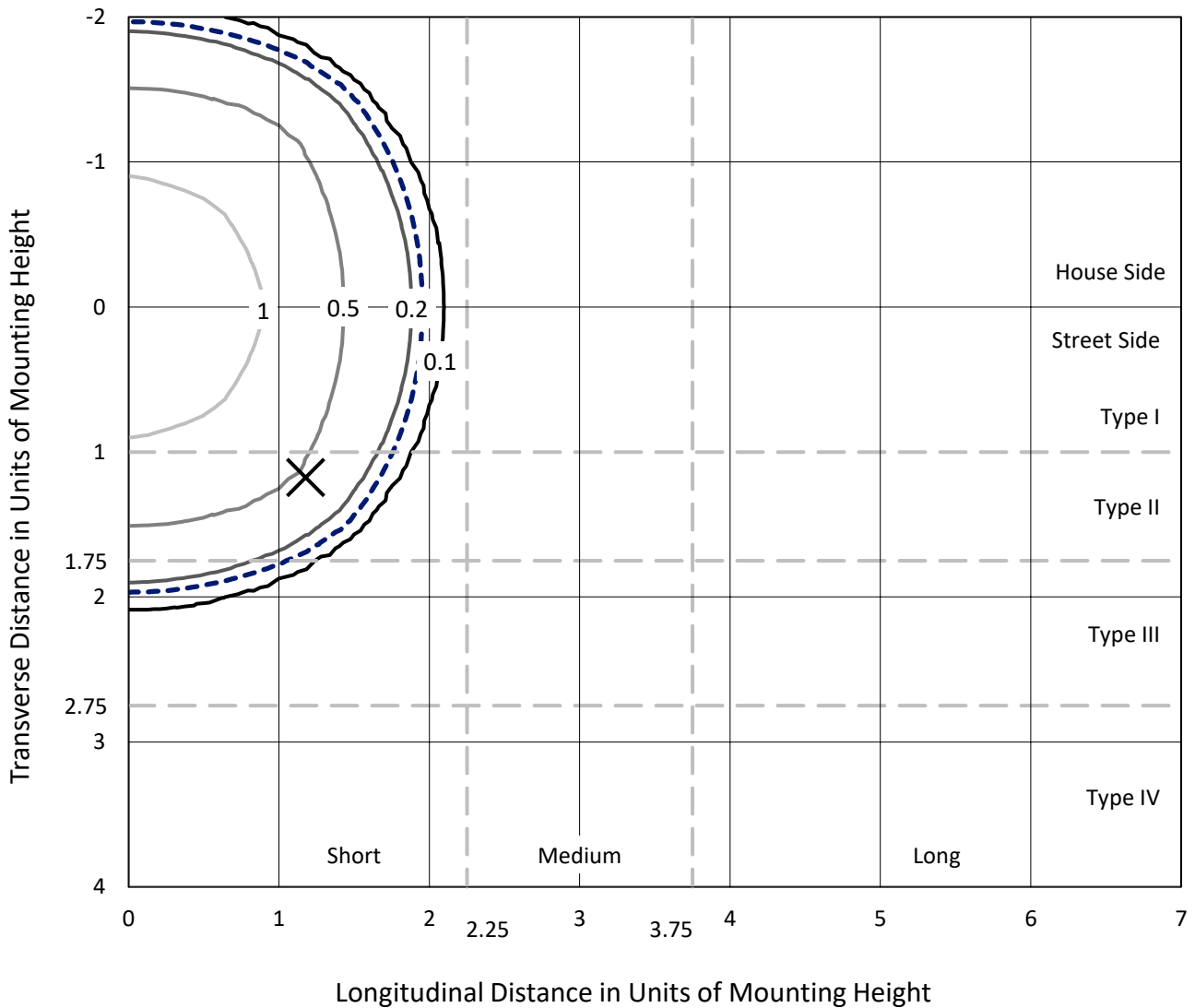
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527134
 CATALOG NUMBER: GALN-SA2A-827-U-5WQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

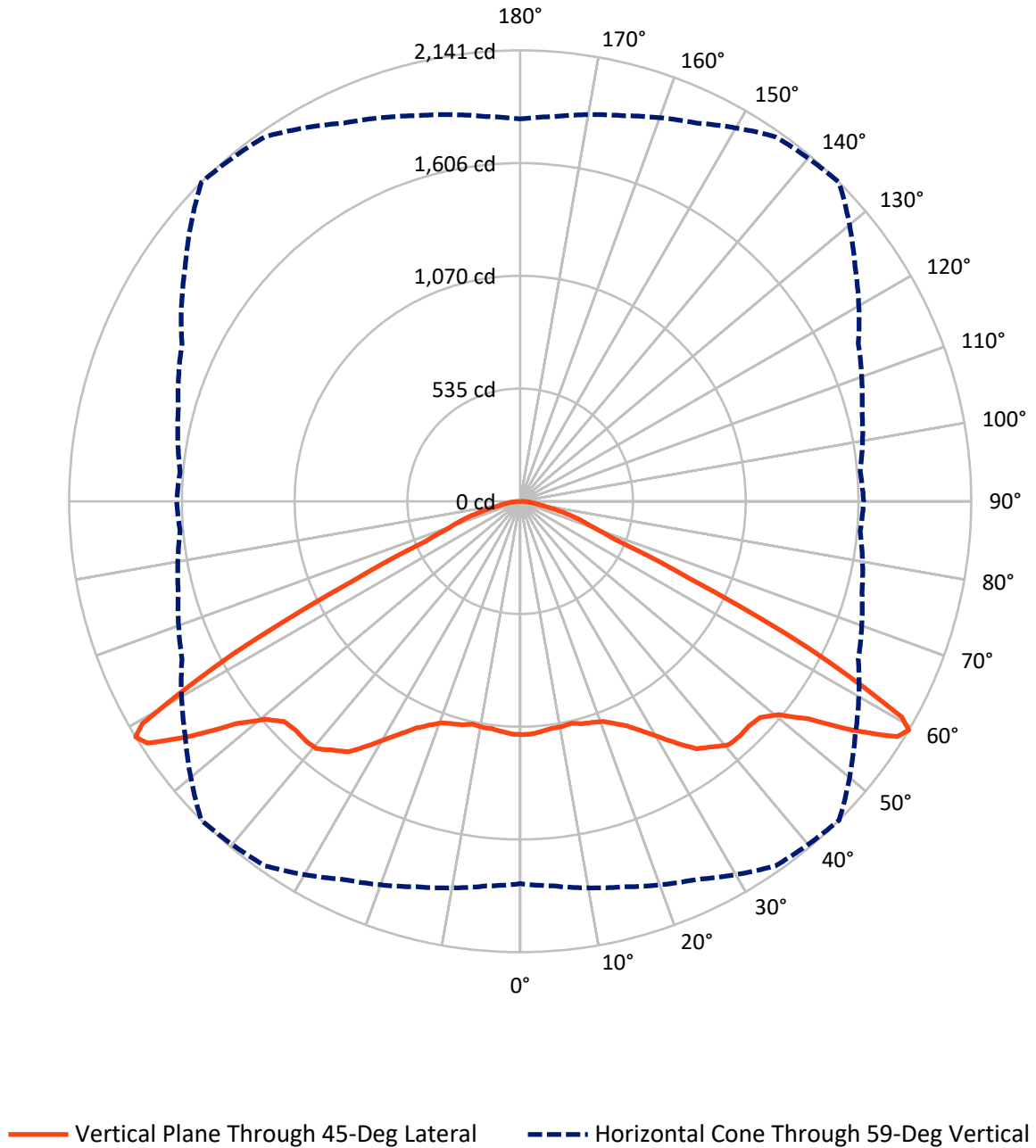
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - N/A

REPORT NUMBER: P527134
CATALOG NUMBER: GALN-SA2A-827-U-5WQ-GRSWH

Luminous Intensity Polar Plot



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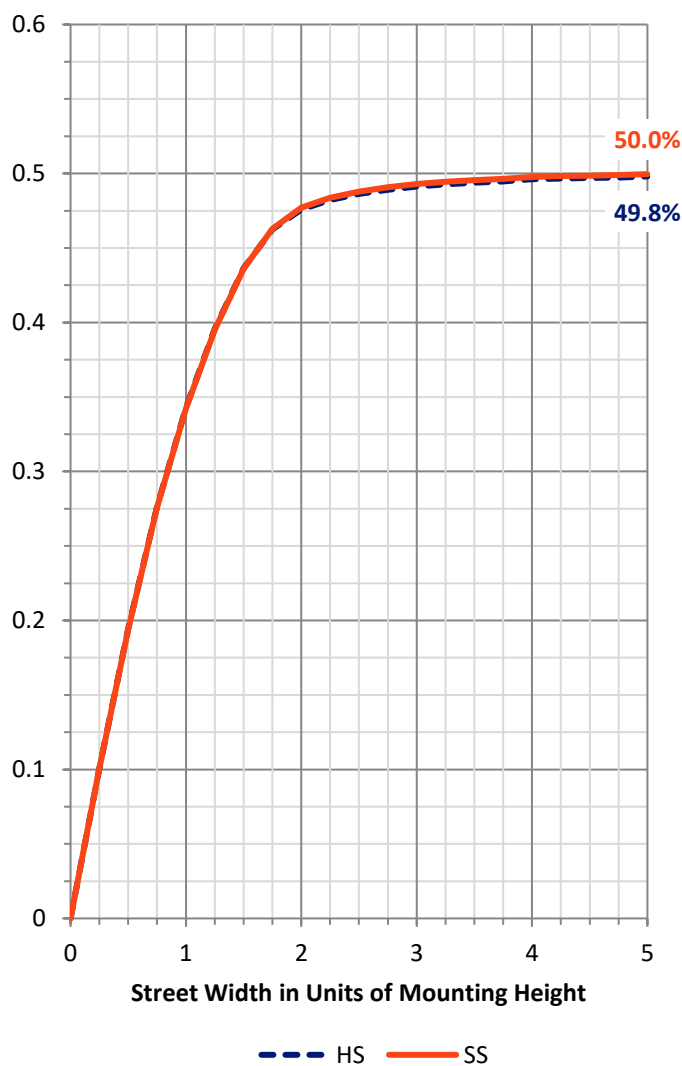
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2868.0	0.0	2868.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2868.0	0.0	2868.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5736.0	0.0	5736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	1.8
10°-20°	310.6	5.4
20°-30°	542.3	9.5
30°-40°	866.2	15.1
40°-50°	1179.9	20.6
50°-60°	1595.5	27.8
60°-70°	875.0	15.3
70°-80°	223.9	3.9
80°-90°	38.2	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°	5736.0	100.0
0°-180°	5736.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527134

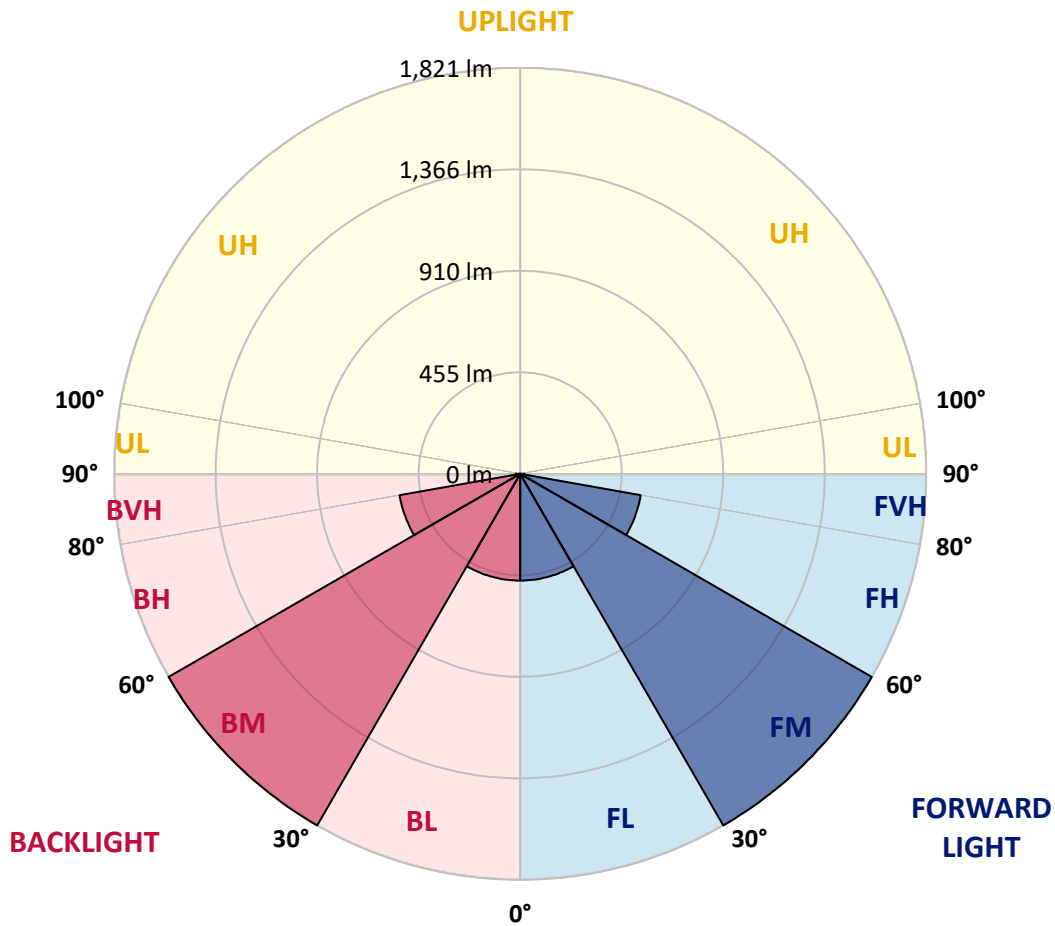
CATALOG NUMBER: GALN-SA2A-827-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.7	8.3			
FM (30°-60°)	1820.8	31.7			
FH (60°-80°)	549.4	9.6			G0/660
FVH (80°-90°)	19.1	0.3			G1/100
BL (0°-30°)	478.7	8.3	B1/500		
BM (30°-60°)	1820.8	31.7	B2/2500		
BH (60°-80°)	549.4	9.6	B2/1000		G0/660
BVH (80°-90°)	19.1	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°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1101.3	1109.4	1103.5	1108.7	1107.9	1105.7	1102.0	1099.8	1096.9	1101.3	1094.0
5°	1096.9	1103.5	1110.1	1101.3	1101.3	1096.9	1094.7	1090.3	1090.3	1089.5	1088.8
7.5°	1104.2	1097.6	1094.7	1096.2	1097.6	1088.1	1094.7	1085.9	1078.5	1083.7	1089.5
10°	1097.6	1100.6	1089.5	1094.7	1086.6	1088.1	1083.7	1089.5	1081.5	1081.5	1081.5
12.5°	1104.2	1096.2	1099.8	1096.2	1094.0	1081.5	1087.3	1080.7	1080.0	1087.3	1080.7
15°	1117.5	1104.2	1101.3	1094.0	1096.2	1096.2	1090.3	1091.0	1082.9	1087.3	1088.8
17.5°	1113.1	1105.7	1103.5	1094.7	1102.0	1104.2	1093.2	1085.9	1091.0	1090.3	1089.5
20°	1116.7	1119.7	1117.5	1118.9	1121.9	1116.0	1105.7	1095.4	1088.8	1098.4	1097.6
22.5°	1140.3	1137.3	1135.9	1134.4	1139.5	1145.4	1131.4	1115.3	1115.3	1121.9	1124.8
25°	1159.4	1158.6	1157.9	1164.5	1182.2	1182.2	1164.5	1143.9	1138.8	1143.2	1139.5
27.5°	1187.3	1195.4	1192.5	1204.2	1230.0	1235.8	1212.3	1188.1	1174.1	1168.9	1175.6
30°	1251.3	1241.7	1243.9	1256.4	1279.2	1298.3	1262.3	1236.6	1217.5	1216.7	1219.7
32.5°	1293.9	1301.3	1307.9	1319.7	1355.7	1370.4	1327.0	1285.1	1273.3	1266.7	1268.9
35°	1379.2	1372.6	1371.1	1382.9	1418.9	1443.2	1388.8	1352.0	1336.6	1351.3	1351.3
37.5°	1460.1	1441.7	1427.7	1443.2	1476.2	1479.2	1432.9	1413.0	1404.9	1421.8	1421.1
40°	1498.3	1496.8	1464.5	1473.3	1517.4	1521.8	1478.5	1454.9	1453.5	1475.5	1497.6
42.5°	1538.0	1524.0	1491.7	1497.6	1524.8	1526.2	1485.1	1478.5	1494.6	1515.9	1517.4
45°	1544.6	1532.9	1512.3	1497.6	1517.4	1521.8	1497.6	1502.0	1503.4	1529.2	1529.2
47.5°	1557.9	1556.4	1544.6	1533.6	1537.3	1533.6	1518.2	1524.8	1546.8	1559.3	1553.4
50°	1594.6	1579.2	1590.9	1581.4	1582.1	1592.4	1578.4	1585.1	1580.6	1569.6	1562.3
52.5°	1675.5	1668.1	1678.4	1685.0	1692.4	1715.9	1699.7	1664.5	1631.4	1602.0	1601.2
55°	1793.8	1799.0	1818.8	1852.7	1881.3	1918.8	1840.9	1756.4	1703.4	1657.1	1660.0
57.5°	1905.6	1901.9	1929.1	2006.3	2090.1	2109.2	1956.3	1835.8	1749.7	1720.3	1707.8
59°	1815.9	1833.5	1895.3	1981.3	2112.9	2140.9	1940.9	1771.1	1679.9	1620.3	1630.6
60°	1674.7	1681.4	1736.5	1856.3	2034.3	2082.0	1837.2	1671.1	1549.8	1515.2	1530.7
62.5°	1183.6	1178.5	1218.2	1316.0	1475.5	1540.2	1366.0	1249.1	1172.6	1134.4	1143.2
65°	629.3	652.8	669.0	730.0	814.6	883.0	810.9	760.2	717.5	685.9	685.2
67.5°	424.9	422.0	425.7	439.6	468.3	487.4	486.0	460.2	456.5	450.7	457.3
70°	358.0	356.6	349.9	349.9	355.8	360.2	365.4	368.3	374.2	381.6	380.8
72.5°	290.4	286.7	282.3	280.1	287.5	289.7	296.3	299.2	304.4	303.6	310.2
75°	191.9	191.9	197.0	202.9	205.1	209.5	210.3	219.1	219.1	220.6	214.7
77.5°	107.3	104.4	108.1	114.0	119.1	127.2	135.3	141.9	145.6	144.1	144.1
80°	62.5	62.5	66.2	72.8	79.4	86.8	92.6	97.8	101.5	100.0	97.0
82.5°	39.0	39.0	42.6	49.3	54.4	58.8	66.9	73.5	77.9	76.5	72.8
85°	19.8	19.8	24.3	28.7	35.3	38.2	37.5	34.6	33.8	30.1	30.1
87.5°	5.1	5.1	7.4	8.1	6.6	7.4	7.4	7.4	7.4	7.4	8.1
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)