

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: P458689

Luminaire Tested: **GALN-SA2C-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13784 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

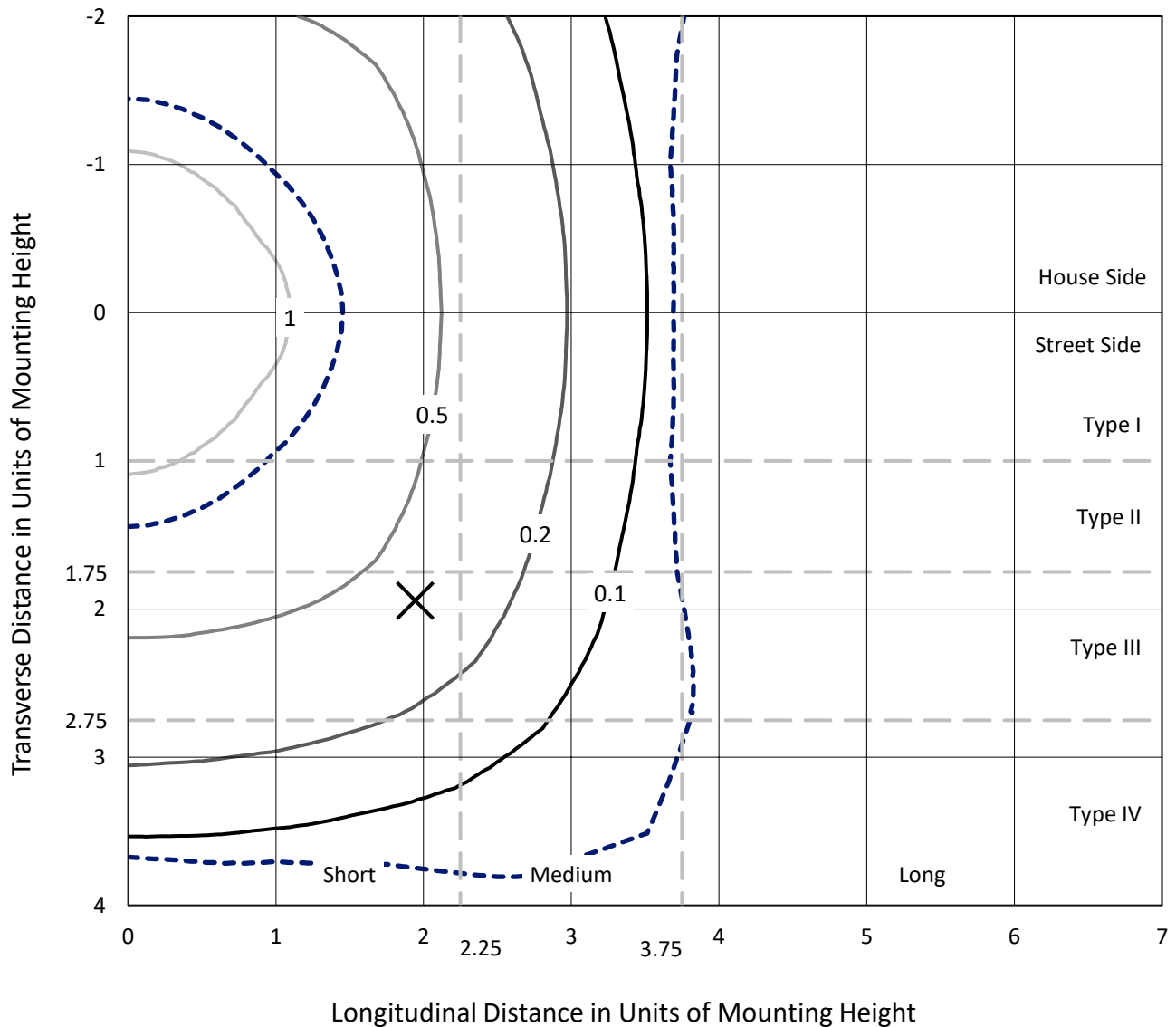
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458689
 CATALOG NUMBER: GALN-SA2C-735-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

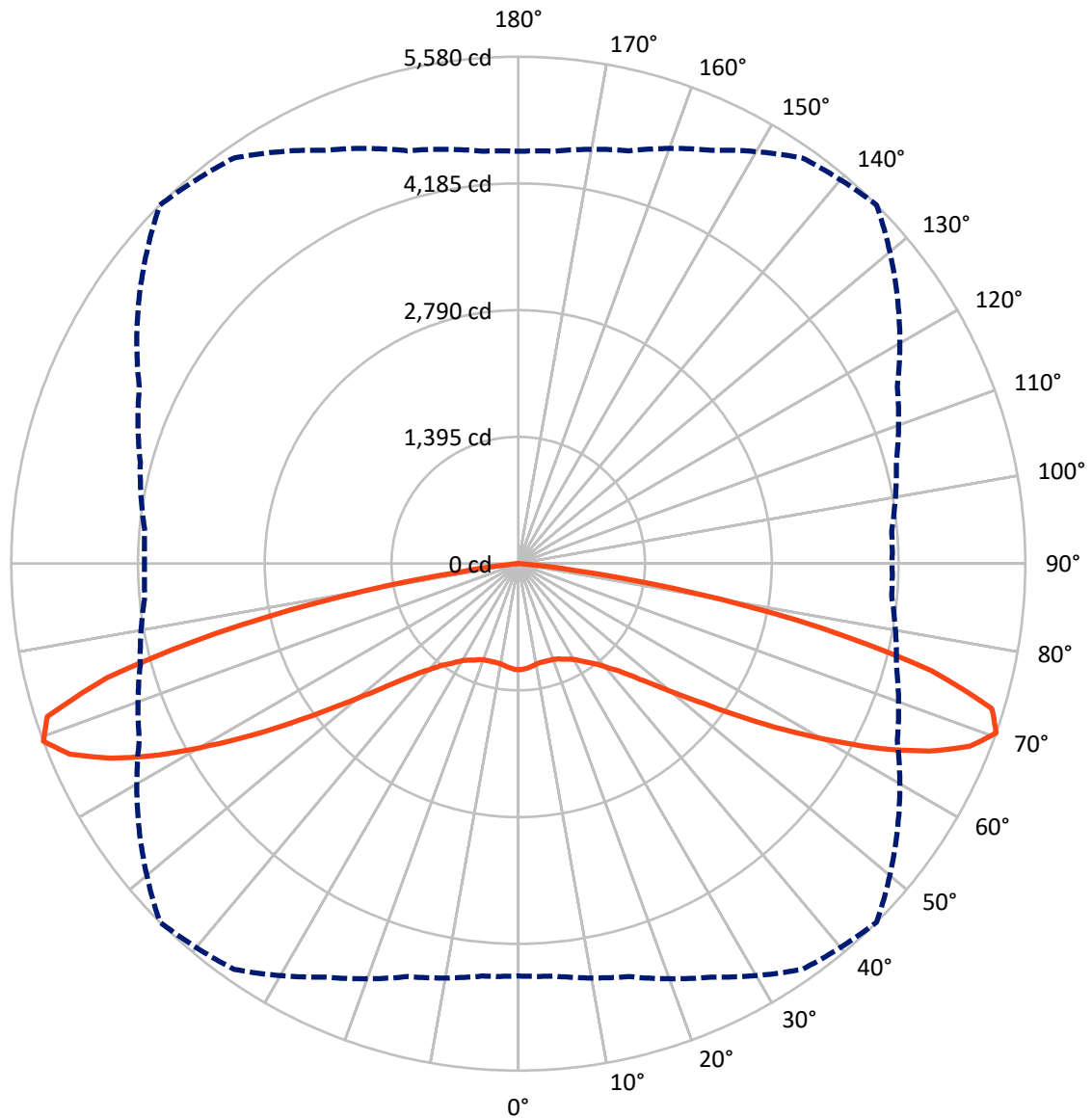
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

REPORT NUMBER: P458689
CATALOG NUMBER: GALN-SA2C-735-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P458689

CATALOG NUMBER: GALN-SA2C-735-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6892.0	0.0	6892.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6892.0	0.0	6892.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13784.0	0.0	13784.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	0.8
10°-20°	319.5	2.3
20°-30°	544.4	3.9
30°-40°	843.7	6.1
40°-50°	1420.1	10.3
50°-60°	2583.9	18.7
60°-70°	4374.4	31.7
70°-80°	3386.0	24.6
80°-90°	202.9	1.5
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°	13784.0	100.0
0°-180°	13784.0	100.0



REPORT NUMBER: P458689

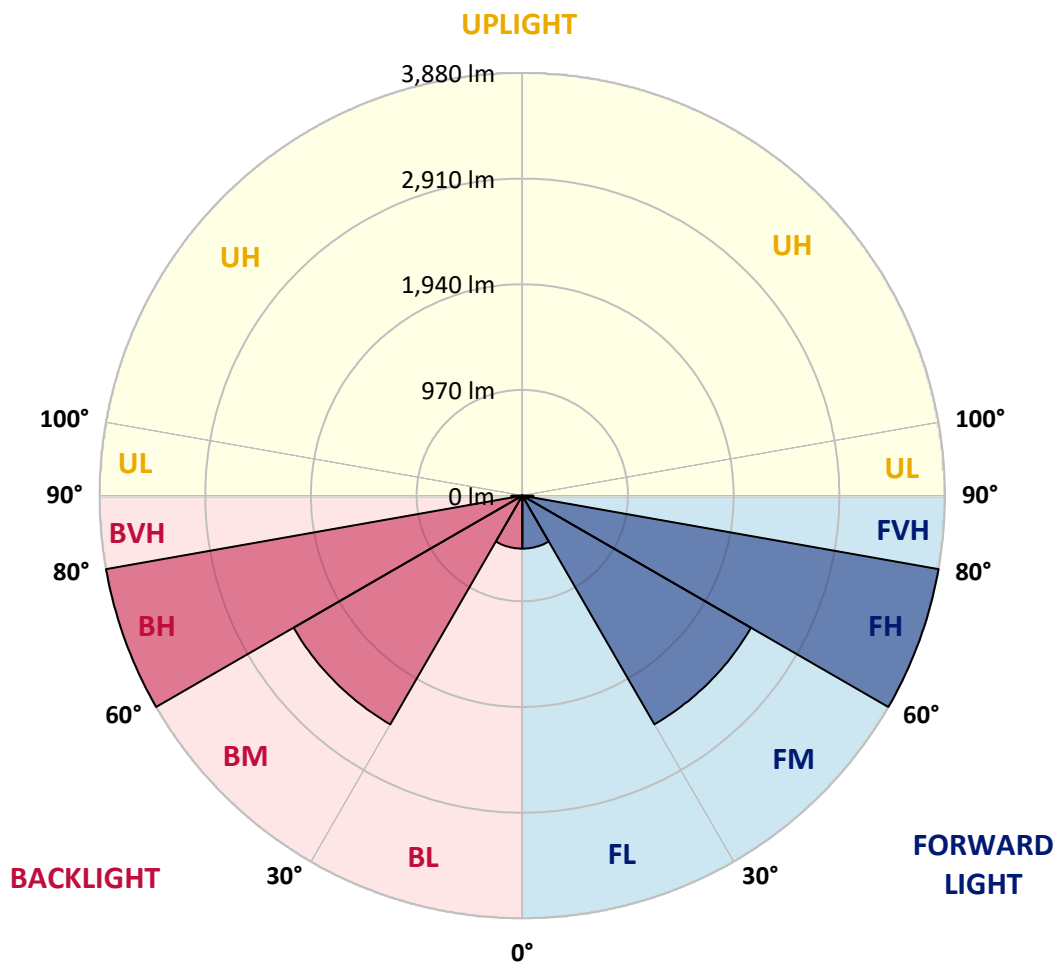
CATALOG NUMBER: GALN-SA2C-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.5	3.5			
FM (30°-60°)	2423.9	17.6			
FH (60°-80°)	3880.2	28.1			G2/5000
FVH (80°-90°)	101.4	0.7			G2/225
BL (0°-30°)	486.5	3.5	B1/500		
BM (30°-60°)	2423.9	17.6	B2/2500		
BH (60°-80°)	3880.2	28.1	B4/5000		G2/5000
BVH (80°-90°)	101.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P458689

CATALOG NUMBER: GALN-SA2C-735-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0	1167.0
2.5°	1164.1	1164.8	1164.8	1163.3	1162.6	1162.6	1161.9	1161.9	1164.1	1164.8	1165.5
5°	1153.9	1153.9	1153.9	1153.2	1151.7	1151.7	1150.2	1150.2	1151.0	1153.2	1151.7
7.5°	1140.0	1141.5	1141.5	1138.6	1136.4	1136.4	1135.7	1136.4	1137.1	1139.3	1138.6
10°	1135.7	1136.4	1132.8	1127.7	1124.0	1121.8	1122.6	1124.0	1127.7	1129.1	1129.9
12.5°	1138.6	1138.6	1132.0	1124.8	1118.2	1115.3	1114.6	1119.7	1126.2	1130.6	1132.0
15°	1142.2	1140.8	1132.8	1123.3	1116.8	1116.0	1115.3	1118.9	1128.4	1137.1	1137.9
17.5°	1144.4	1143.7	1133.5	1121.8	1118.2	1118.2	1117.5	1120.4	1130.6	1141.5	1142.2
20°	1151.7	1149.5	1137.9	1125.5	1122.6	1124.0	1121.8	1125.5	1136.4	1149.5	1152.4
22.5°	1166.3	1164.1	1152.4	1140.0	1138.6	1138.6	1137.9	1141.5	1153.2	1167.0	1169.2
25°	1183.7	1181.5	1170.6	1161.9	1163.3	1166.3	1164.8	1165.5	1175.0	1186.6	1190.3
27.5°	1207.0	1203.4	1193.9	1186.6	1191.0	1191.0	1191.0	1190.3	1196.1	1207.0	1210.7
30°	1235.4	1234.0	1223.8	1223.0	1226.7	1223.0	1223.0	1223.8	1224.5	1234.7	1238.3
32.5°	1272.5	1269.6	1264.5	1263.1	1273.3	1276.2	1266.0	1256.5	1261.6	1271.8	1274.0
35°	1333.7	1329.3	1322.0	1314.0	1322.0	1335.9	1314.0	1306.8	1319.9	1333.7	1335.2
37.5°	1416.7	1414.5	1402.9	1388.3	1387.6	1402.1	1379.6	1378.8	1403.6	1420.3	1422.5
40°	1520.8	1523.0	1508.4	1494.6	1487.3	1499.0	1481.5	1488.0	1512.1	1531.0	1529.5
42.5°	1667.1	1659.1	1636.5	1623.4	1615.4	1611.1	1606.7	1616.9	1643.8	1664.2	1680.2
45°	1838.2	1835.3	1806.9	1790.9	1773.4	1766.9	1765.4	1783.6	1816.4	1841.1	1843.3
47.5°	2031.8	2025.3	2007.1	1990.4	1983.8	1975.8	1968.5	1982.3	2015.1	2032.6	2037.7
50°	2231.3	2232.8	2232.8	2229.9	2236.4	2237.9	2218.2	2223.3	2241.5	2240.1	2238.6
52.5°	2459.2	2467.2	2505.0	2508.7	2540.0	2561.1	2525.4	2504.3	2497.8	2458.5	2461.4
55°	2727.1	2734.4	2791.2	2847.9	2932.4	2968.1	2893.1	2827.6	2781.0	2721.3	2724.2
57.5°	3061.2	3064.9	3118.8	3228.0	3361.9	3445.6	3313.9	3184.3	3089.6	3032.8	3010.3
60°	3420.9	3424.5	3503.1	3636.4	3844.6	3946.5	3783.4	3571.6	3452.2	3365.5	3371.4
62.5°	3852.6	3867.1	3937.8	4121.2	4373.8	4488.1	4271.9	3988.7	3827.1	3719.4	3723.7
65°	4314.9	4339.6	4416.8	4618.4	4851.4	4974.4	4709.4	4382.6	4181.6	4049.9	4063.7
67.5°	4614.8	4636.6	4748.0	4970.8	5261.3	5363.2	5021.0	4640.3	4389.1	4231.9	4202.7
70°	4538.4	4556.6	4705.1	5021.0	5451.3	5580.1	5095.3	4602.4	4306.8	4125.6	4113.9
72.5°	4006.2	3968.3	4185.3	4638.8	5234.3	5450.5	4861.6	4203.5	3831.5	3645.1	3623.3
75°	2655.0	2737.3	3057.6	3592.0	4428.4	4696.3	4149.6	3375.0	2906.9	2751.8	2727.8
77.5°	887.4	950.8	1235.4	2036.2	3019.0	3421.6	3023.4	2207.3	1561.6	1258.0	1263.8
80°	235.1	232.2	300.7	559.8	1304.6	1981.6	1518.6	747.7	409.1	296.3	281.0
82.5°	84.4	94.6	121.6	155.1	345.8	615.9	434.6	209.7	153.6	113.6	109.9
85°	37.1	36.4	52.4	61.9	86.6	115.0	101.9	88.8	77.9	51.7	48.0
87.5°	8.0	8.0	12.4	9.5	15.3	15.3	18.9	22.6	23.3	15.3	12.4
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)