

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: P650726

Luminaire Tested: **GALN-SA2C-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650726
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-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 12444.3 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

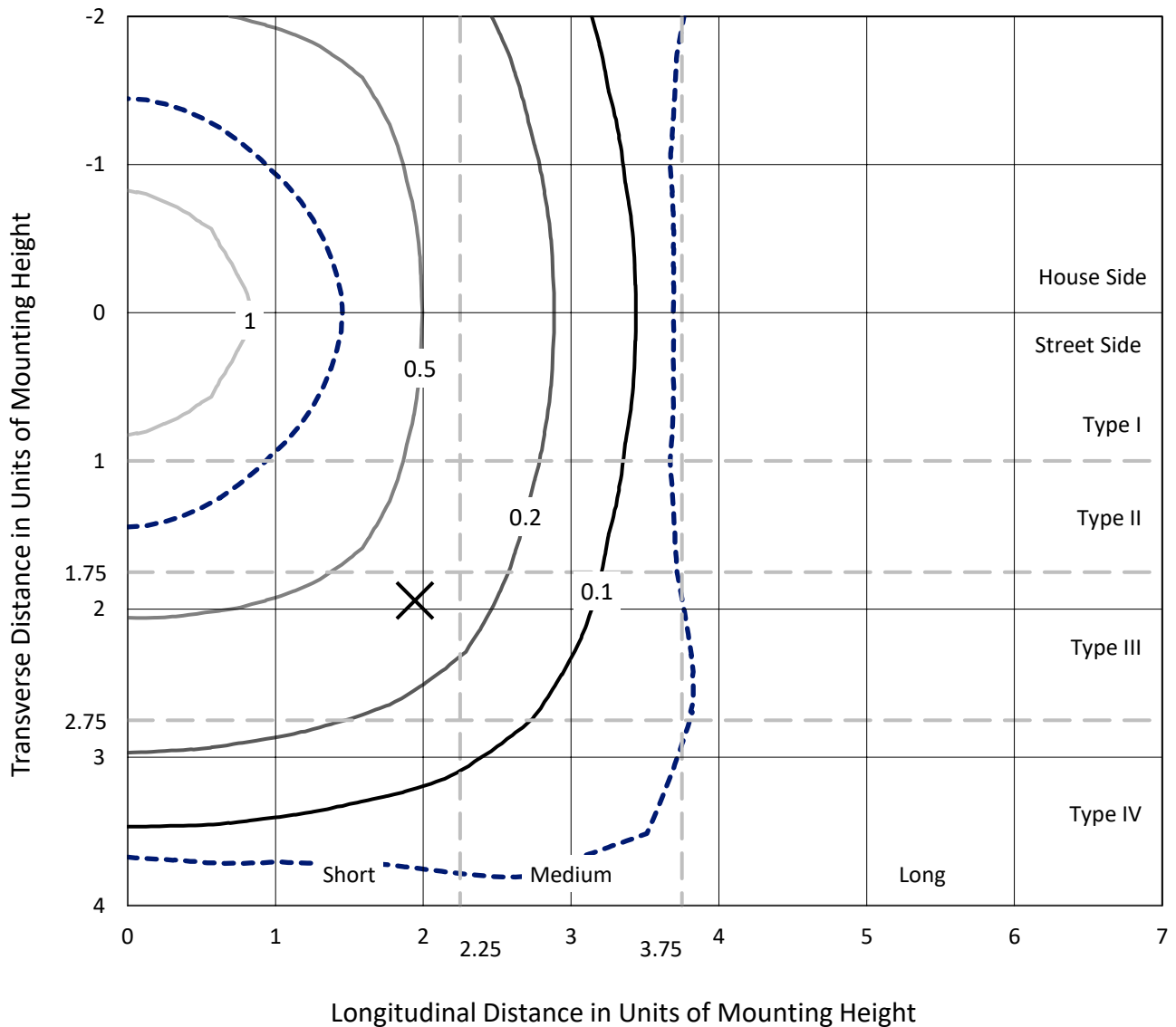
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

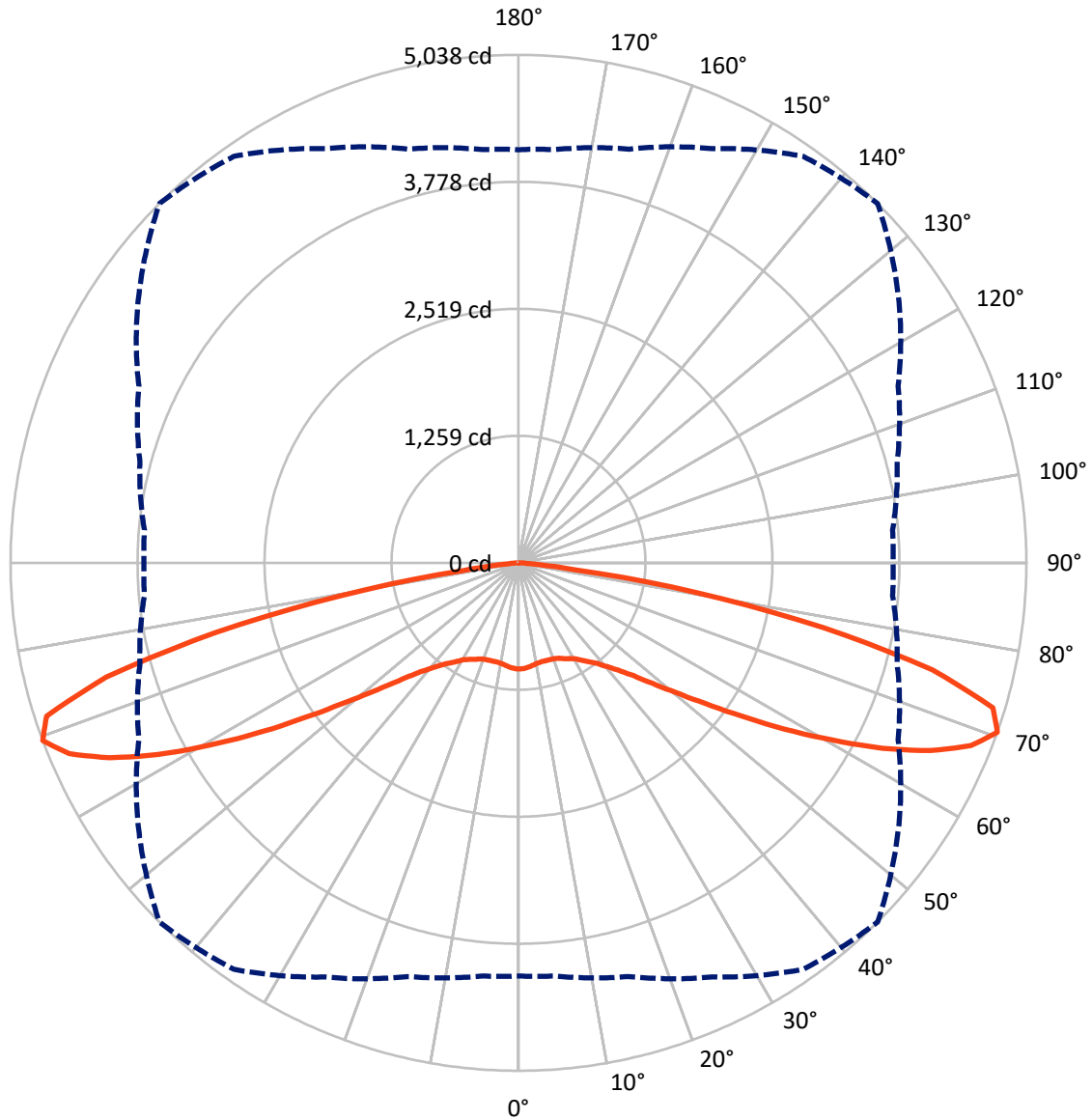
× Max cd
 - - - 1/2 Max cd



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

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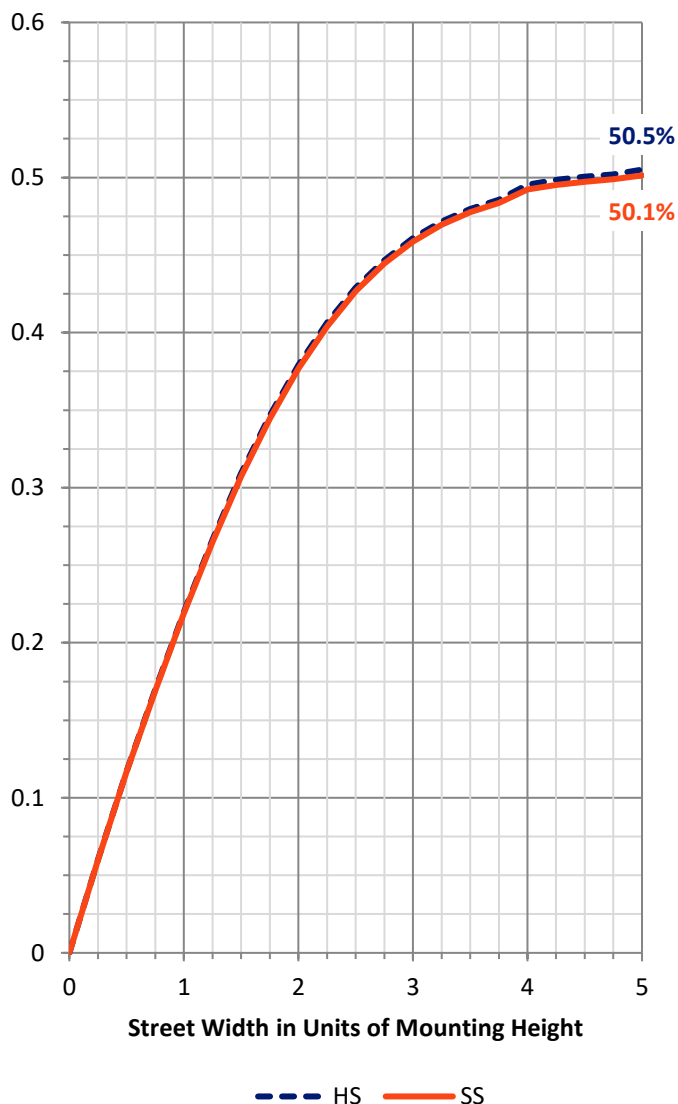
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6222.1	0.0	6222.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6222.1	0.0	6222.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12444.3	0.0	12444.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	0.8
10°-20°	288.4	2.3
20°-30°	491.4	3.9
30°-40°	761.7	6.1
40°-50°	1282.1	10.3
50°-60°	2332.7	18.7
60°-70°	3949.2	31.7
70°-80°	3056.9	24.6
80°-90°	183.2	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°	12444.3	100.0
0°-180°	12444.3	100.0

Coefficient of Utilization

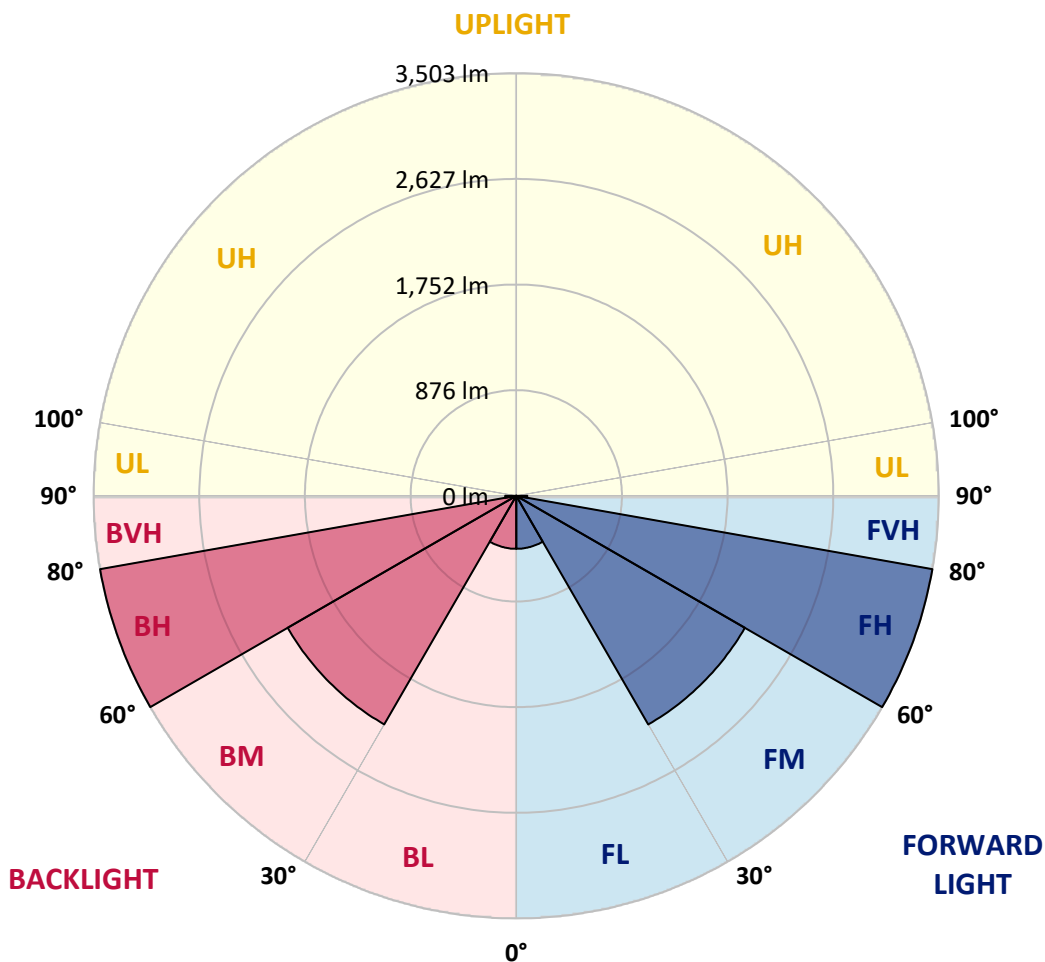


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.2	3.5			
FM (30°-60°)	2188.3	17.6			
FH (60°-80°)	3503.1	28.1			G2/5000
FVH (80°-90°)	91.6	0.7			G1/100
BL (0°-30°)	439.2	3.5	B1/500		
BM (30°-60°)	2188.3	17.6	B2/2500		
BH (60°-80°)	3503.1	28.1	B4/5000		G2/5000
BVH (80°-90°)	91.6	0.7			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5
2.5°	1050.9	1051.6	1051.6	1050.2	1049.7	1049.7	1049.0	1049.0	1050.9	1051.6	1052.3
5°	1041.7	1041.7	1041.7	1041.1	1039.7	1039.7	1038.5	1038.5	1039.1	1041.1	1039.7
7.5°	1029.2	1030.6	1030.6	1028.0	1025.9	1025.9	1025.3	1025.9	1026.6	1028.6	1028.0
10°	1025.3	1025.9	1022.7	1018.0	1014.8	1012.8	1013.5	1014.8	1018.0	1019.4	1020.0
12.5°	1028.0	1028.0	1022.0	1015.4	1009.5	1006.9	1006.3	1010.8	1016.8	1020.7	1022.0
15°	1031.2	1029.9	1022.7	1014.2	1008.2	1007.5	1006.9	1010.2	1018.7	1026.6	1027.3
17.5°	1033.2	1032.5	1023.3	1012.8	1009.5	1009.5	1008.9	1011.5	1020.7	1030.6	1031.2
20°	1039.7	1037.8	1027.3	1016.1	1013.5	1014.8	1012.8	1016.1	1025.9	1037.8	1040.4
22.5°	1052.9	1050.9	1040.4	1029.2	1028.0	1028.0	1027.3	1030.6	1041.1	1053.5	1055.5
25°	1068.7	1066.7	1056.9	1049.0	1050.2	1052.9	1051.6	1052.3	1060.8	1071.3	1074.6
27.5°	1089.7	1086.4	1077.9	1071.3	1075.2	1075.2	1075.2	1074.6	1079.8	1089.7	1093.0
30°	1115.3	1114.0	1104.8	1104.1	1107.4	1104.1	1104.1	1104.8	1105.5	1114.7	1117.9
32.5°	1148.9	1146.2	1141.7	1140.3	1149.5	1152.2	1142.9	1134.4	1139.0	1148.2	1150.2
35°	1204.1	1200.1	1193.5	1186.3	1193.5	1206.1	1186.3	1179.8	1191.6	1204.1	1205.4
37.5°	1279.0	1277.1	1266.5	1253.3	1252.7	1265.9	1245.4	1244.8	1267.1	1282.3	1284.3
40°	1373.0	1375.0	1361.8	1349.3	1342.7	1353.3	1337.5	1343.4	1365.1	1382.2	1380.8
42.5°	1505.1	1497.8	1477.5	1465.6	1458.5	1454.5	1450.6	1459.7	1484.0	1502.4	1516.9
45°	1659.5	1656.9	1631.3	1616.8	1601.0	1595.1	1593.8	1610.3	1639.8	1662.2	1664.2
47.5°	1834.4	1828.4	1812.0	1796.9	1791.0	1783.8	1777.2	1789.6	1819.3	1835.1	1839.6
50°	2014.4	2015.8	2015.8	2013.1	2019.1	2020.3	2002.6	2007.2	2023.6	2022.4	2021.0
52.5°	2220.2	2227.4	2261.5	2264.9	2293.2	2312.2	2280.0	2260.9	2255.0	2219.5	2222.2
55°	2462.0	2468.6	2519.9	2571.1	2647.4	2679.6	2611.9	2552.8	2510.6	2456.8	2459.4
57.5°	2763.7	2767.0	2815.7	2914.2	3035.2	3110.7	2991.8	2874.8	2789.3	2738.0	2717.7
60°	3088.4	3091.7	3162.7	3282.9	3470.9	3562.9	3415.7	3224.4	3116.7	3038.4	3043.7
62.5°	3478.1	3491.2	3555.0	3720.7	3948.7	4051.9	3856.7	3601.0	3455.2	3357.9	3361.8
65°	3895.5	3917.8	3987.5	4169.5	4379.8	4490.9	4251.7	3956.6	3775.2	3656.2	3668.7
67.5°	4166.2	4186.0	4286.6	4487.7	4749.9	4841.9	4533.0	4189.3	3962.5	3820.6	3794.3
70°	4097.3	4113.7	4247.7	4533.0	4921.4	5037.8	4600.0	4155.1	3888.3	3724.6	3714.1
72.5°	3616.8	3582.7	3778.5	4187.9	4725.6	4920.8	4389.1	3794.9	3459.0	3290.8	3271.1
75°	2396.9	2471.2	2760.4	3242.8	3998.0	4239.9	3746.3	3046.9	2624.3	2484.4	2462.7
77.5°	801.2	858.3	1115.3	1838.3	2725.6	3089.1	2729.5	1992.7	1409.8	1135.7	1141.0
80°	212.3	209.7	271.5	505.4	1177.8	1789.0	1371.0	675.0	369.4	267.5	253.7
82.5°	76.3	85.4	109.8	140.0	312.2	556.1	392.4	189.3	138.7	102.5	99.2
85°	33.6	32.9	47.3	55.8	78.2	103.9	92.0	80.1	70.3	46.7	43.4
87.5°	7.2	7.2	11.2	8.6	13.8	13.8	17.1	20.4	21.0	13.8	11.2
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)