

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: P451176

Luminaire Tested: **GALN-SA2A-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9645 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

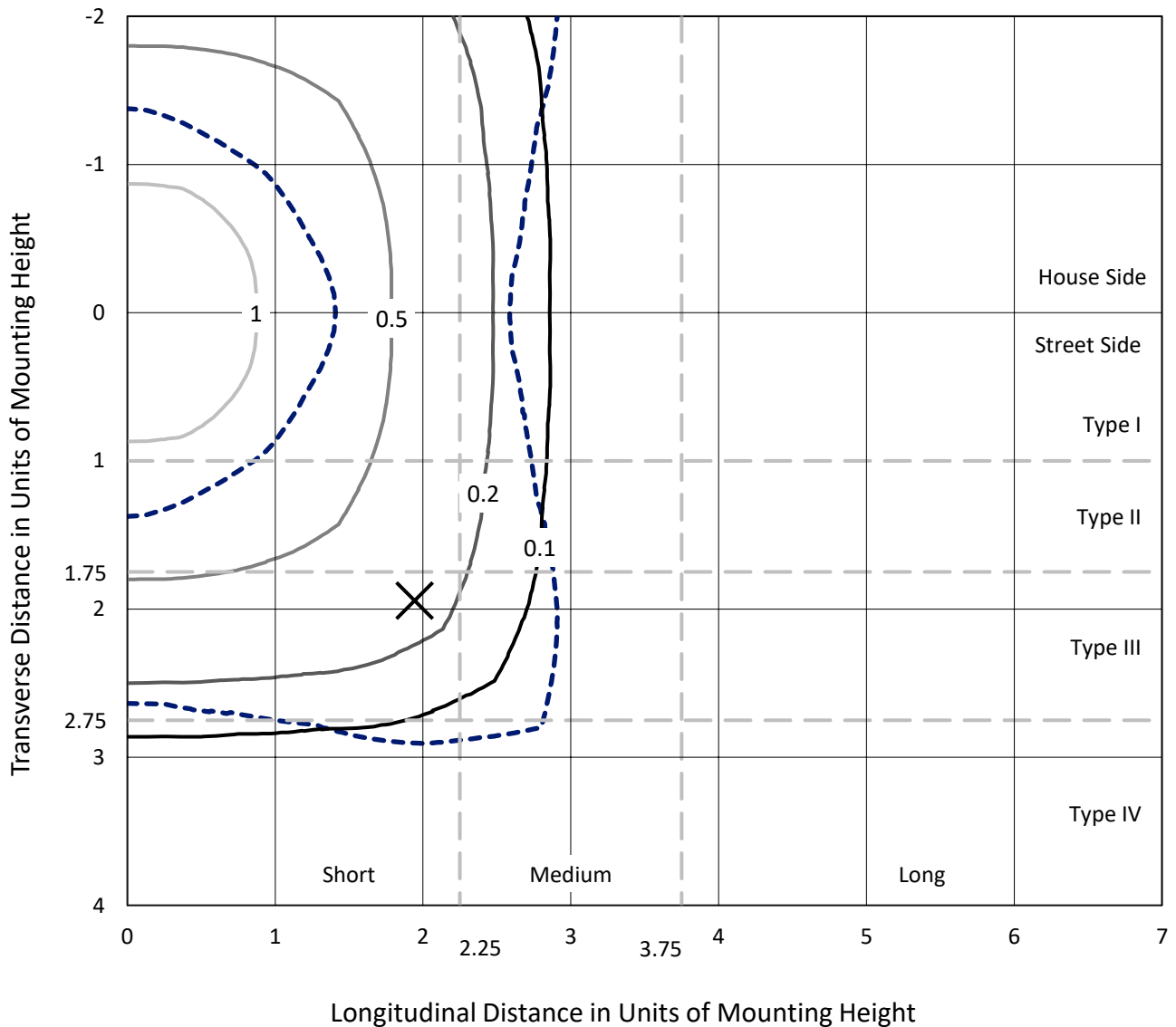
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

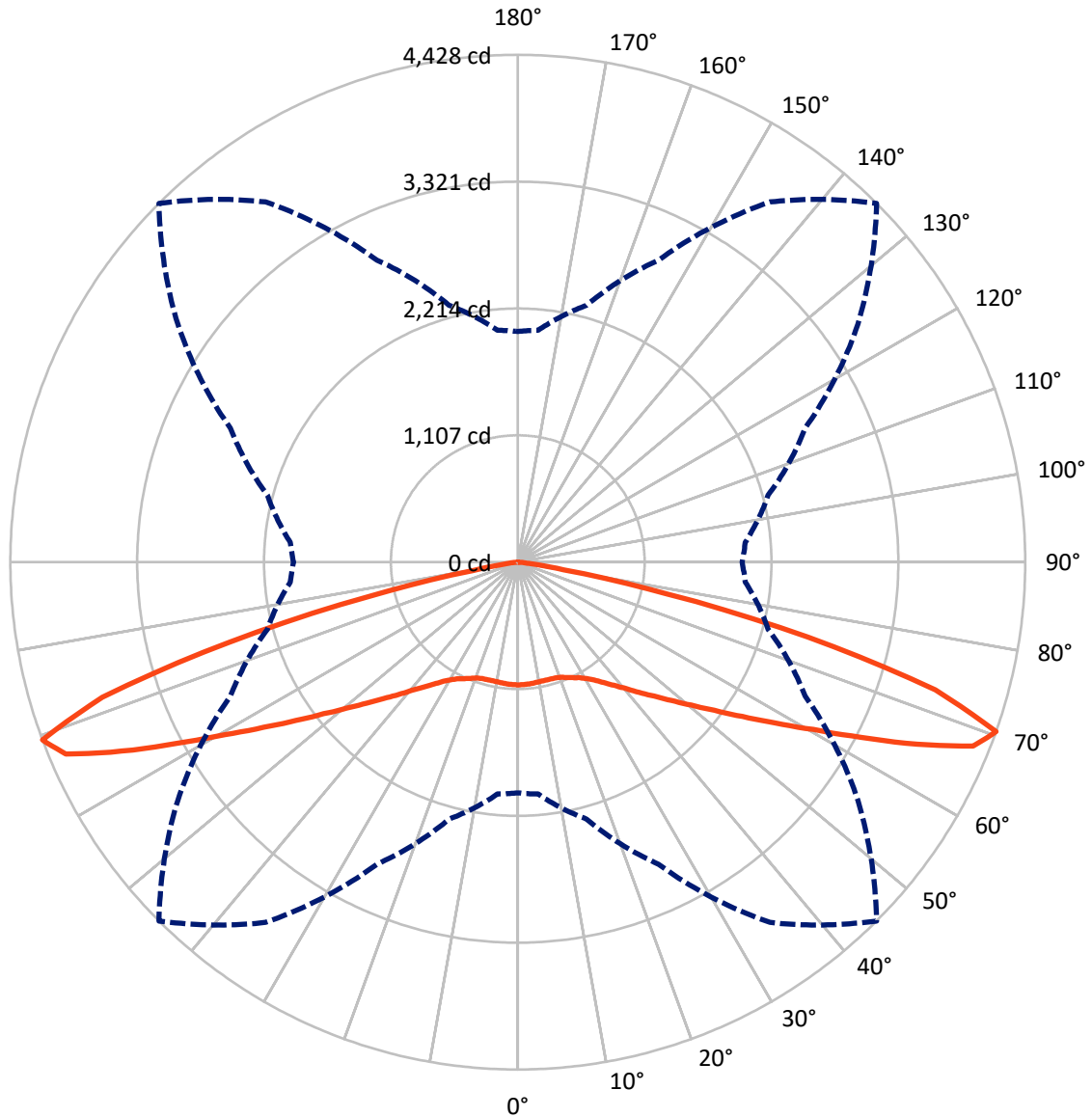
× Max cd
 - - - 1/2 Max cd



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	4822.5	0.0	4822.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4822.5	0.0	4822.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9645.0	0.0	9645.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	1.1
10°-20°	298.0	3.1
20°-30°	509.7	5.3
30°-40°	809.0	8.4
40°-50°	1305.2	13.5
50°-60°	2123.6	22.0
60°-70°	3078.5	31.9
70°-80°	1365.5	14.2
80°-90°	53.9	0.6
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°	9645.0	100.0
0°-180°	9645.0	100.0



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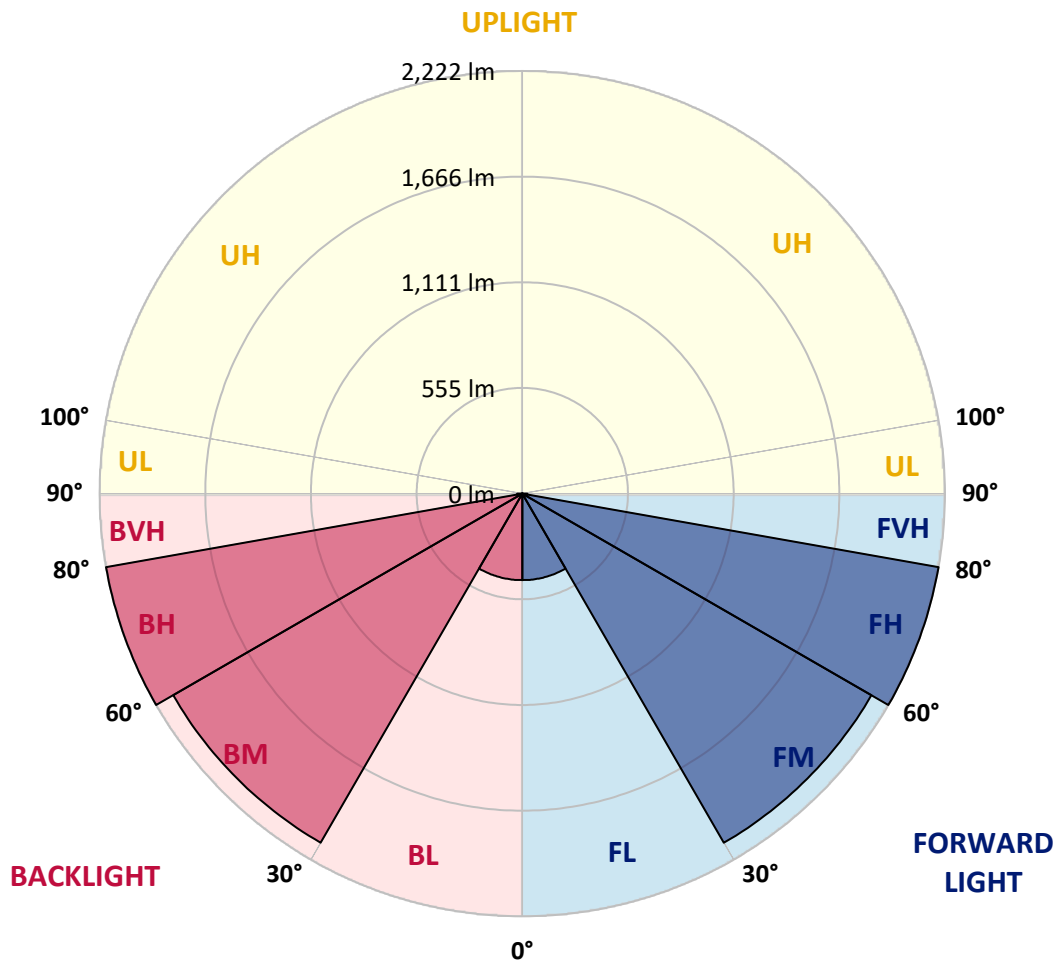
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.7	4.7			
FM (30°-60°)	2118.9	22.0			
FH (60°-80°)	2222.0	23.0			G2/5000
FVH (80°-90°)	26.9	0.3			G1/100
BL (0°-30°)	454.7	4.7	B1/500		
BM (30°-60°)	2118.9	22.0	B2/2500		
BH (60°-80°)	2222.0	23.0	B3/2500		G2/5000
BVH (80°-90°)	26.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0
2.5°	1071.0	1072.0	1070.5	1069.5	1069.0	1069.0	1068.5	1069.0	1072.0	1072.6	1071.0
5°	1068.0	1069.0	1068.5	1067.5	1067.0	1067.0	1066.5	1065.9	1068.5	1069.5	1069.0
7.5°	1063.9	1064.4	1063.9	1063.4	1063.9	1063.4	1061.9	1060.9	1062.9	1062.9	1062.4
10°	1056.8	1057.8	1057.3	1057.8	1058.8	1058.8	1056.8	1054.8	1055.3	1054.3	1054.3
12.5°	1048.2	1049.7	1050.2	1052.2	1054.8	1057.8	1053.2	1048.7	1047.6	1047.1	1046.6
15°	1042.6	1044.1	1046.1	1048.2	1052.7	1059.3	1052.7	1045.6	1043.6	1041.5	1040.5
17.5°	1041.0	1043.1	1046.1	1049.2	1055.3	1061.9	1056.3	1049.2	1044.1	1041.0	1040.0
20°	1045.1	1046.6	1051.2	1056.8	1065.4	1072.0	1066.5	1058.8	1051.2	1046.6	1045.1
22.5°	1053.2	1055.8	1061.4	1071.5	1083.7	1093.4	1085.8	1073.1	1060.9	1054.8	1052.7
25°	1071.0	1073.1	1079.7	1093.4	1107.6	1116.8	1108.6	1093.9	1077.1	1069.0	1066.5
27.5°	1098.0	1101.0	1108.1	1124.4	1136.1	1141.2	1135.6	1125.4	1113.2	1104.6	1102.5
30°	1136.1	1139.7	1150.3	1167.6	1175.2	1178.3	1175.7	1169.1	1160.5	1151.3	1149.3
32.5°	1187.4	1189.5	1201.7	1217.9	1225.1	1226.1	1223.0	1220.0	1205.7	1190.5	1189.5
35°	1244.9	1248.4	1263.2	1282.5	1289.1	1289.6	1283.5	1278.9	1262.2	1250.0	1250.0
37.5°	1321.1	1322.7	1336.9	1358.7	1365.9	1363.8	1360.8	1356.7	1338.9	1323.2	1323.7
40°	1410.6	1413.6	1425.8	1451.3	1451.3	1448.7	1450.7	1447.7	1429.9	1414.7	1415.2
42.5°	1516.8	1518.4	1533.1	1560.0	1558.0	1552.9	1555.0	1550.9	1539.7	1522.4	1516.3
45°	1630.2	1636.3	1661.7	1687.6	1683.6	1667.3	1675.4	1674.4	1664.2	1638.3	1639.8
47.5°	1766.9	1777.1	1801.5	1832.5	1827.9	1802.5	1811.7	1817.8	1803.5	1775.1	1770.0
50°	1920.9	1927.6	1963.6	1992.6	1988.6	1961.6	1982.5	1983.5	1947.9	1907.7	1907.7
52.5°	2085.1	2091.7	2140.5	2185.8	2188.3	2149.2	2166.0	2164.9	2107.0	2054.1	2044.0
55°	2269.1	2272.2	2335.2	2401.8	2416.0	2377.9	2380.0	2359.6	2284.4	2222.9	2217.3
57.5°	2459.3	2470.4	2540.1	2626.5	2668.7	2645.3	2634.6	2580.2	2507.5	2436.9	2433.3
60°	2669.7	2670.2	2760.7	2862.9	2948.3	2964.0	2920.3	2847.6	2753.6	2660.0	2656.0
62.5°	2815.6	2837.4	2951.8	3124.6	3277.7	3366.1	3250.7	3098.2	2913.2	2762.2	2747.0
65°	2845.6	2860.3	3034.7	3327.5	3640.1	3830.7	3563.8	3239.5	2923.9	2722.6	2712.4
67.5°	2603.1	2618.9	2853.7	3303.1	3894.2	4285.1	3767.2	3171.4	2742.9	2493.8	2474.0
70°	2013.5	2031.2	2321.5	2907.6	3837.8	4428.0	3622.3	2766.3	2262.0	1993.1	1957.0
72.5°	1070.5	1136.1	1384.2	1995.7	3115.0	3812.4	2970.1	2018.5	1458.9	1192.5	1144.7
75°	390.9	399.0	537.3	885.0	1812.2	2614.3	1881.8	962.8	553.6	427.5	405.6
77.5°	161.6	161.1	176.9	267.4	658.3	1338.9	734.5	282.6	176.4	163.2	161.1
80°	95.6	95.6	105.2	111.3	173.3	404.1	193.7	126.1	105.7	96.6	98.1
82.5°	42.7	45.2	66.6	70.1	83.9	110.8	93.5	80.3	69.1	47.8	43.2
85°	23.4	20.3	35.1	36.6	40.2	41.2	44.2	43.7	40.2	23.4	23.9
87.5°	4.6	5.6	10.2	7.6	8.6	7.6	10.2	14.2	14.7	8.1	6.6
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)