

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: P451408

Luminaire Tested: **GALN-SA2B-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451408
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-SA2B-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12001 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

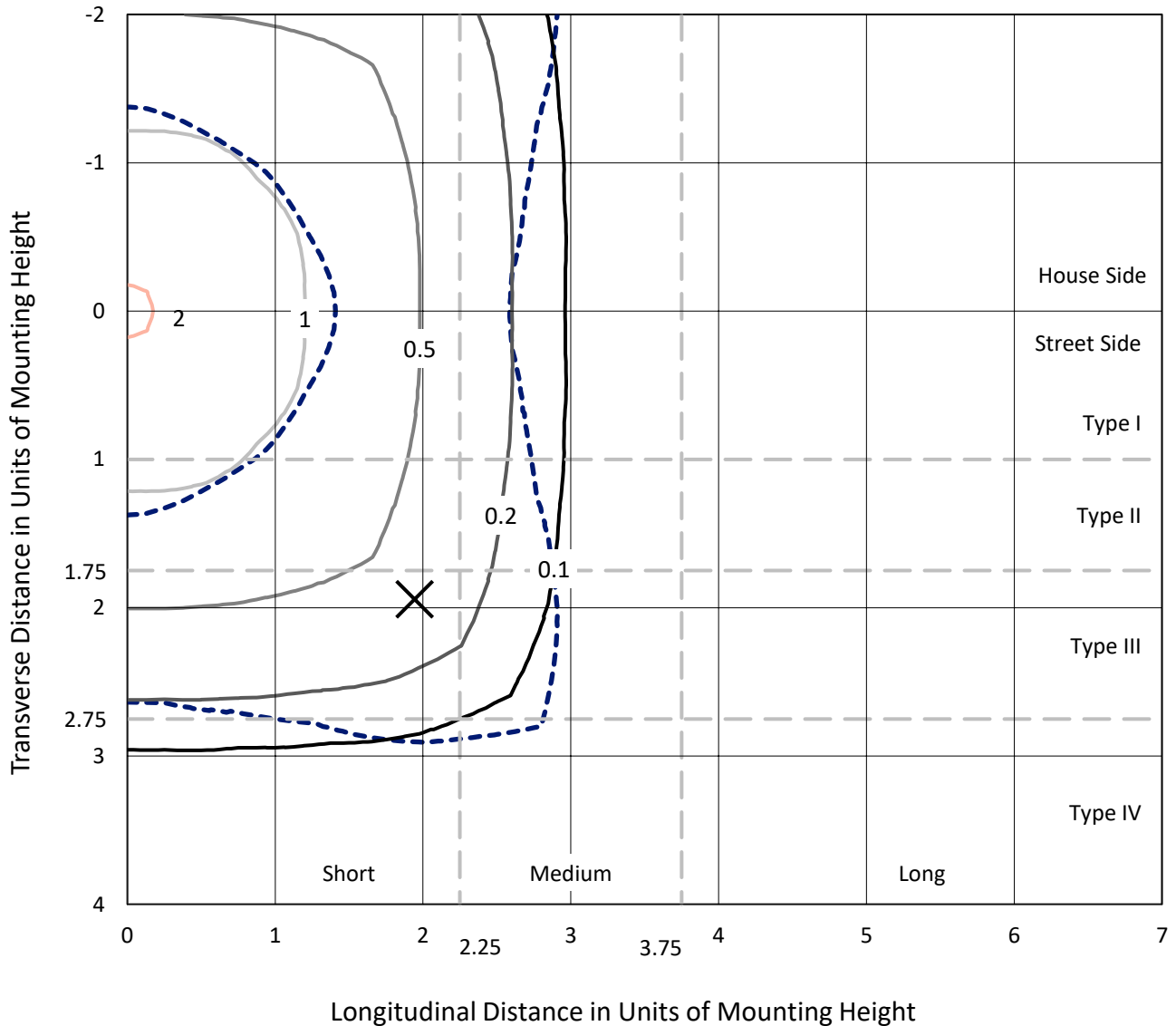
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

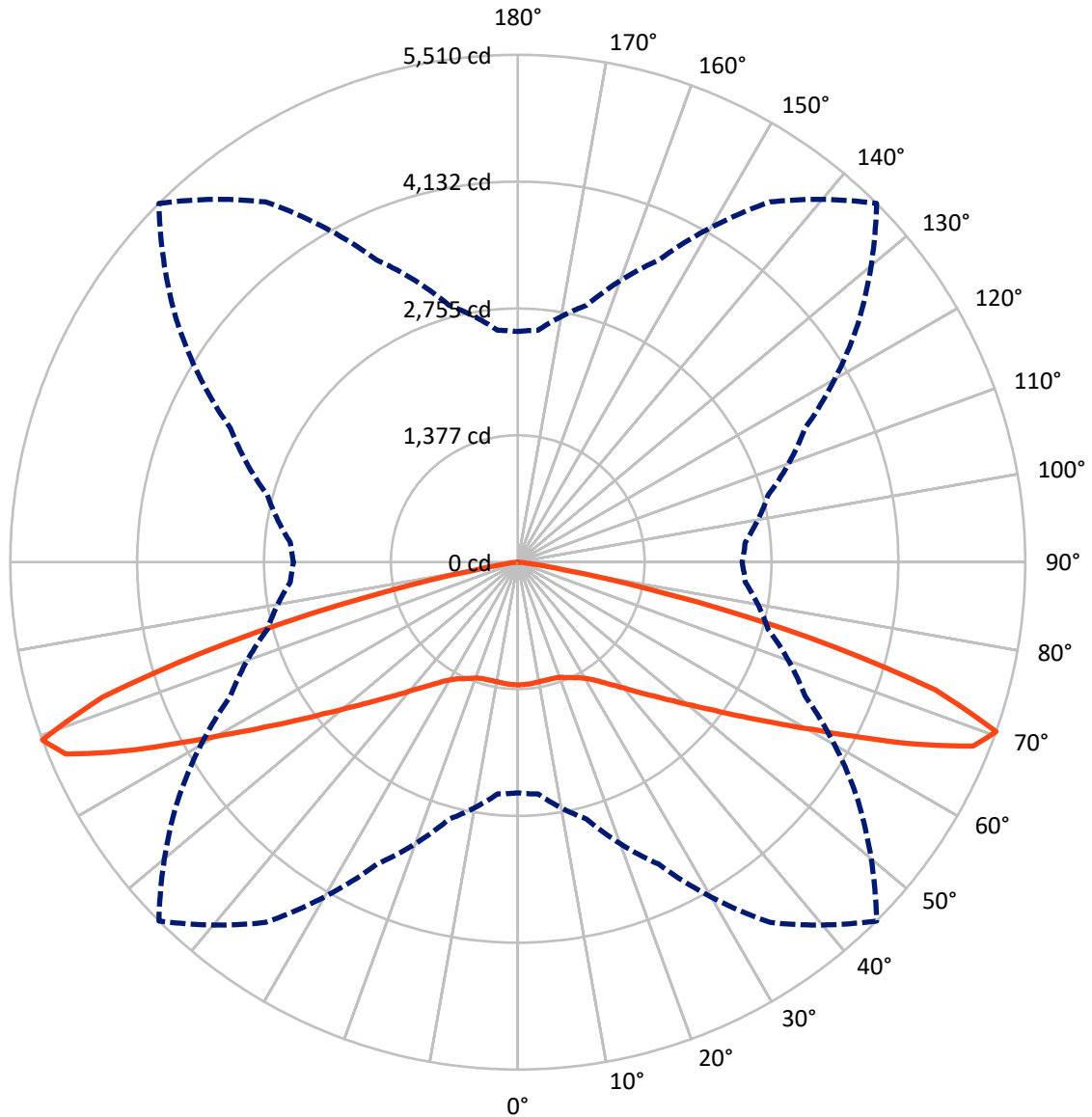
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	6000.5	0.0	6000.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6000.5	0.0	6000.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12001.0	0.0	12001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	1.1
10°-20°	370.8	3.1
20°-30°	634.2	5.3
30°-40°	1006.7	8.4
40°-50°	1624.0	13.5
50°-60°	2642.3	22.0
60°-70°	3830.4	31.9
70°-80°	1699.0	14.2
80°-90°	67.0	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°	12001.0	100.0
0°-180°	12001.0	100.0

Coefficient of Utilization



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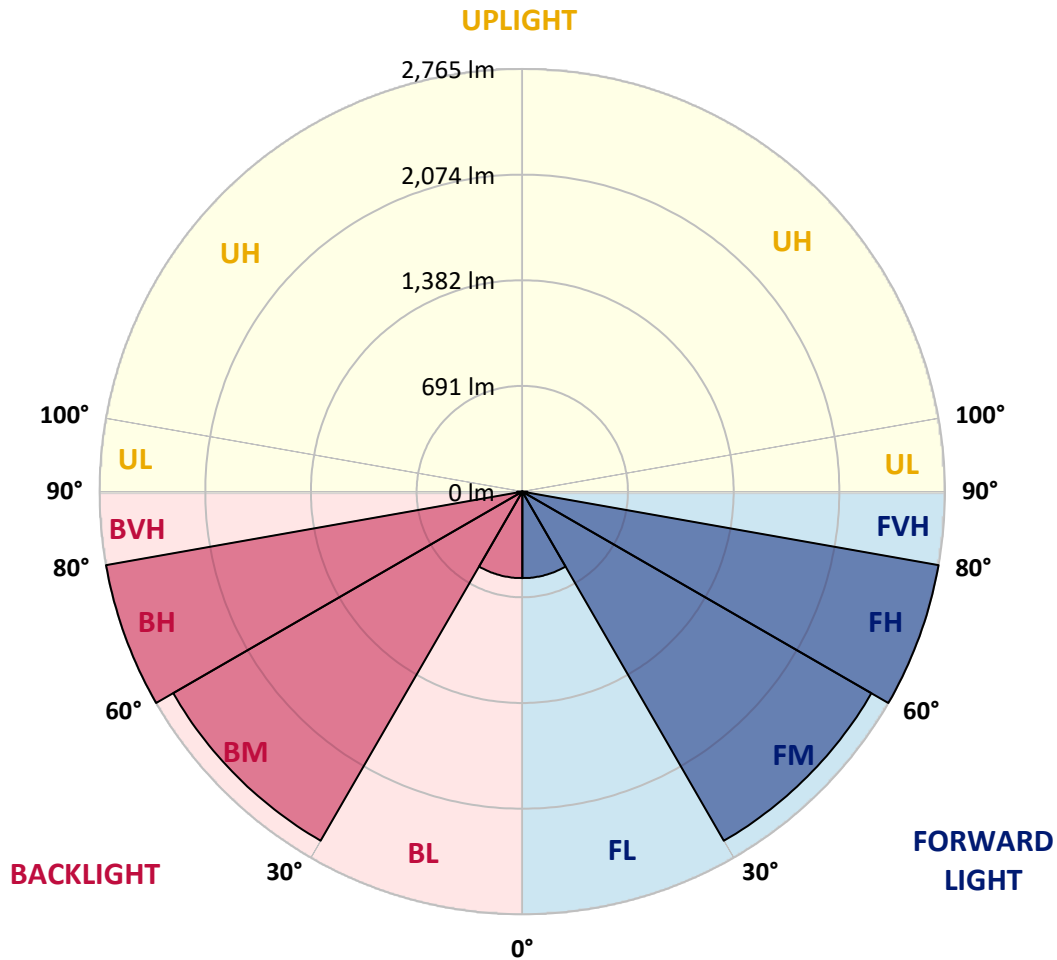
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.7	4.7			
FM (30°-60°)	2636.5	22.0			
FH (60°-80°)	2764.7	23.0			G2/5000
FVH (80°-90°)	33.5	0.3			G1/100
BL (0°-30°)	565.7	4.7	B2/1000		
BM (30°-60°)	2636.5	22.0	B3/5000		
BH (60°-80°)	2764.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	33.5	0.3			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°	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7
2.5°	1332.7	1333.9	1332.0	1330.8	1330.1	1330.1	1329.5	1330.1	1333.9	1334.6	1332.7
5°	1328.9	1330.1	1329.5	1328.2	1327.6	1327.6	1327.0	1326.3	1329.5	1330.8	1330.1
7.5°	1323.8	1324.4	1323.8	1323.2	1323.8	1323.2	1321.3	1320.0	1322.5	1322.5	1321.9
10°	1314.9	1316.2	1315.6	1316.2	1317.5	1317.5	1314.9	1312.4	1313.0	1311.8	1311.8
12.5°	1304.2	1306.1	1306.7	1309.3	1312.4	1316.2	1310.5	1304.8	1303.6	1302.9	1302.3
15°	1297.2	1299.1	1301.7	1304.2	1309.9	1318.1	1309.9	1301.0	1298.5	1296.0	1294.7
17.5°	1295.3	1297.9	1301.7	1305.5	1313.0	1321.3	1314.3	1305.5	1299.1	1295.3	1294.1
20°	1300.4	1302.3	1308.0	1314.9	1325.7	1333.9	1327.0	1317.5	1308.0	1302.3	1300.4
22.5°	1310.5	1313.7	1320.6	1333.3	1348.5	1360.5	1351.0	1335.2	1320.0	1312.4	1309.9
25°	1332.7	1335.2	1343.4	1360.5	1378.2	1389.6	1379.5	1361.1	1340.2	1330.1	1327.0
27.5°	1366.2	1370.0	1378.8	1399.1	1413.6	1419.9	1413.0	1400.3	1385.2	1374.4	1371.9
30°	1413.6	1418.0	1431.3	1452.8	1462.3	1466.1	1462.9	1454.7	1444.0	1432.6	1430.1
32.5°	1477.5	1480.0	1495.2	1515.4	1524.3	1525.6	1521.8	1518.0	1500.3	1481.3	1480.0
35°	1549.0	1553.4	1571.7	1595.8	1604.0	1604.6	1597.0	1591.3	1570.5	1555.3	1555.3
37.5°	1643.8	1645.7	1663.4	1690.6	1699.5	1697.0	1693.2	1688.1	1666.0	1646.4	1647.0
40°	1755.2	1759.0	1774.1	1805.8	1805.8	1802.6	1805.1	1801.3	1779.2	1760.2	1760.8
42.5°	1887.3	1889.2	1907.6	1941.1	1938.6	1932.3	1934.8	1929.7	1915.8	1894.3	1886.7
45°	2028.4	2036.0	2067.6	2099.9	2094.8	2074.6	2084.7	2083.4	2070.8	2038.5	2040.4
47.5°	2198.5	2211.2	2241.5	2280.1	2274.4	2242.8	2254.2	2261.8	2244.1	2208.7	2202.3
50°	2390.2	2398.4	2443.3	2479.4	2474.3	2440.8	2466.7	2468.0	2423.7	2373.7	2373.7
52.5°	2594.5	2602.7	2663.4	2719.7	2722.9	2674.2	2695.0	2693.8	2621.7	2555.9	2543.2
55°	2823.4	2827.2	2905.7	2988.5	3006.2	2958.8	2961.3	2936.0	2842.4	2765.9	2758.9
57.5°	3060.0	3073.9	3160.5	3268.1	3320.6	3291.5	3278.2	3210.5	3120.1	3032.2	3027.7
60°	3321.8	3322.5	3435.0	3562.2	3668.4	3688.0	3633.6	3543.2	3426.2	3309.8	3304.8
62.5°	3503.4	3530.6	3672.9	3887.9	4078.3	4188.3	4044.8	3855.0	3624.8	3436.9	3418.0
65°	3540.7	3559.0	3776.0	4140.3	4529.3	4766.4	4434.4	4030.9	3638.1	3387.6	3375.0
67.5°	3239.0	3258.6	3550.8	4109.9	4845.5	5331.9	4687.4	3946.1	3412.9	3103.0	3078.3
70°	2505.3	2527.4	2888.6	3617.8	4775.3	5509.6	4507.1	3442.0	2814.6	2480.0	2435.1
72.5°	1332.0	1413.6	1722.3	2483.2	3875.9	4743.7	3695.6	2511.6	1815.2	1483.8	1424.4
75°	486.4	496.5	668.5	1101.2	2254.8	3252.9	2341.5	1197.9	688.8	531.9	504.7
77.5°	201.1	200.5	220.1	332.7	819.1	1666.0	913.9	351.7	219.5	203.0	200.5
80°	118.9	118.9	130.9	138.5	215.7	502.8	241.0	156.9	131.6	120.2	122.1
82.5°	53.1	56.3	82.9	87.3	104.4	137.9	116.4	99.9	86.0	59.5	53.8
85°	29.1	25.3	43.6	45.5	50.0	51.2	55.0	54.4	50.0	29.1	29.7
87.5°	5.7	7.0	12.6	9.5	10.8	9.5	12.6	17.7	18.3	10.1	8.2
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)