

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: P650721

Luminaire Tested: **GALN-SA2C-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8168.6 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

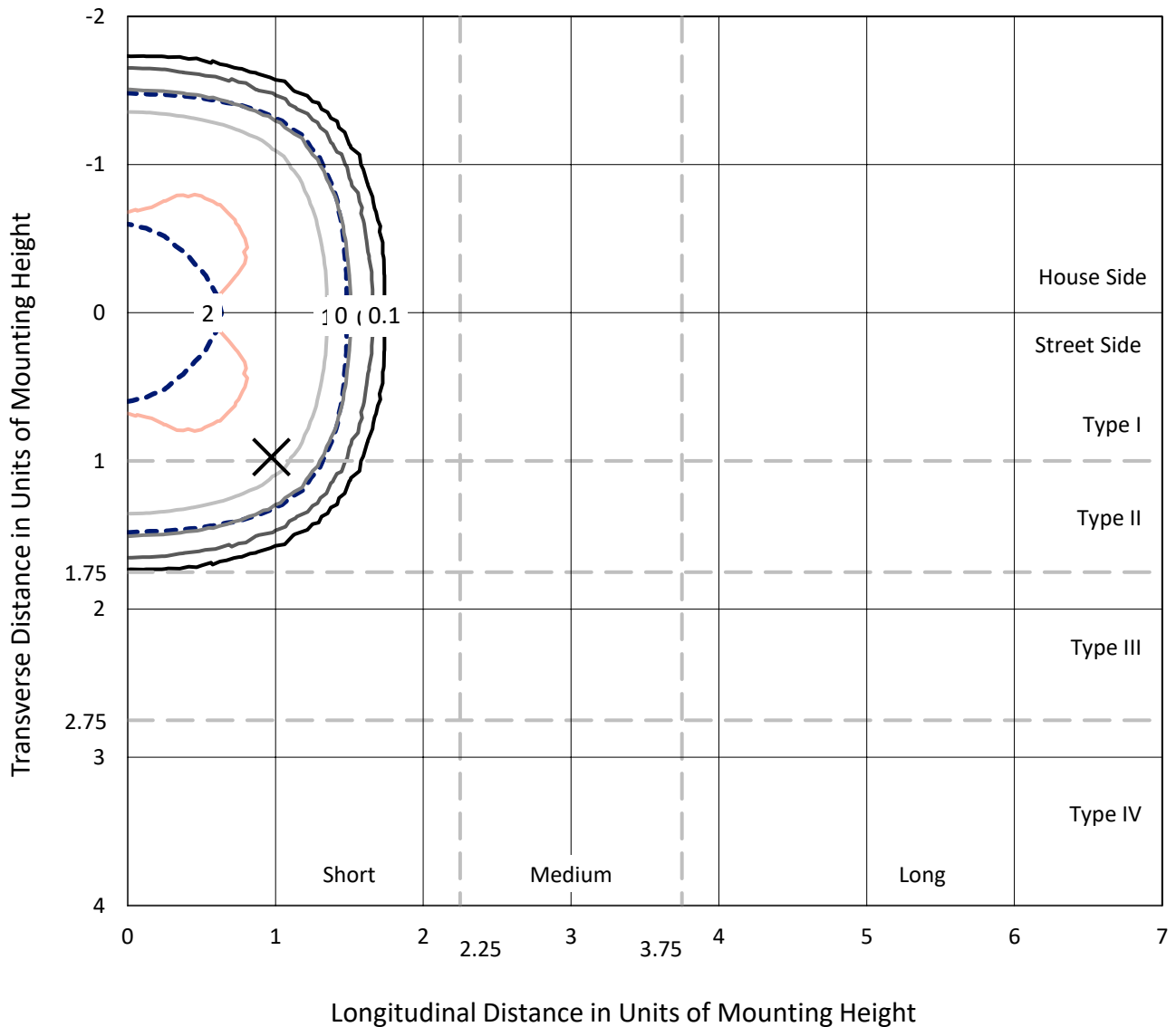
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

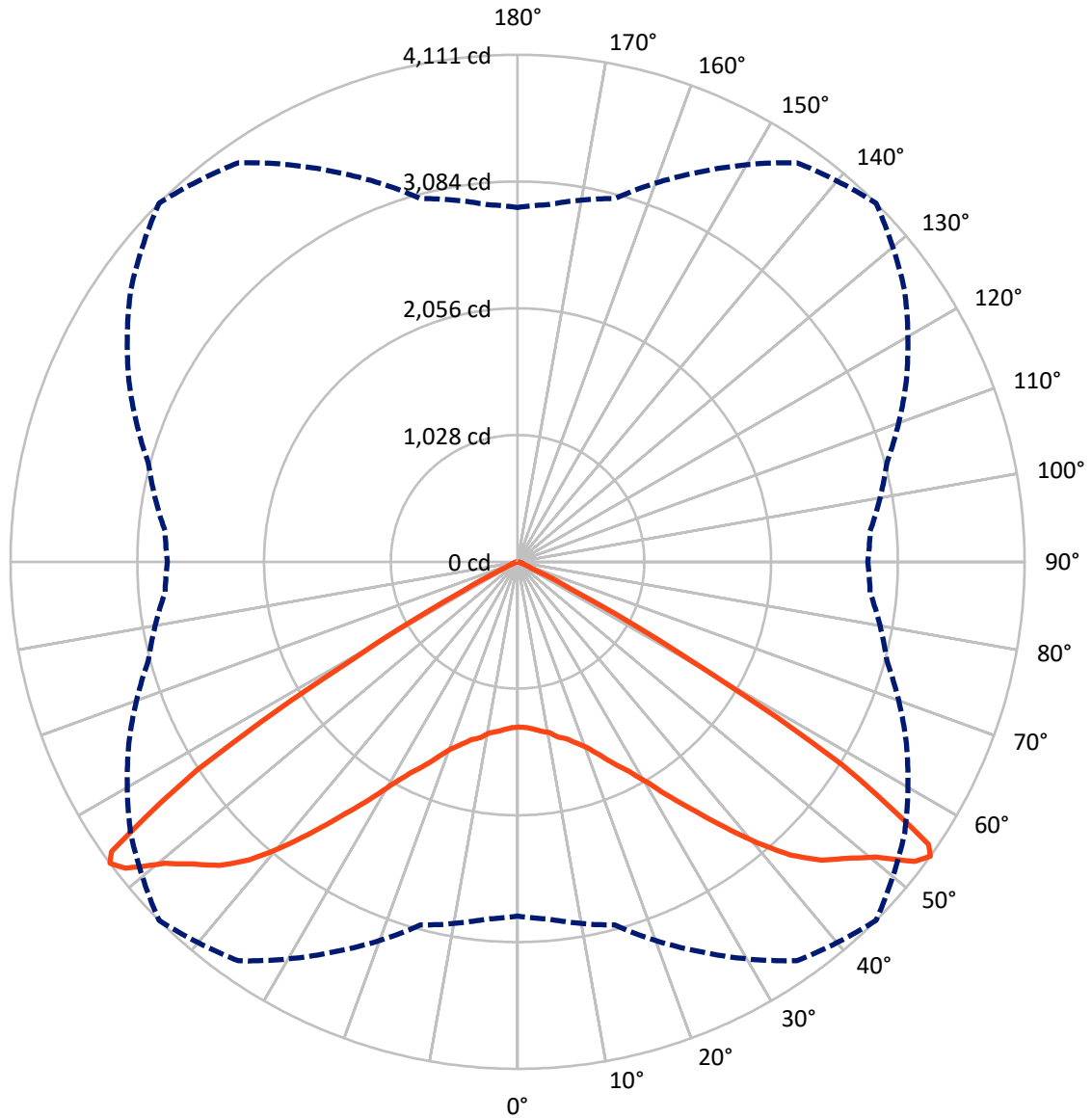
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4084.3	0.0	4084.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4084.3	0.0	4084.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8168.6	0.0	8168.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	1.6
10°-20°	424.5	5.2
20°-30°	832.1	10.2
30°-40°	1496.2	18.3
40°-50°	2561.3	31.4
50°-60°	2478.3	30.3
60°-70°	212.1	2.6
70°-80°	25.2	0.3
80°-90°	7.9	0.1
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°	8168.6	100.0
0°-180°	8168.6	100.0

Coefficient of Utilization

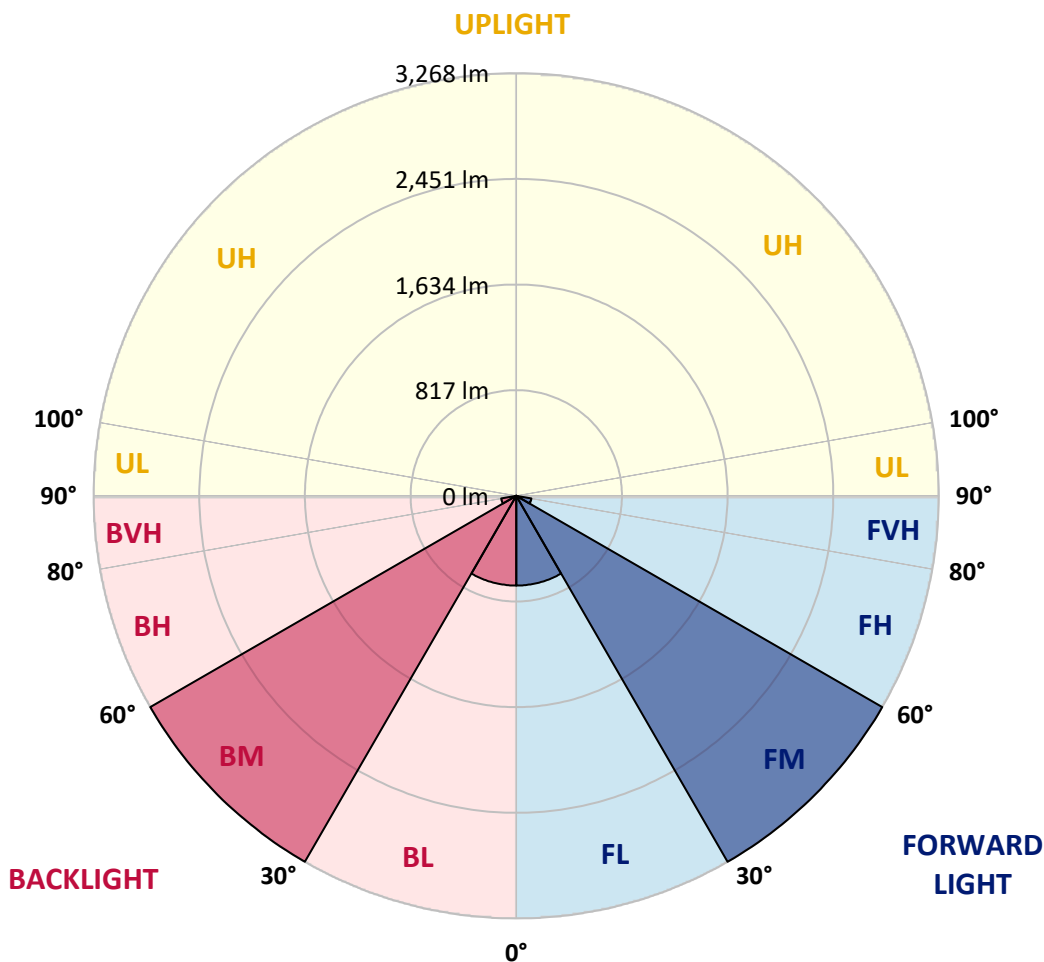


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	693.8	8.5			
FM (30°-60°)	3267.9	40.0			
FH (60°-80°)	118.6	1.5			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	693.8	8.5	B2/1000		
BM (30°-60°)	3267.9	40.0	B3/5000		
BH (60°-80°)	118.6	1.5	B1/500		G0/660
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4
2.5°	1345.9	1353.7	1348.5	1352.3	1352.3	1345.9	1349.7	1334.2	1344.6	1336.9	1338.1
5°	1366.5	1365.3	1365.3	1366.5	1361.4	1364.0	1358.8	1353.7	1349.7	1344.6	1360.1
7.5°	1392.4	1392.4	1383.4	1386.0	1383.4	1387.3	1377.0	1366.5	1362.7	1358.8	1356.2
10°	1417.1	1414.5	1410.6	1422.2	1413.1	1408.0	1402.8	1396.3	1382.1	1377.0	1371.8
12.5°	1453.2	1452.0	1446.8	1458.5	1453.2	1458.5	1439.0	1422.2	1419.6	1402.8	1411.9
15°	1496.0	1507.7	1498.6	1498.6	1496.0	1489.5	1481.8	1474.0	1450.7	1444.2	1445.5
17.5°	1551.6	1547.8	1549.0	1549.0	1562.0	1545.2	1529.6	1510.2	1498.6	1494.7	1481.8
20°	1604.7	1609.8	1608.6	1617.7	1625.4	1607.3	1590.5	1587.9	1555.5	1560.7	1542.6
22.5°	1697.9	1694.0	1700.4	1706.9	1701.8	1699.2	1683.6	1664.3	1635.7	1622.8	1620.2
25°	1796.2	1789.7	1778.1	1793.6	1801.4	1813.0	1783.3	1772.9	1728.9	1709.5	1710.8
27.5°	1880.3	1889.4	1902.3	1908.8	1928.2	1924.4	1903.6	1870.0	1836.3	1814.4	1800.1
30°	1995.5	2000.7	2022.7	2031.8	2065.4	2074.5	2042.1	2003.3	1943.7	1915.3	1898.5
32.5°	2101.7	2137.9	2136.6	2181.9	2236.2	2273.7	2215.5	2156.0	2096.4	2062.8	2033.0
35°	2273.7	2267.3	2304.8	2352.7	2440.7	2483.4	2420.0	2351.4	2260.8	2206.4	2183.2
37.5°	2434.2	2436.8	2487.3	2563.6	2664.5	2730.6	2674.9	2562.4	2469.2	2399.3	2366.9
40°	2667.1	2672.4	2724.1	2810.8	2924.7	2995.9	2931.1	2817.3	2693.1	2638.7	2638.7
42.5°	2940.2	2962.2	2995.9	3070.9	3173.2	3252.1	3193.9	3104.6	2979.1	2909.2	2919.5
45°	3221.0	3231.4	3253.4	3364.7	3412.5	3451.4	3397.1	3355.6	3271.5	3186.1	3171.8
47.5°	3483.8	3487.6	3552.3	3587.3	3624.8	3592.4	3627.4	3573.1	3478.5	3395.7	3378.9
50°	3600.2	3593.8	3685.6	3791.7	3820.2	3763.3	3733.5	3697.3	3553.6	3454.0	3410.0
52.5°	3261.1	3298.7	3469.5	3764.6	3987.2	4035.0	3861.6	3694.7	3426.8	3232.7	3202.9
54°	2872.9	2907.8	3048.9	3486.4	3949.6	4111.4	3831.8	3477.3	3099.4	2869.1	2839.3
55°	2488.6	2449.7	2706.0	3152.4	3773.7	4044.1	3714.1	3196.5	2764.2	2553.3	2511.9
57.5°	1347.2	1353.7	1569.7	1991.7	2651.6	3100.7	2738.3	2162.5	1633.1	1396.3	1375.6
60°	427.1	437.4	531.8	804.9	1267.0	1512.8	1296.7	868.3	600.5	481.4	462.0
62.5°	133.3	138.4	151.4	225.1	346.8	495.6	388.2	233.0	173.4	159.2	161.7
65°	81.5	81.5	82.8	88.0	103.5	120.3	116.5	102.3	98.3	95.8	94.4
67.5°	53.1	51.8	54.3	58.2	60.8	62.1	66.0	69.9	68.6	66.0	66.0
70°	32.4	31.0	33.6	38.9	40.1	42.7	46.6	51.8	50.5	47.9	49.2
72.5°	18.1	18.1	19.4	23.3	27.2	29.8	33.6	37.5	38.9	37.5	37.5
75°	6.5	7.7	10.3	14.2	16.8	20.7	24.6	28.5	32.4	29.8	28.5
77.5°	2.6	2.6	5.2	9.1	13.0	16.8	23.3	27.2	29.8	27.2	24.6
80°	1.3	1.3	3.9	7.7	11.6	15.6	19.4	23.3	24.6	22.0	19.4
82.5°	1.3	1.3	3.9	7.7	11.6	14.2	20.7	23.3	25.9	23.3	19.4
85°	0.0	1.3	3.9	7.7	10.3	11.6	11.6	7.7	6.5	3.9	3.9
87.5°	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)