

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: P527443

Luminaire Tested: **GALN-SA2C-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527443
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-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 8122 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

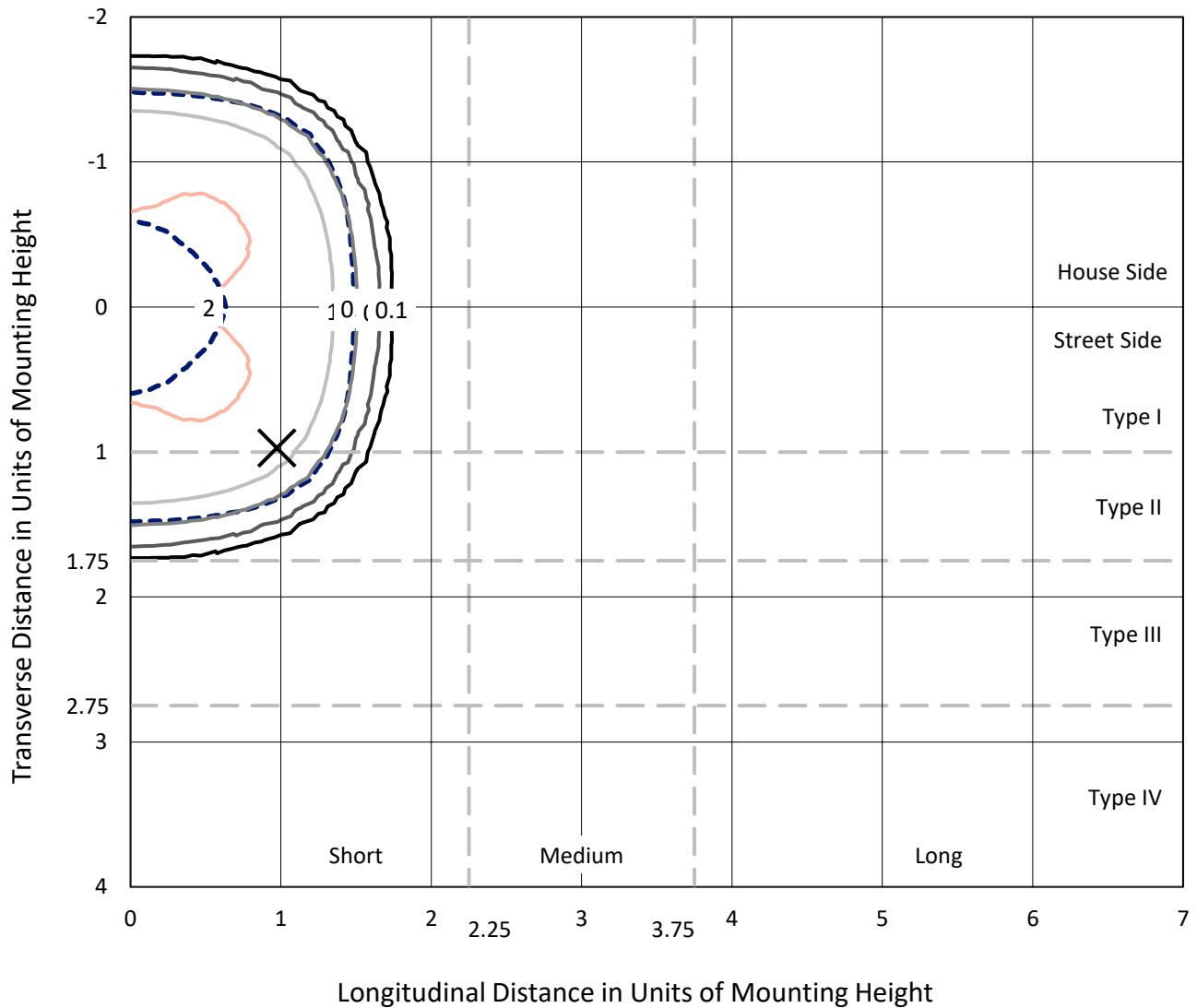
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

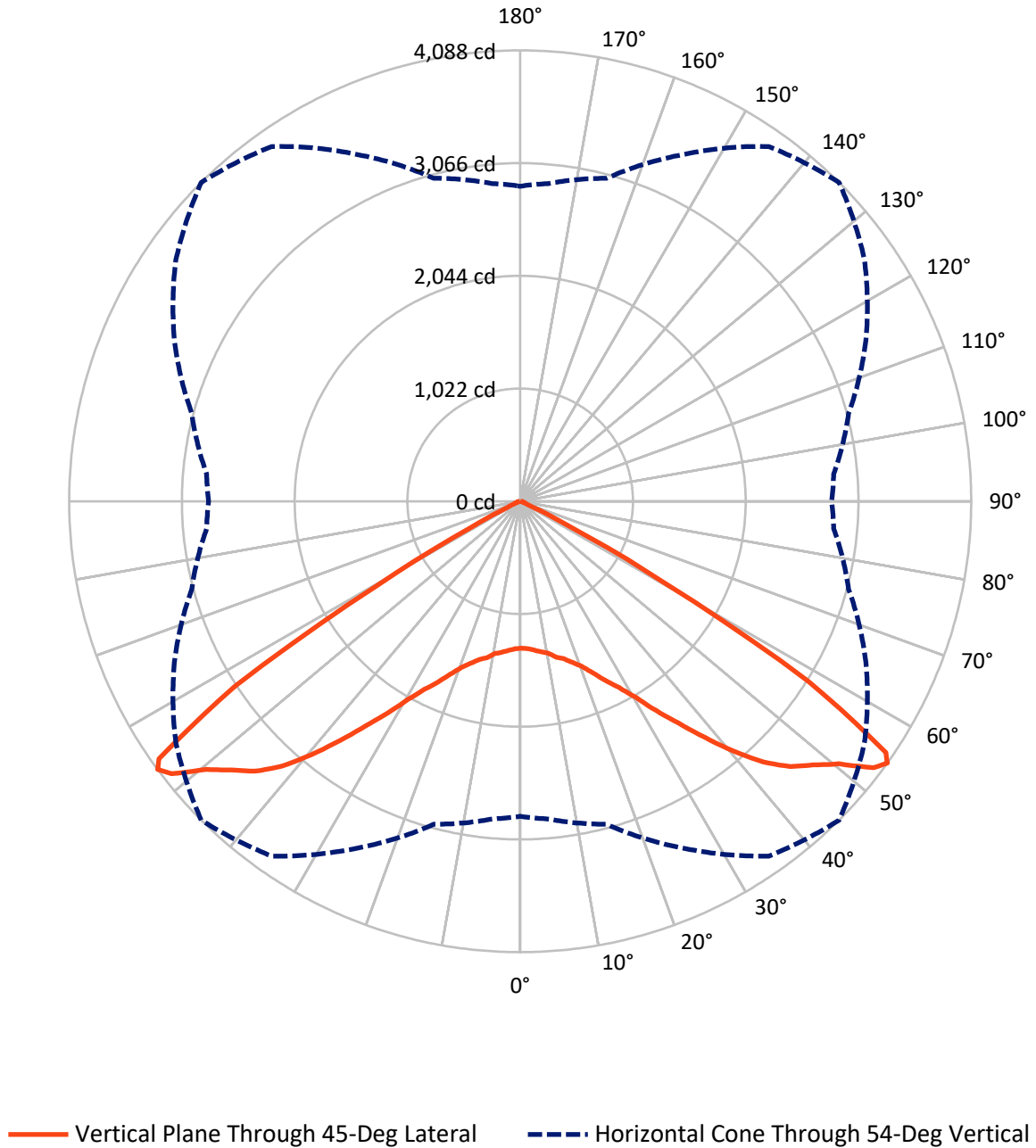
✕ Max cd
 - - - 1/2 Max cd



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



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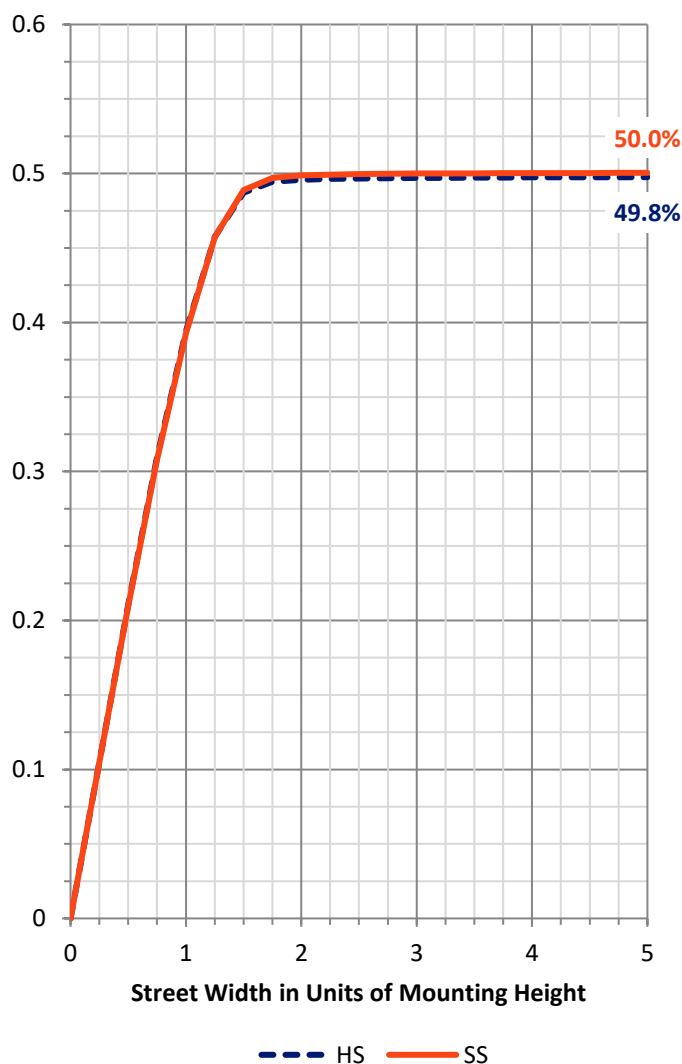
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4061.0	0.0	4061.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4061.0	0.0	4061.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8122.0	0.0	8122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	1.6
10°-20°	422.1	5.2
20°-30°	827.3	10.2
30°-40°	1487.7	18.3
40°-50°	2546.6	31.4
50°-60°	2464.1	30.3
60°-70°	210.9	2.6
70°-80°	25.0	0.3
80°-90°	7.8	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°	8122.0	100.0
0°-180°	8122.0	100.0

Coefficient of Utilization



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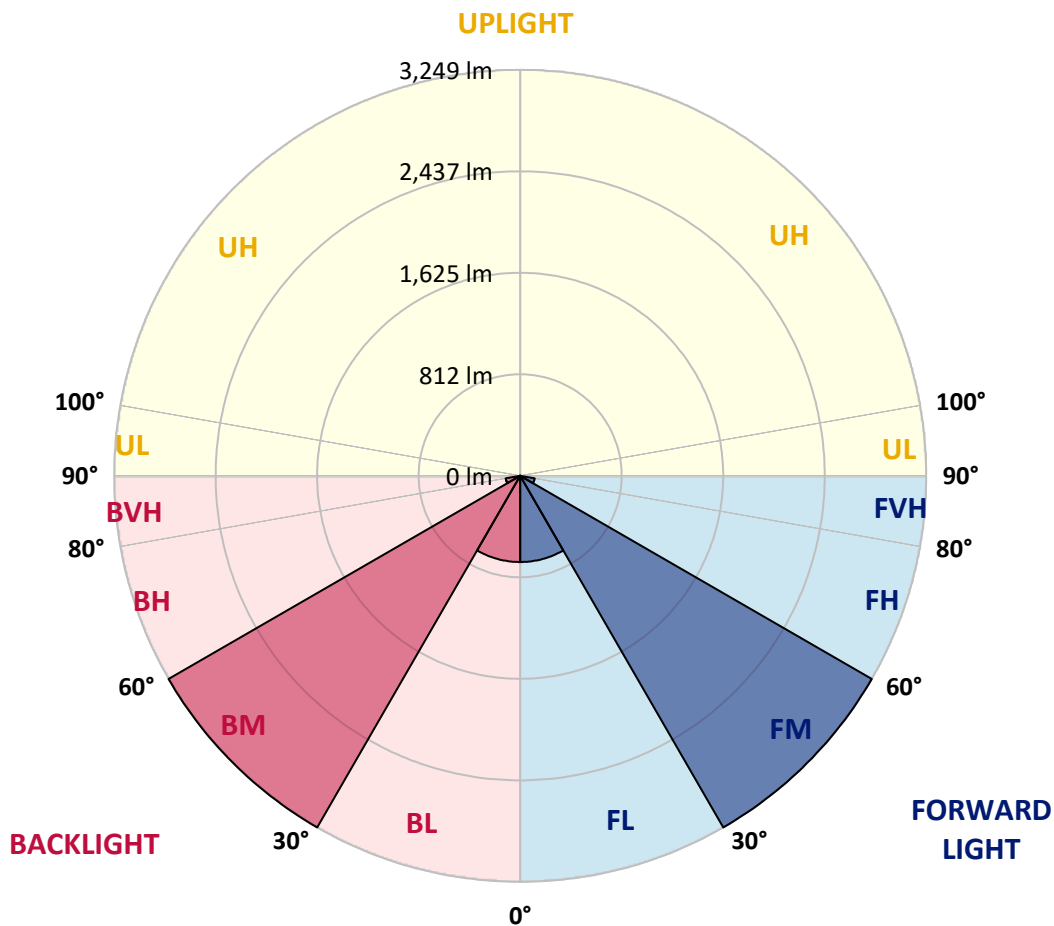
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.9	8.5			
FM (30°-60°)	3249.2	40.0			
FH (60°-80°)	118.0	1.5			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	689.9	8.5	B2/1000		
BM (30°-60°)	3249.2	40.0	B3/5000		
BH (60°-80°)	118.0	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°	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8
2.5°	1338.2	1345.9	1340.8	1344.6	1344.6	1338.2	1342.0	1326.6	1336.9	1329.2	1330.5
5°	1358.8	1357.5	1357.5	1358.8	1353.6	1356.2	1351.1	1345.9	1342.0	1336.9	1352.3
7.5°	1384.5	1384.5	1375.5	1378.1	1375.5	1379.4	1369.1	1358.8	1354.9	1351.1	1348.5
10°	1409.0	1406.4	1402.5	1414.1	1405.1	1400.0	1394.8	1388.4	1374.2	1369.1	1363.9
12.5°	1445.0	1443.7	1438.6	1450.1	1445.0	1450.1	1430.8	1414.1	1411.5	1394.8	1403.8
15°	1487.4	1499.0	1490.0	1490.0	1487.4	1481.0	1473.3	1465.6	1442.4	1436.0	1437.3
17.5°	1542.8	1538.9	1540.2	1540.2	1553.1	1536.3	1520.9	1501.6	1490.0	1486.2	1473.3
20°	1595.5	1600.7	1599.4	1608.4	1616.1	1598.1	1581.4	1578.8	1546.6	1551.8	1533.8
22.5°	1688.2	1684.3	1690.7	1697.2	1692.0	1689.5	1674.0	1654.7	1626.4	1613.5	1611.0
25°	1786.0	1779.5	1768.0	1783.4	1791.1	1802.7	1773.1	1762.8	1719.1	1699.8	1701.0
27.5°	1869.6	1878.6	1891.5	1897.9	1917.2	1913.4	1892.8	1859.3	1825.9	1804.0	1789.8
30°	1984.1	1989.3	2011.1	2020.2	2053.6	2062.6	2030.4	1991.8	1932.7	1904.3	1887.6
32.5°	2089.6	2125.7	2124.4	2169.4	2223.5	2260.8	2202.9	2143.7	2084.5	2051.0	2021.4
35°	2260.8	2254.3	2291.6	2339.3	2426.8	2469.2	2406.2	2338.0	2247.9	2193.9	2170.7
37.5°	2420.3	2422.9	2473.1	2549.0	2649.4	2715.0	2659.6	2547.7	2455.1	2385.6	2353.4
40°	2651.9	2657.1	2708.5	2794.8	2908.0	2978.8	2914.4	2801.2	2677.7	2623.6	2623.6
42.5°	2923.4	2945.3	2978.8	3053.4	3155.0	3233.5	3175.6	3086.8	2962.0	2892.5	2902.8
45°	3202.6	3212.9	3234.8	3345.5	3393.1	3431.7	3377.6	3336.5	3252.8	3167.9	3153.8
47.5°	3463.8	3467.7	3532.0	3566.8	3604.1	3571.9	3606.7	3552.6	3458.7	3376.4	3359.6
50°	3579.7	3573.2	3664.6	3770.1	3798.4	3741.8	3712.2	3676.2	3533.3	3434.3	3390.5
52.5°	3242.5	3279.8	3449.7	3743.1	3964.4	4012.0	3839.6	3673.6	3407.2	3214.2	3184.6
54°	2856.5	2891.3	3031.5	3466.4	3927.1	4087.9	3810.0	3457.4	3081.7	2852.7	2823.1
55°	2474.4	2435.8	2690.5	3134.4	3752.1	4021.0	3692.9	3178.2	2748.4	2538.7	2497.5
57.5°	1339.5	1345.9	1560.8	1980.3	2636.5	3083.0	2722.7	2150.1	1623.8	1388.4	1367.8
60°	424.6	434.9	528.8	800.3	1259.7	1504.2	1289.3	863.4	597.0	478.7	459.4
62.5°	132.5	137.7	150.5	223.9	344.8	492.8	386.0	231.6	172.4	158.3	160.8
65°	81.1	81.1	82.4	87.5	102.9	119.7	115.8	101.7	97.8	95.2	93.9
67.5°	52.8	51.5	54.0	57.9	60.5	61.8	65.6	69.5	68.2	65.6	65.6
70°	32.2	30.9	33.5	38.6	39.9	42.5	46.3	51.5	50.2	47.6	48.9
72.5°	18.0	18.0	19.3	23.2	27.0	29.6	33.5	37.3	38.6	37.3	37.3
75°	6.4	7.7	10.3	14.2	16.7	20.6	24.4	28.3	32.2	29.6	28.3
77.5°	2.6	2.6	5.1	9.0	12.9	16.7	23.2	27.0	29.6	27.0	24.4
80°	1.3	1.3	3.9	7.7	11.6	15.4	19.3	23.2	24.4	21.9	19.3
82.5°	1.3	1.3	3.9	7.7	11.6	14.2	20.6	23.2	25.7	23.2	19.3
85°	0.0	1.3	3.9	7.7	10.3	11.6	11.6	7.7	6.4	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)