

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: P529009

Luminaire Tested: **GALN-SA4A-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8594 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

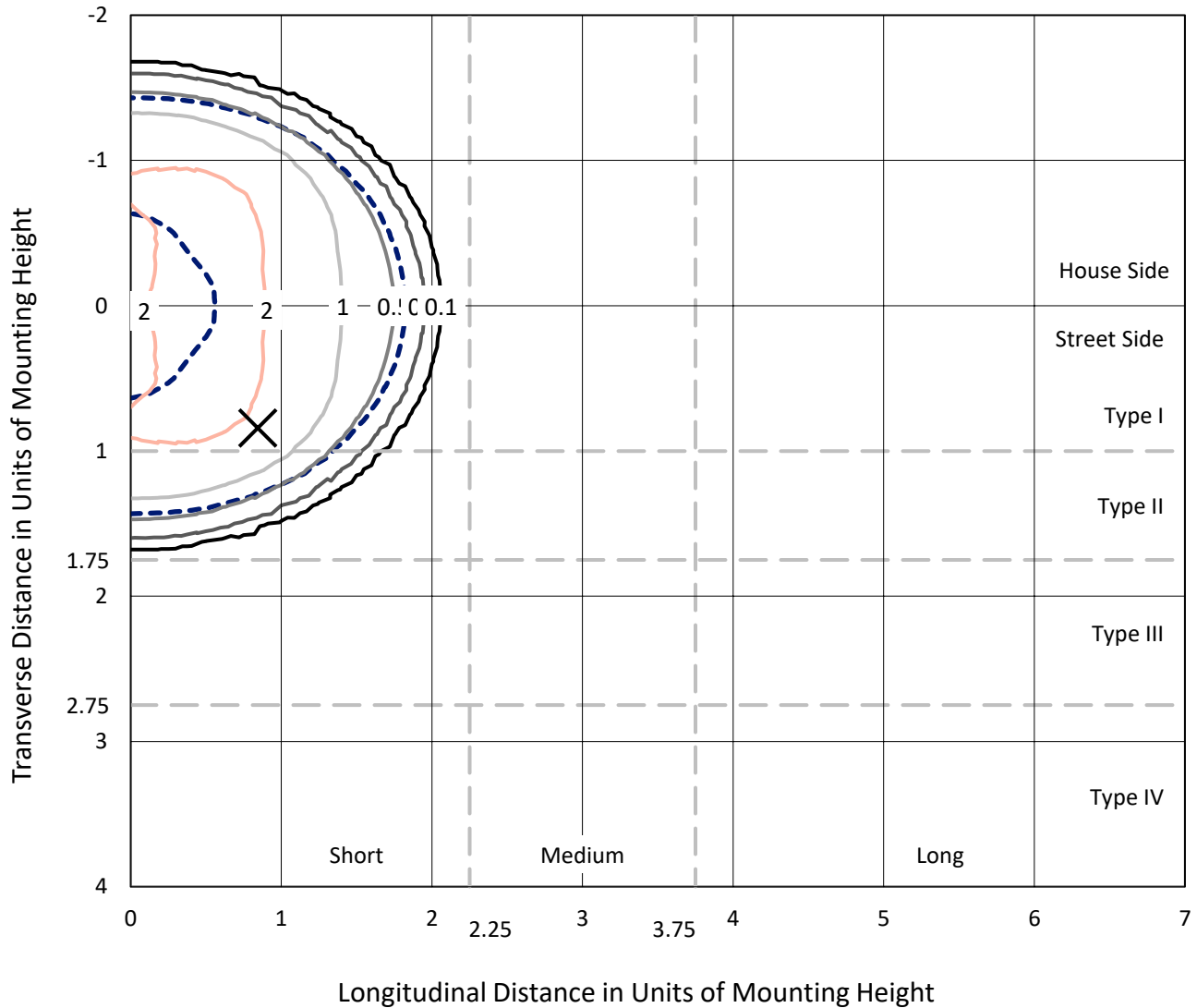
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

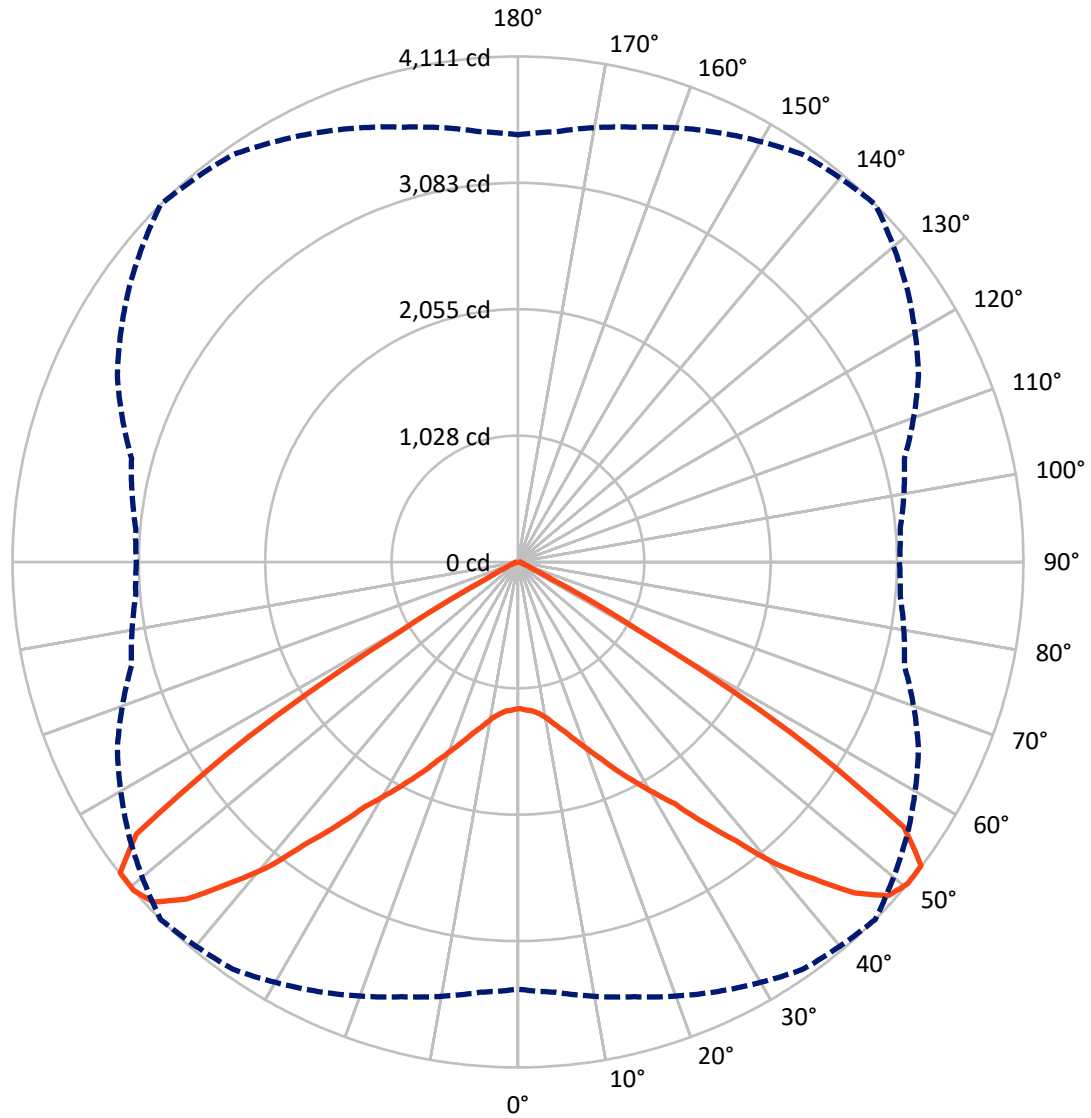
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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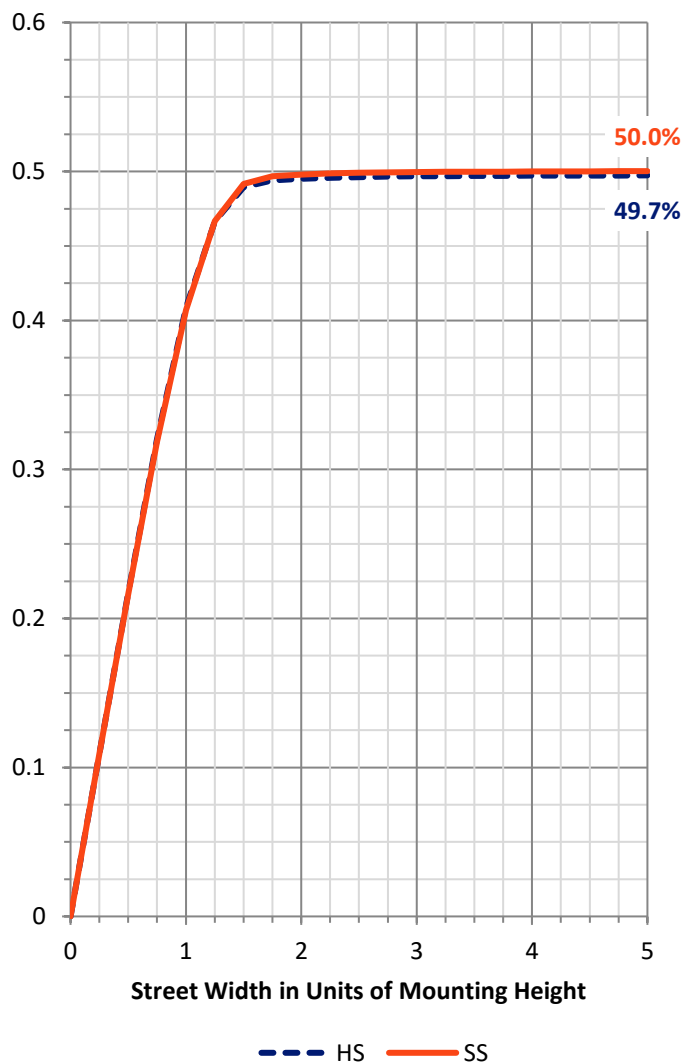
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4297.0	0.0	4297.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4297.0	0.0	4297.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8594.0	0.0	8594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	1.4
10°-20°	408.5	4.8
20°-30°	834.4	9.7
30°-40°	1591.2	18.5
40°-50°	2681.3	31.2
50°-60°	2557.1	29.8
60°-70°	357.0	4.2
70°-80°	34.1	0.4
80°-90°	11.8	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°	8594.0	100.0
0°-180°	8594.0	100.0

Coefficient of Utilization



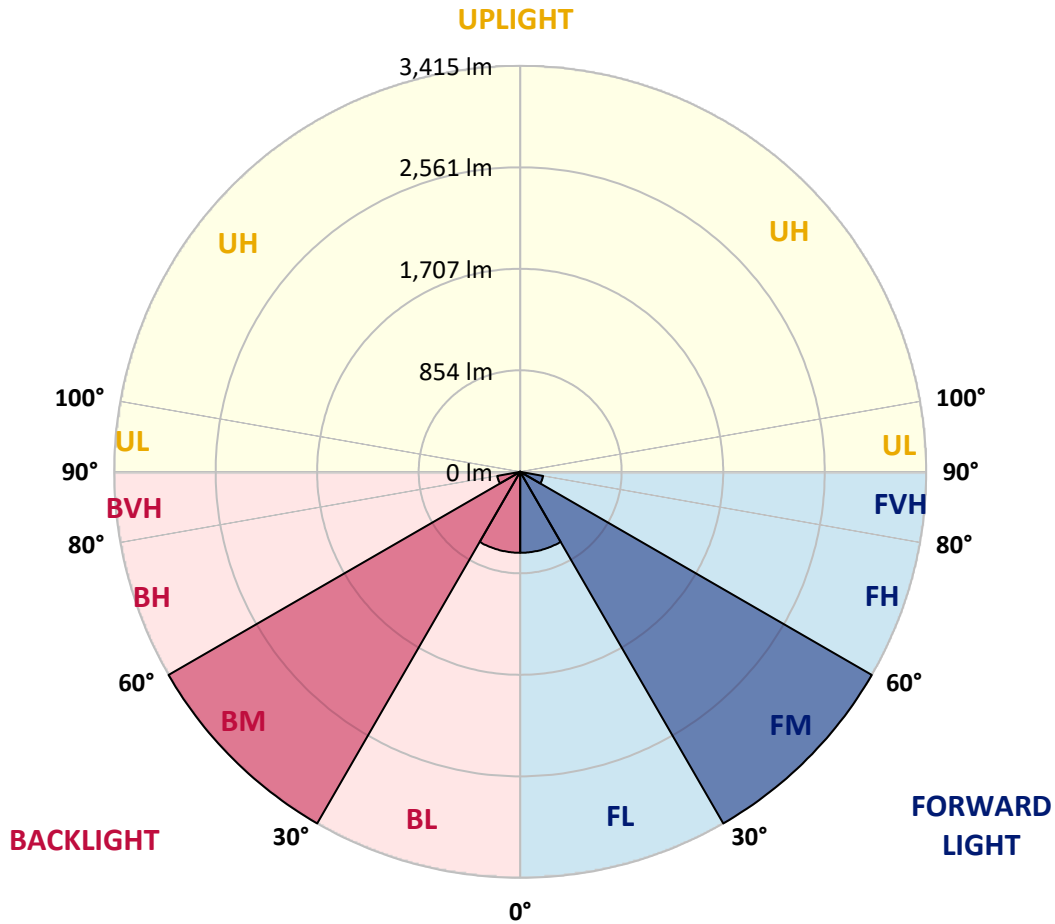
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.7	7.9			
FM (30°-60°)	3414.8	39.7			
FH (60°-80°)	195.5	2.3			G0/660
FVH (80°-90°)	5.9	0.1			G0/10
BL (0°-30°)	680.7	7.9	B2/1000		
BM (30°-60°)	3414.8	39.7	B3/5000		
BH (60°-80°)	195.5	2.3	B1/500		G0/660
BVH (80°-90°)	5.9	0.1			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°	1191.5	1191.5	1191.5	1191.5	1191.5	1191.5	1191.5	1191.5	1191.5	1191.5	1191.5
2.5°	1187.1	1187.1	1185.7	1197.2	1191.5	1204.5	1203.0	1207.4	1211.7	1210.3	1221.8
5°	1177.0	1175.6	1175.6	1188.6	1201.6	1216.0	1229.1	1237.7	1252.2	1252.2	1266.7
7.5°	1187.1	1179.9	1190.0	1195.8	1220.4	1245.0	1266.7	1284.0	1317.3	1328.8	1324.5
10°	1190.0	1198.7	1205.9	1223.3	1253.6	1291.2	1310.0	1353.4	1391.0	1417.0	1422.8
12.5°	1208.8	1221.8	1242.1	1284.0	1311.5	1360.6	1386.7	1428.6	1480.7	1509.6	1529.8
15°	1245.0	1249.3	1275.3	1328.8	1388.1	1432.9	1473.4	1503.8	1554.4	1587.7	1589.1
17.5°	1291.2	1310.0	1346.2	1396.8	1459.0	1525.5	1557.3	1590.5	1609.3	1654.2	1664.3
20°	1383.8	1386.7	1421.4	1487.9	1566.0	1626.7	1649.8	1667.2	1660.0	1706.2	1714.9
22.5°	1470.5	1473.4	1516.8	1606.5	1690.3	1742.4	1752.5	1742.4	1720.7	1753.9	1756.8
25°	1558.7	1584.8	1616.6	1706.2	1810.3	1879.7	1881.2	1853.7	1808.9	1814.7	1829.1
27.5°	1696.1	1714.9	1748.2	1830.6	1944.8	2022.9	2009.9	1976.6	1918.8	1923.1	1918.8
30°	1856.6	1874.0	1901.4	2007.0	2090.8	2176.2	2195.0	2163.1	2076.4	2057.6	2079.3
32.5°	2050.4	2074.9	2125.5	2222.4	2293.3	2345.3	2358.3	2346.8	2265.8	2258.6	2273.0
35°	2286.0	2319.3	2365.6	2450.9	2508.7	2602.7	2602.7	2563.7	2489.9	2498.6	2497.2
37.5°	2534.8	2583.9	2656.2	2743.0	2821.1	2871.7	2855.8	2822.5	2748.8	2730.0	2748.8
40°	2847.1	2871.7	2962.8	3075.5	3171.0	3228.8	3160.8	3088.6	2912.1	2939.6	2990.2
42.5°	3131.9	3171.0	3240.4	3364.7	3473.2	3520.9	3439.9	3296.8	3084.2	3062.5	3100.1
45°	3374.8	3416.8	3507.9	3685.7	3800.0	3841.9	3662.6	3431.2	3188.3	3133.4	3149.3
47.5°	3536.8	3558.5	3685.7	3854.9	3959.0	4054.4	3797.1	3523.8	3237.5	3133.4	3127.6
50°	3474.6	3512.2	3661.1	3853.5	4042.9	4110.8	3865.0	3594.6	3253.4	3120.4	3103.0
52.5°	3085.7	3150.7	3317.0	3575.8	3862.1	4105.1	3959.0	3571.5	3247.6	3133.4	3159.4
55°	2147.2	2148.7	2351.1	2732.8	3238.9	3811.5	3821.6	3597.5	3285.2	3214.3	3215.8
57.5°	863.2	906.6	1061.3	1444.5	1911.5	2617.2	3111.7	3337.3	3289.5	3272.2	3317.0
60°	218.3	219.8	267.5	407.8	672.4	1122.1	1629.6	2205.1	2539.1	2653.3	2669.2
62.5°	111.3	112.8	124.4	144.6	183.6	300.8	535.0	848.8	1207.4	1389.6	1437.3
65°	91.1	91.1	98.3	108.4	109.9	115.7	138.8	198.1	287.7	326.8	331.1
67.5°	69.4	69.4	75.2	81.0	83.9	82.4	79.5	82.4	99.8	95.4	92.5
70°	43.4	44.8	47.7	53.5	56.4	57.8	59.3	62.2	70.9	73.7	70.9
72.5°	26.0	26.0	27.5	31.8	36.1	39.0	43.4	46.3	50.6	57.8	56.4
75°	11.6	11.6	14.5	18.8	23.1	27.5	31.8	36.1	39.0	43.4	44.8
77.5°	2.9	4.3	7.2	13.0	17.4	23.1	28.9	33.3	36.1	36.1	34.7
80°	1.4	1.4	5.8	10.1	18.8	24.6	31.8	34.7	39.0	36.1	31.8
82.5°	1.4	1.4	5.8	10.1	17.4	24.6	33.3	37.6	40.5	36.1	30.4
85°	0.0	1.4	4.3	8.7	14.5	17.4	14.5	10.1	5.8	5.8	4.3
87.5°	0.0	0.0	1.4	1.4	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)