

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: P647919

Luminaire Tested: **GALN-SA5A-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9353.7 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

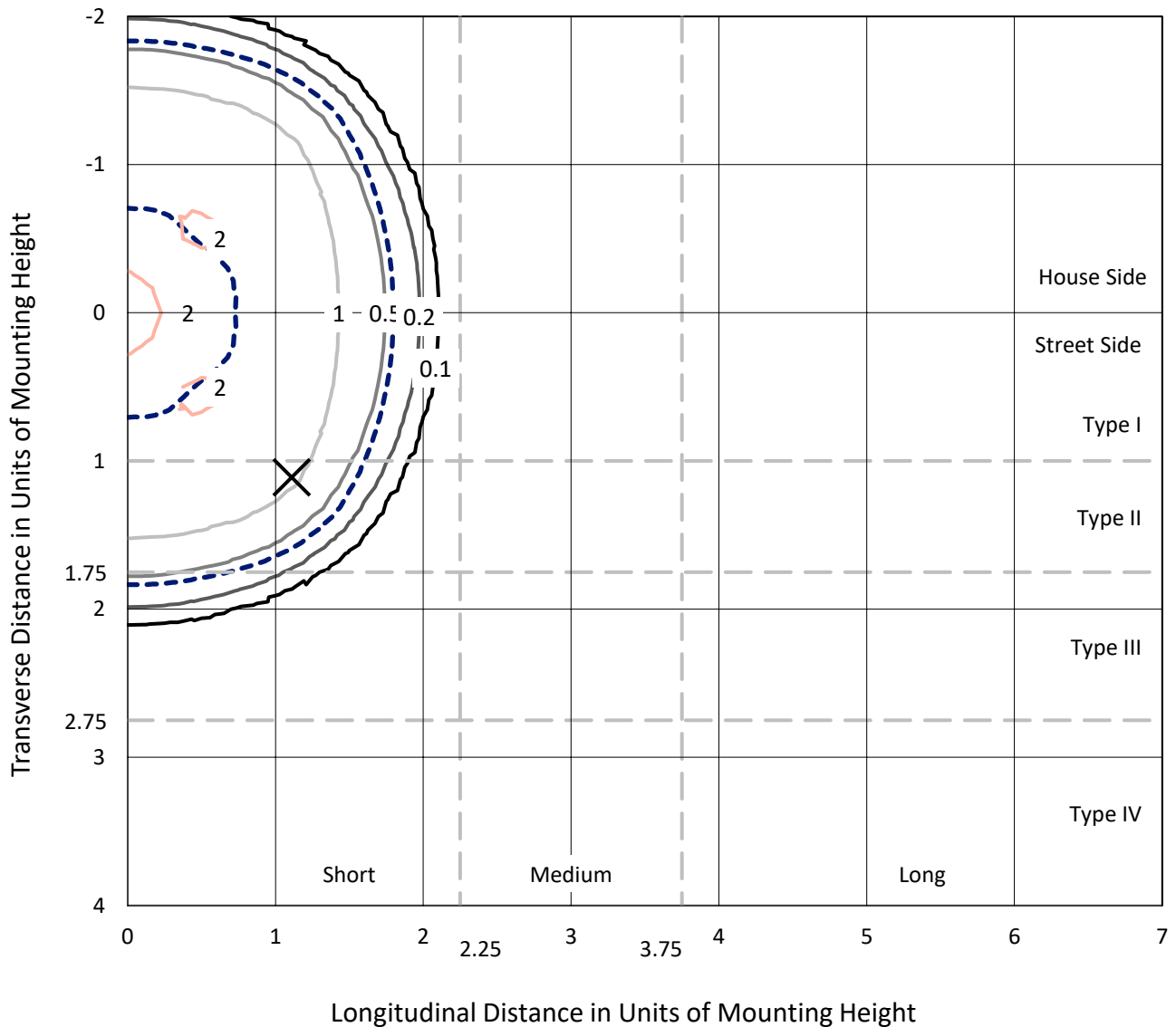
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

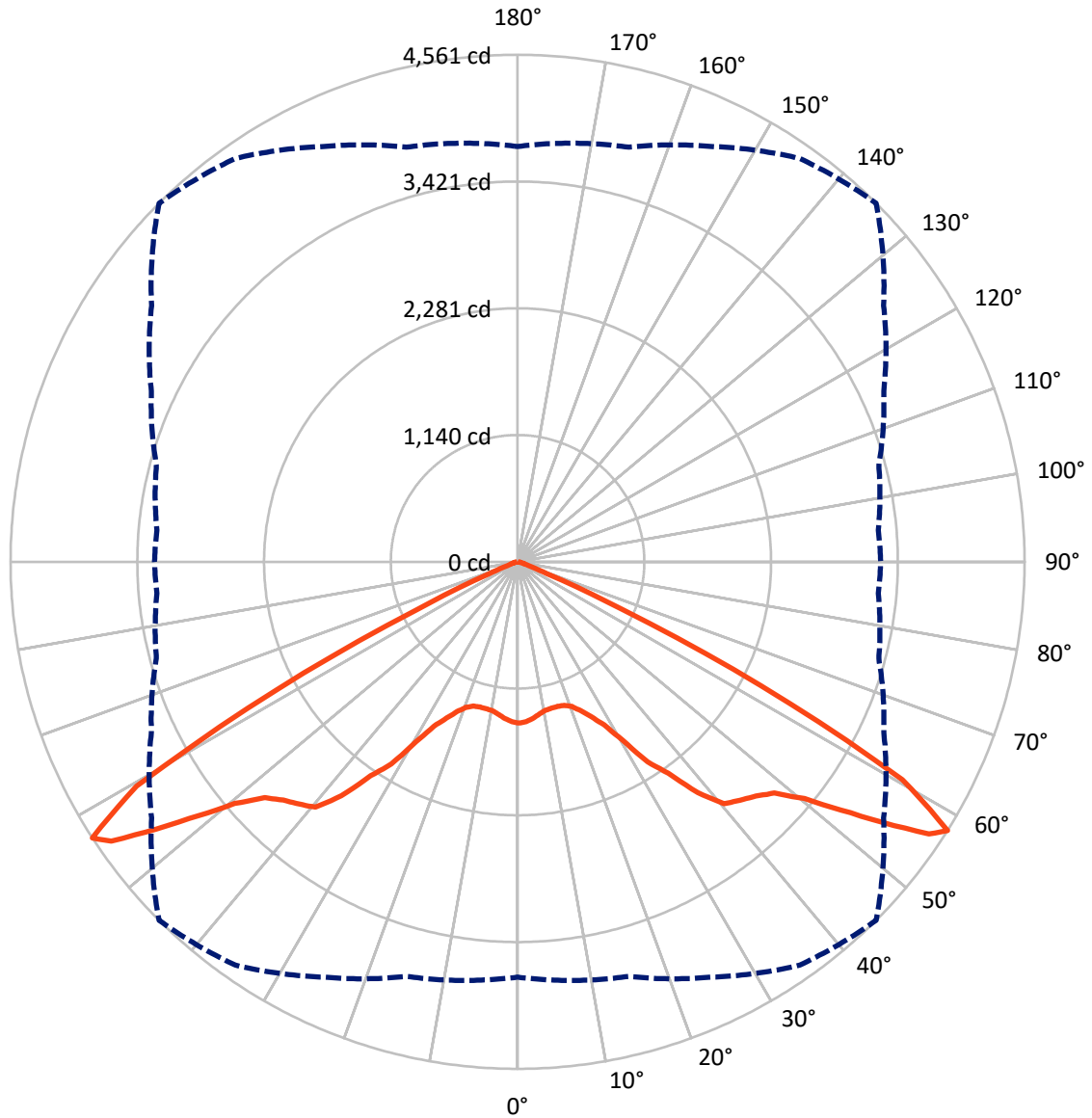
× Max cd
 - - - 1/2 Max cd



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 57.5-Deg Vertical

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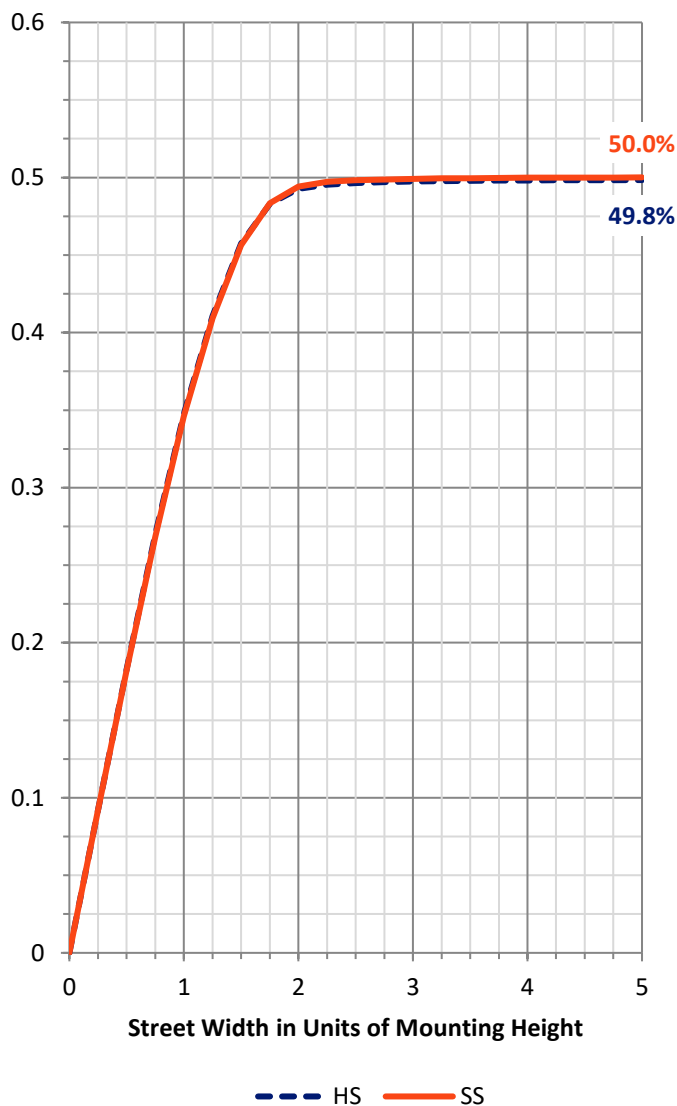
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4676.9	0.0	4676.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4676.9	0.0	4676.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	9353.7	0.0	9353.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	1.4
10°-20°	385.4	4.1
20°-30°	711.4	7.6
30°-40°	1399.0	15.0
40°-50°	2278.5	24.4
50°-60°	3249.5	34.7
60°-70°	1125.0	12.0
70°-80°	60.4	0.6
80°-90°	11.3	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°	9353.7	100.0
0°-180°	9353.7	100.0

Coefficient of Utilization



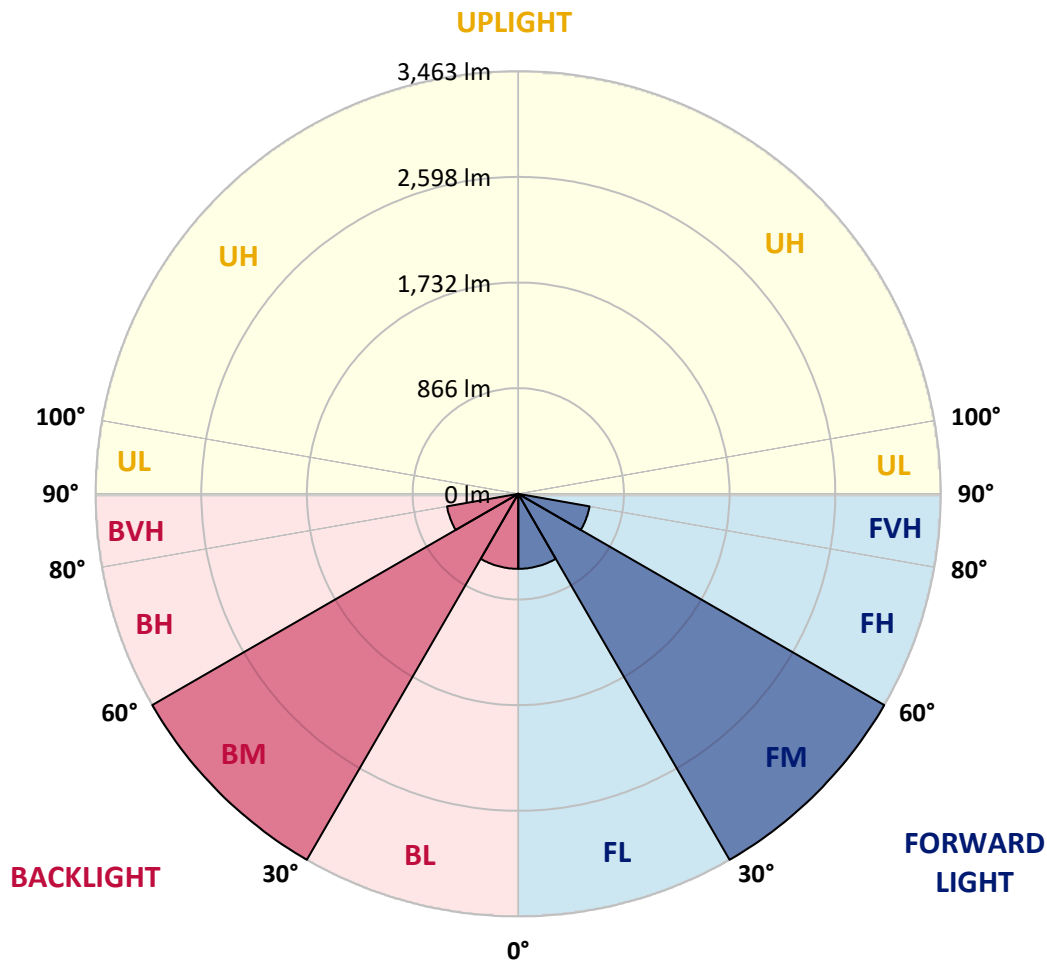
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	615.0	6.6			
FM	(30°-60°)	3463.5	37.0			
FH	(60°-80°)	592.7	6.3			G0/660
FVH	(80°-90°)	5.7	0.1			G0/10
BL	(0°-30°)	615.0	6.6	B2/1000		
BM	(30°-60°)	3463.5	37.0	B3/5000		
BH	(60°-80°)	592.7	6.3	B2/1000		G0/660
BVH	(80°-90°)	5.7	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°	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8
2.5°	1447.0	1454.7	1445.0	1441.1	1439.2	1439.2	1433.3	1433.3	1431.3	1433.3	1425.5
5°	1423.6	1431.3	1431.3	1429.4	1417.7	1415.7	1409.9	1406.0	1408.0	1400.2	1406.0
7.5°	1400.2	1406.0	1398.2	1396.2	1392.3	1384.6	1382.6	1365.1	1367.0	1367.0	1370.9
10°	1396.2	1394.3	1382.6	1372.8	1361.2	1359.2	1353.3	1349.4	1349.4	1347.5	1353.3
12.5°	1396.2	1386.5	1384.6	1363.1	1343.6	1351.4	1335.8	1326.1	1339.7	1343.6	1351.4
15°	1394.3	1404.1	1370.9	1361.2	1347.5	1349.4	1335.8	1326.1	1333.8	1337.8	1343.6
17.5°	1406.0	1400.2	1390.4	1370.9	1365.1	1357.3	1339.7	1331.9	1331.9	1341.7	1343.6
20°	1437.2	1421.6	1402.1	1392.3	1398.2	1388.5	1367.0	1337.8	1345.6	1353.3	1359.2
22.5°	1466.5	1454.7	1441.1	1435.2	1468.4	1452.8	1415.7	1382.6	1370.9	1384.6	1394.3
25°	1523.0	1523.0	1497.6	1505.5	1542.5	1544.5	1501.6	1443.1	1435.2	1441.1	1445.0
27.5°	1638.0	1643.9	1622.5	1630.3	1645.9	1659.5	1622.5	1573.8	1556.1	1554.2	1560.0
30°	1762.8	1774.6	1772.6	1805.8	1850.6	1858.5	1803.8	1723.9	1671.2	1661.4	1669.3
32.5°	1926.6	1932.5	1928.6	1967.6	2088.6	2145.1	2002.8	1889.6	1819.5	1837.0	1819.5
35°	2234.8	2229.0	2186.1	2193.8	2293.3	2334.3	2197.7	2125.6	2092.4	2127.6	2119.7
37.5°	2500.0	2478.6	2443.4	2494.2	2597.5	2634.6	2492.2	2365.4	2305.0	2363.5	2388.9
40°	2724.3	2669.6	2620.9	2671.6	2810.0	2860.8	2652.1	2548.7	2525.3	2568.2	2622.9
42.5°	2913.4	2878.3	2813.9	2817.9	2909.5	2932.9	2765.2	2704.8	2681.4	2749.6	2776.9
45°	3048.0	3014.8	2954.3	2950.5	3020.7	3005.1	2854.9	2813.9	2827.6	2872.4	2886.1
47.5°	3116.3	3133.8	3098.6	3108.4	3145.5	3108.4	2989.5	2989.5	2958.3	2985.6	2972.0
50°	3313.2	3258.6	3303.4	3303.4	3342.5	3346.3	3227.4	3184.5	3100.6	3053.9	3053.9
52.5°	3543.3	3547.2	3564.8	3629.1	3695.4	3752.0	3582.3	3399.0	3258.6	3198.2	3190.3
55°	3732.5	3771.5	3841.6	3962.5	4153.7	4231.6	3939.2	3611.6	3440.0	3346.3	3326.8
56°	3835.8	3798.7	3919.7	4085.4	4335.0	4436.4	3997.7	3654.4	3465.3	3360.0	3358.1
57.5°	3736.3	3777.3	3861.1	4122.5	4428.6	4561.2	4019.1	3634.9	3363.9	3256.7	3266.4
60°	2950.5	2989.5	3102.6	3395.1	3874.8	3978.2	3401.0	2997.2	2755.5	2601.4	2603.3
62.5°	1669.3	1698.5	1786.3	2057.3	2355.7	2455.2	2119.7	1850.6	1682.9	1597.1	1569.8
65°	614.3	602.6	616.2	754.7	938.0	1021.8	881.4	744.9	657.2	626.0	614.3
67.5°	230.1	212.6	198.9	212.6	267.2	282.7	259.3	216.4	202.8	208.7	212.6
70°	142.3	134.5	107.3	101.4	99.4	97.5	103.4	109.2	124.8	146.3	150.2
72.5°	99.4	93.6	76.0	72.1	68.3	66.3	76.0	83.9	97.5	113.1	115.0
75°	39.0	41.0	39.0	42.9	44.9	46.8	54.6	60.4	66.3	66.3	64.4
77.5°	7.8	7.8	11.7	15.6	19.5	25.4	37.0	42.9	44.9	42.9	37.0
80°	0.0	0.0	3.9	7.8	15.6	21.5	33.1	37.0	41.0	37.0	29.3
82.5°	0.0	0.0	3.9	9.8	15.6	19.5	31.2	39.0	44.9	41.0	31.2
85°	0.0	0.0	3.9	7.8	11.7	13.6	13.6	9.8	9.8	5.9	3.9
87.5°	0.0	0.0	0.0	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)