

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: P647314

Luminaire Tested: **GALN-SA3D-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647314  
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-SA3D-835-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA 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: 9432 lumens  
Efficiency: N/A  
Efficacy: 51.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

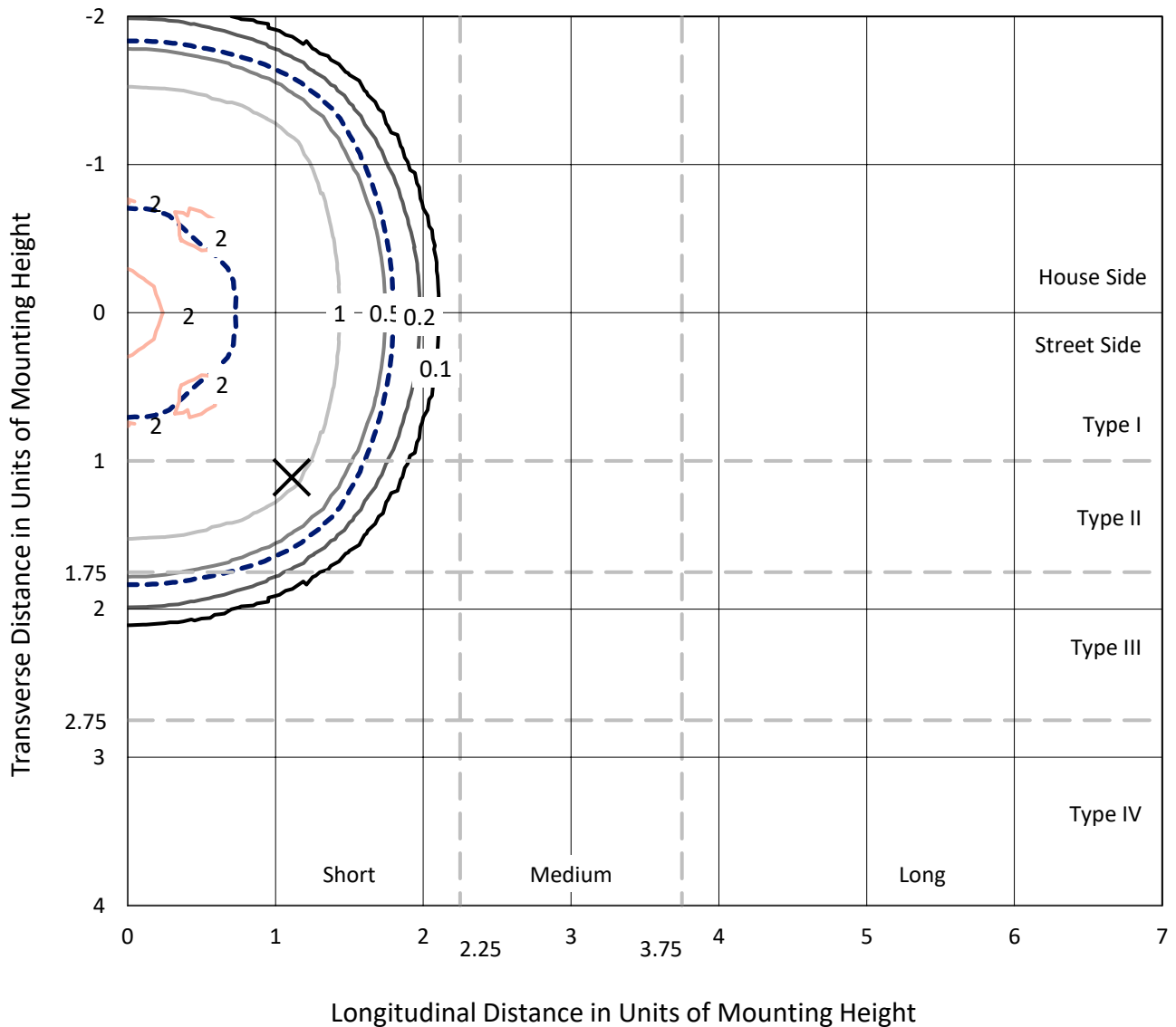
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

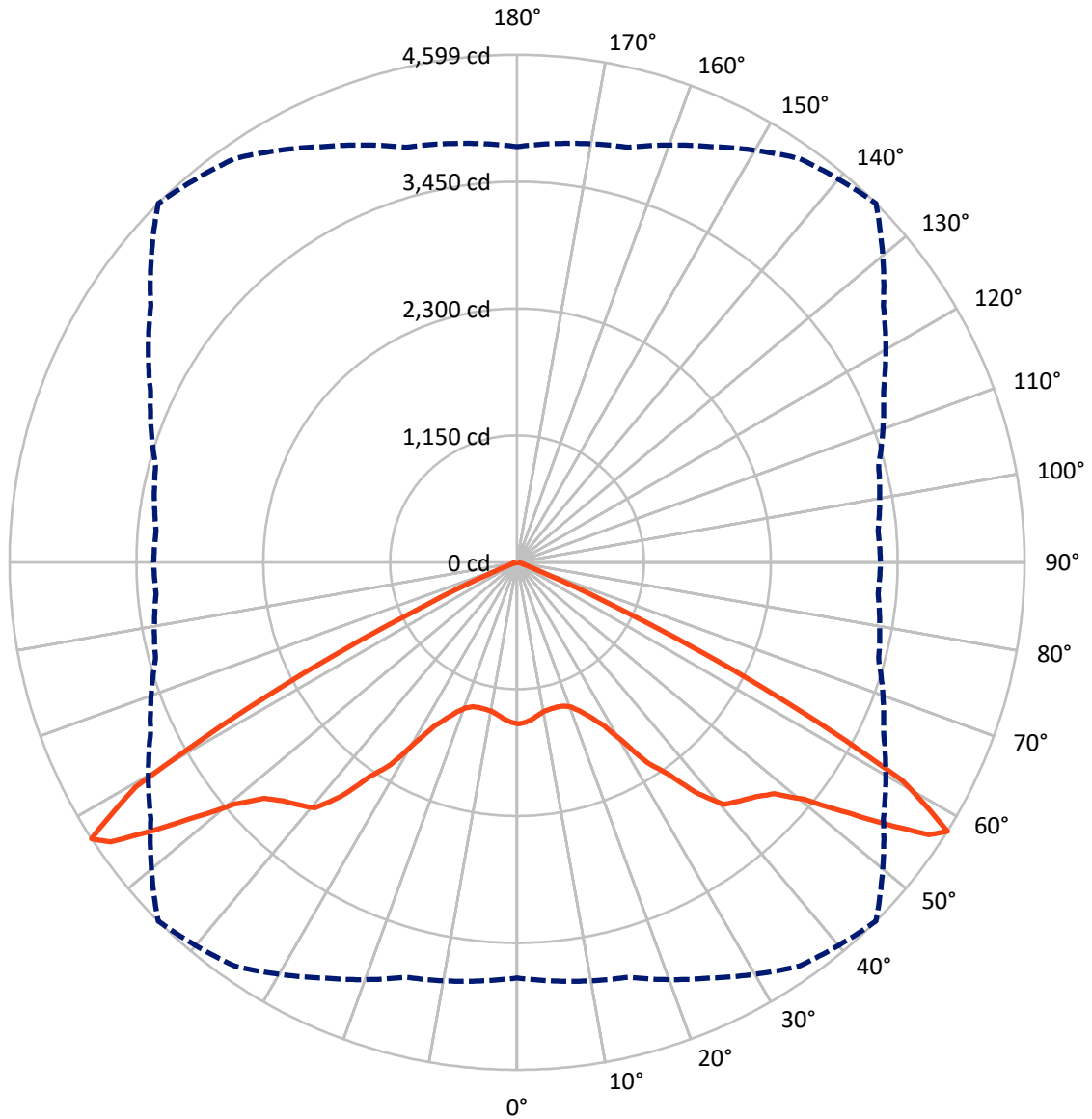
× Max cd  
 - - - 1/2 Max cd



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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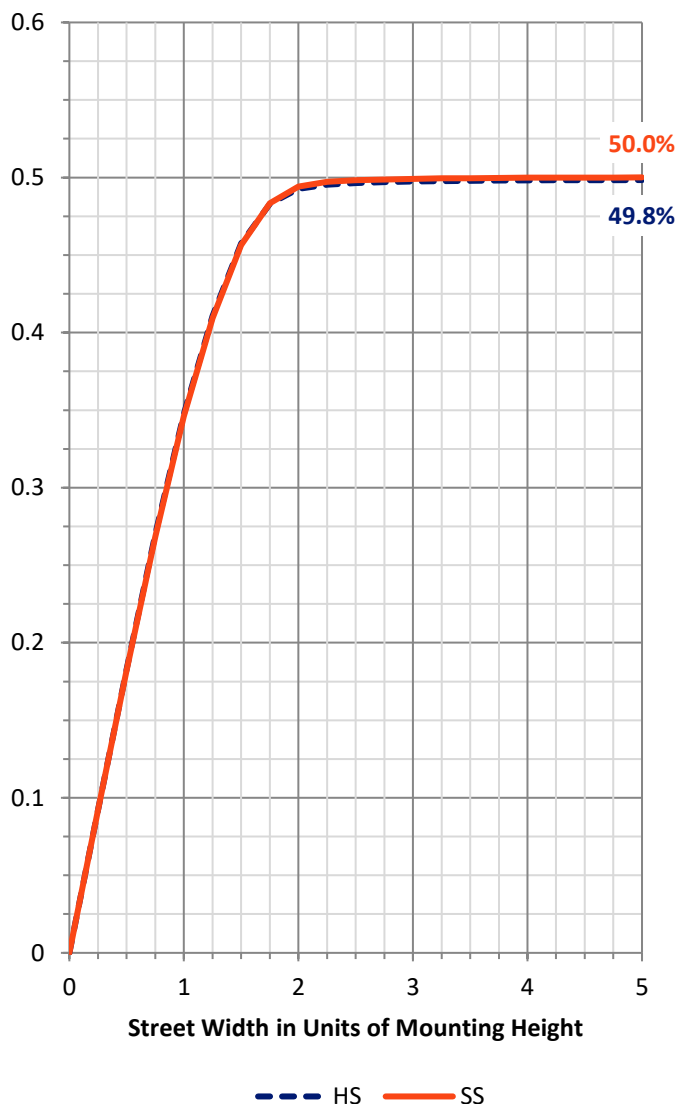
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4716.0	0.0	4716.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4716.0	0.0	4716.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9432.0	0.0	9432.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.4	1.4
10°-20°	388.6	4.1
20°-30°	717.3	7.6
30°-40°	1410.7	15.0
40°-50°	2297.6	24.4
50°-60°	3276.7	34.7
60°-70°	1134.5	12.0
70°-80°	60.9	0.6
80°-90°	11.4	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°	9432.0	100.0
0°-180°	9432.0	100.0

**Coefficient of Utilization**



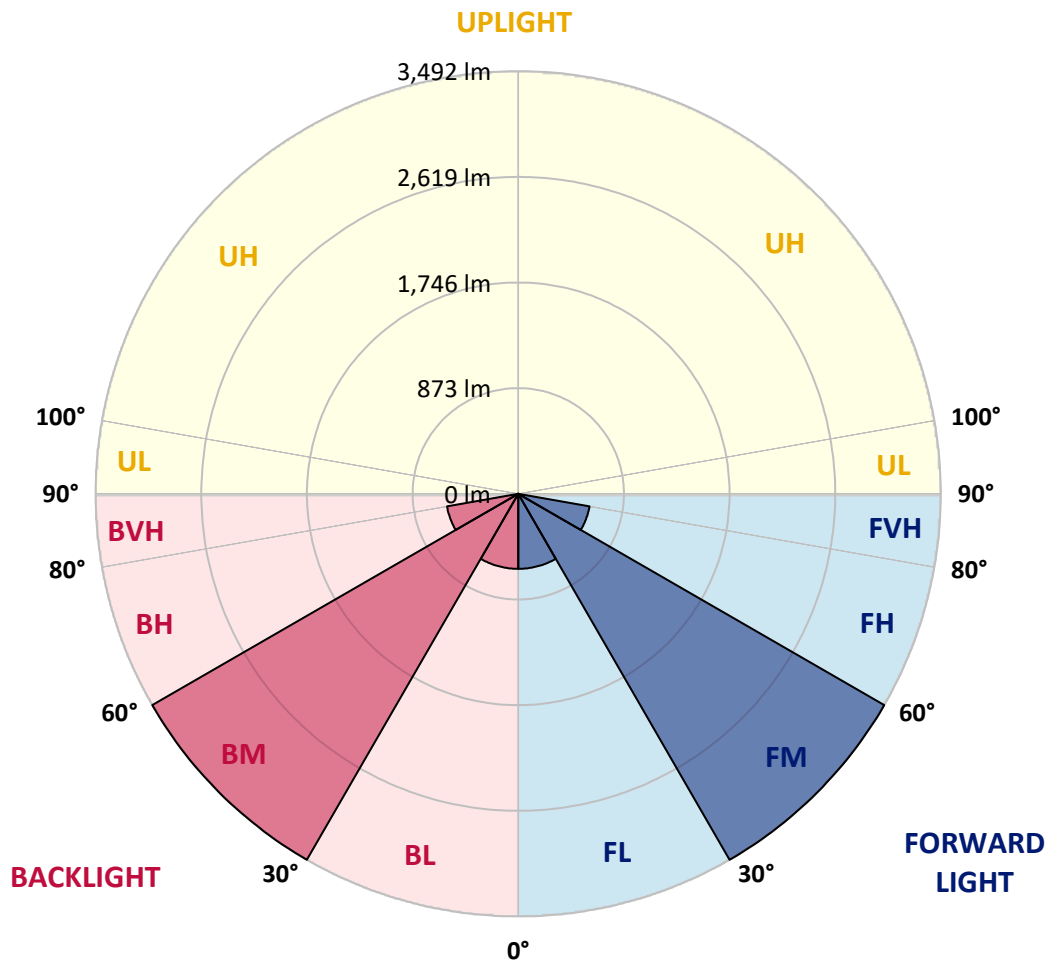
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.2	6.6			
FM (30°-60°)	3492.5	37.0			
FH (60°-80°)	597.7	6.3			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	620.2	6.6	B2/1000		
BM (30°-60°)	3492.5	37.0	B3/5000		
BH (60°-80°)	597.7	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°	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0
2.5°	1459.0	1467.0	1457.1	1453.2	1451.2	1451.2	1445.3	1445.3	1443.3	1445.3	1437.4
5°	1435.5	1443.3	1443.3	1441.3	1429.6	1427.6	1421.7	1417.8	1419.7	1411.9	1417.8
7.5°	1411.9	1417.8	1409.9	1407.9	1404.0	1396.2	1394.2	1376.5	1378.5	1378.5	1382.4
10°	1407.9	1406.0	1394.2	1384.3	1372.5	1370.6	1364.7	1360.8	1360.8	1358.8	1364.7
12.5°	1407.9	1398.1	1396.2	1374.5	1354.8	1362.7	1347.0	1337.1	1350.9	1354.8	1362.7
15°	1406.0	1415.8	1382.4	1372.5	1358.8	1360.8	1347.0	1337.1	1345.0	1349.0	1354.8
17.5°	1417.8	1411.9	1402.0	1382.4	1376.5	1368.6	1350.9	1343.1	1343.1	1352.9	1354.8
20°	1449.3	1433.5	1413.9	1404.0	1409.9	1400.1	1378.5	1349.0	1356.8	1364.7	1370.6
22.5°	1478.8	1467.0	1453.2	1447.3	1480.7	1465.0	1427.6	1394.2	1382.4	1396.2	1406.0
25°	1535.8	1535.8	1510.2	1518.1	1555.4	1557.4	1514.2	1455.1	1447.3	1453.2	1457.1
27.5°	1651.8	1657.7	1636.1	1643.9	1659.6	1673.4	1636.1	1586.9	1569.2	1567.3	1573.1
30°	1777.6	1789.4	1787.4	1820.9	1866.1	1874.0	1818.9	1738.3	1685.2	1675.4	1683.2
32.5°	1942.8	1948.7	1944.7	1984.1	2106.0	2163.0	2019.5	1905.4	1834.6	1852.3	1834.6
35°	2253.5	2247.6	2204.3	2212.2	2312.5	2353.8	2216.1	2143.4	2110.0	2145.3	2137.5
37.5°	2520.9	2499.3	2463.9	2515.0	2619.2	2656.6	2513.0	2385.3	2324.3	2383.3	2408.8
40°	2747.1	2692.0	2642.9	2694.0	2833.6	2884.7	2674.3	2570.1	2546.5	2589.8	2644.8
42.5°	2937.8	2902.4	2837.5	2841.4	2933.9	2957.5	2788.3	2727.4	2703.8	2772.6	2800.2
45°	3073.5	3040.1	2979.1	2975.2	3045.9	3030.2	2878.8	2837.5	2851.3	2896.6	2910.3
47.5°	3142.3	3160.0	3124.6	3134.4	3171.8	3134.4	3014.5	3014.5	2983.1	3010.6	2996.8
50°	3340.9	3285.9	3331.1	3331.1	3370.4	3374.3	3254.4	3211.2	3126.6	3079.4	3079.4
52.5°	3573.0	3576.9	3594.6	3659.5	3726.3	3783.4	3612.3	3427.4	3285.9	3224.9	3217.0
55°	3763.7	3803.0	3873.8	3995.7	4188.4	4267.1	3972.2	3641.8	3468.8	3374.3	3354.7
56°	3867.9	3830.6	3952.5	4119.6	4371.3	4473.6	4031.1	3685.0	3494.3	3388.1	3386.2
57.5°	3767.6	3808.9	3893.5	4156.9	4465.7	4599.4	4052.7	3665.4	3392.0	3283.9	3293.7
60°	2975.2	3014.5	3128.6	3423.5	3907.2	4011.5	3429.4	3022.4	2778.6	2623.2	2625.2
62.5°	1683.2	1712.7	1801.2	2074.6	2375.4	2475.7	2137.5	1866.1	1697.0	1610.5	1583.0
65°	619.4	607.6	621.4	761.0	945.9	1030.4	888.8	751.1	662.7	631.3	619.4
67.5°	232.0	214.3	200.6	214.3	269.4	285.1	261.5	218.3	204.5	210.4	214.3
70°	143.5	135.7	108.1	102.3	100.3	98.3	104.2	110.1	125.8	147.5	151.4
72.5°	100.3	94.4	76.7	72.7	68.8	66.9	76.7	84.6	98.3	114.1	116.0
75°	39.3	41.3	39.3	43.3	45.3	47.2	55.0	61.0	66.9	66.9	64.9
77.5°	7.8	7.8	11.8	15.7	19.7	25.5	37.3	43.3	45.3	43.3	37.3
80°	0.0	0.0	3.9	7.8	15.7	21.6	33.4	37.3	41.3	37.3	29.5
82.5°	0.0	0.0	3.9	9.9	15.7	19.7	31.5	39.3	45.3	41.3	31.5
85°	0.0	0.0	3.9	7.8	11.8	13.8	13.8	9.9	9.9	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)