

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: P459008

Luminaire Tested: **GALN-SA5B-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27782 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

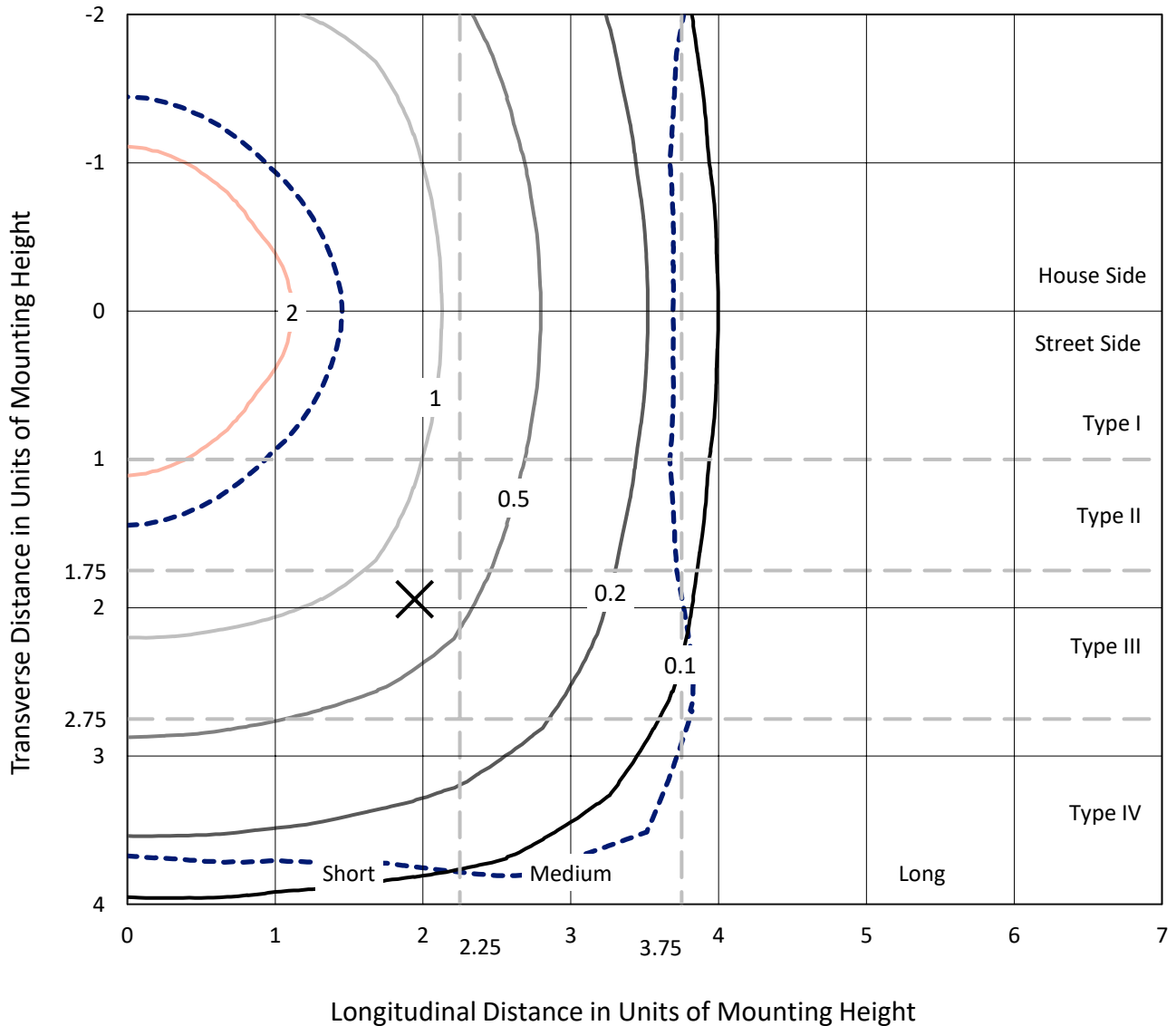
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

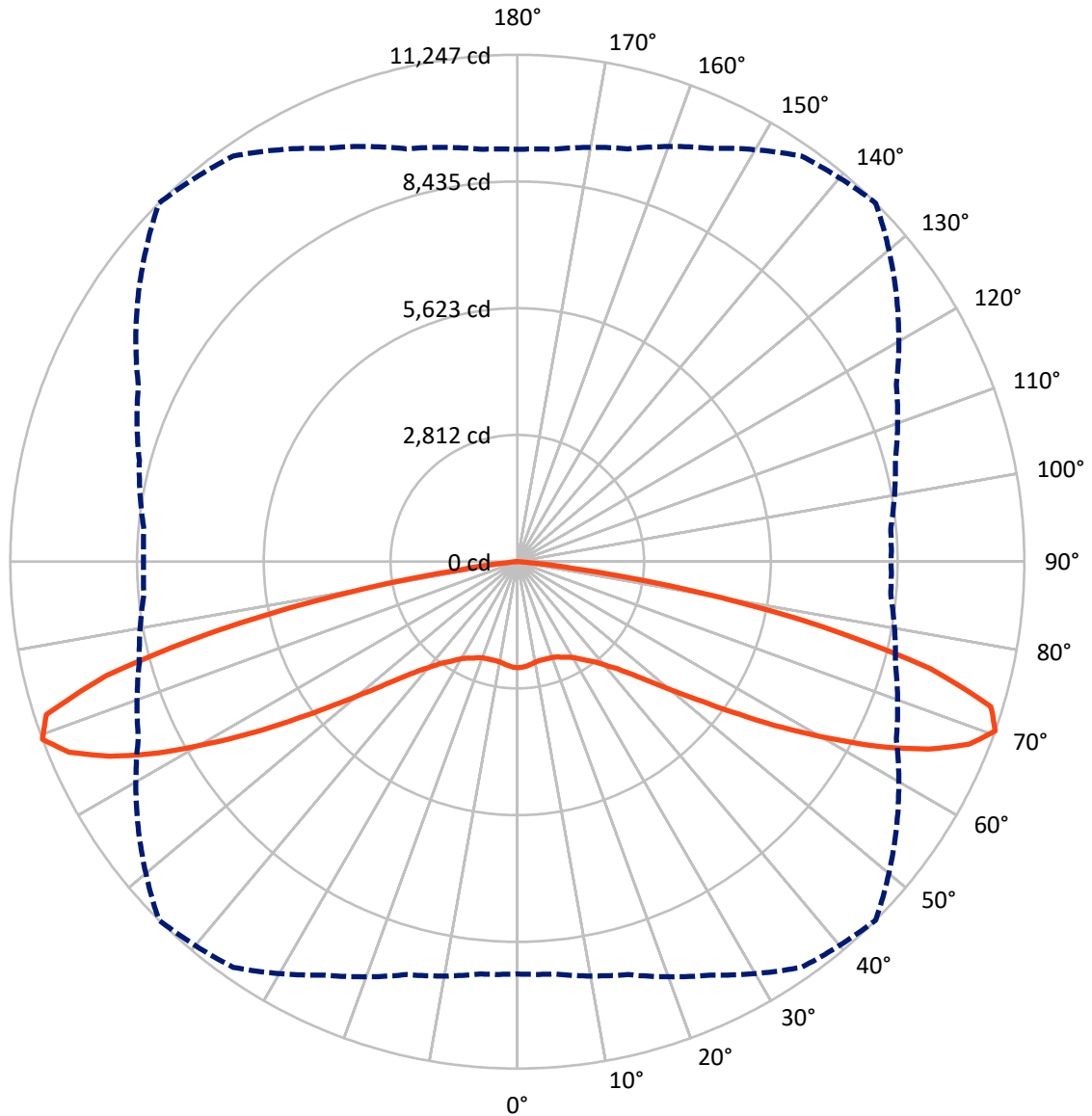
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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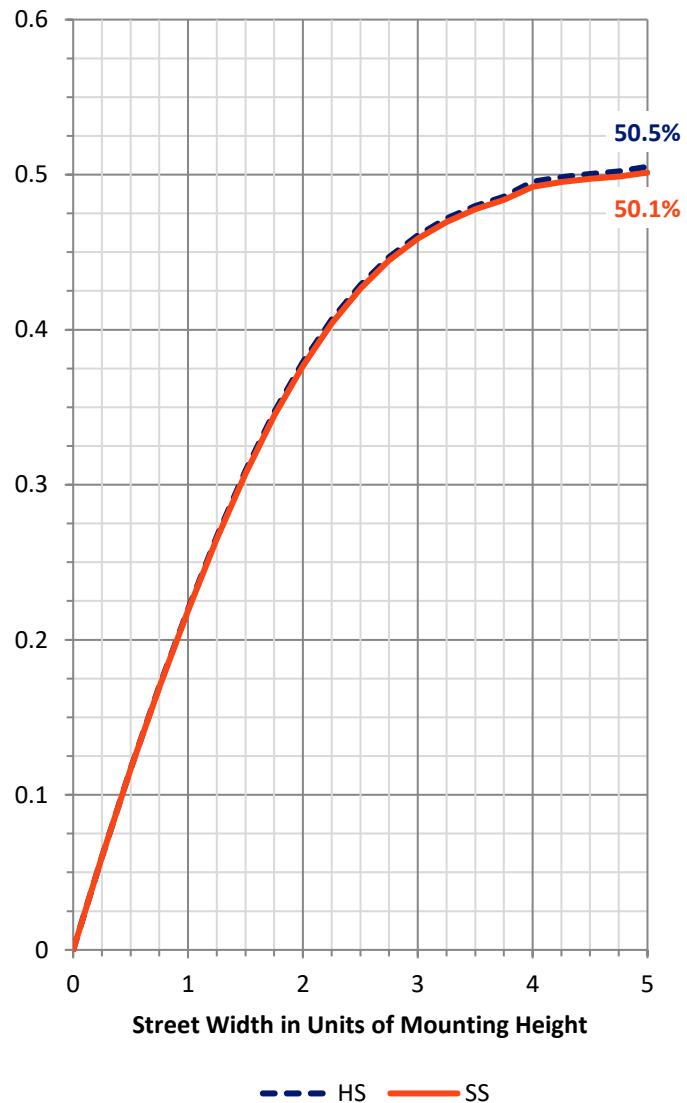
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13891.0	0.0	13891.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13891.0	0.0	13891.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27782.0	0.0	27782.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	0.8
10°-20°	644.0	2.3
20°-30°	1097.2	3.9
30°-40°	1700.6	6.1
40°-50°	2862.3	10.3
50°-60°	5207.8	18.7
60°-70°	8816.8	31.7
70°-80°	6824.5	24.6
80°-90°	408.9	1.5
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°	27782.0	100.0
0°-180°	27782.0	100.0



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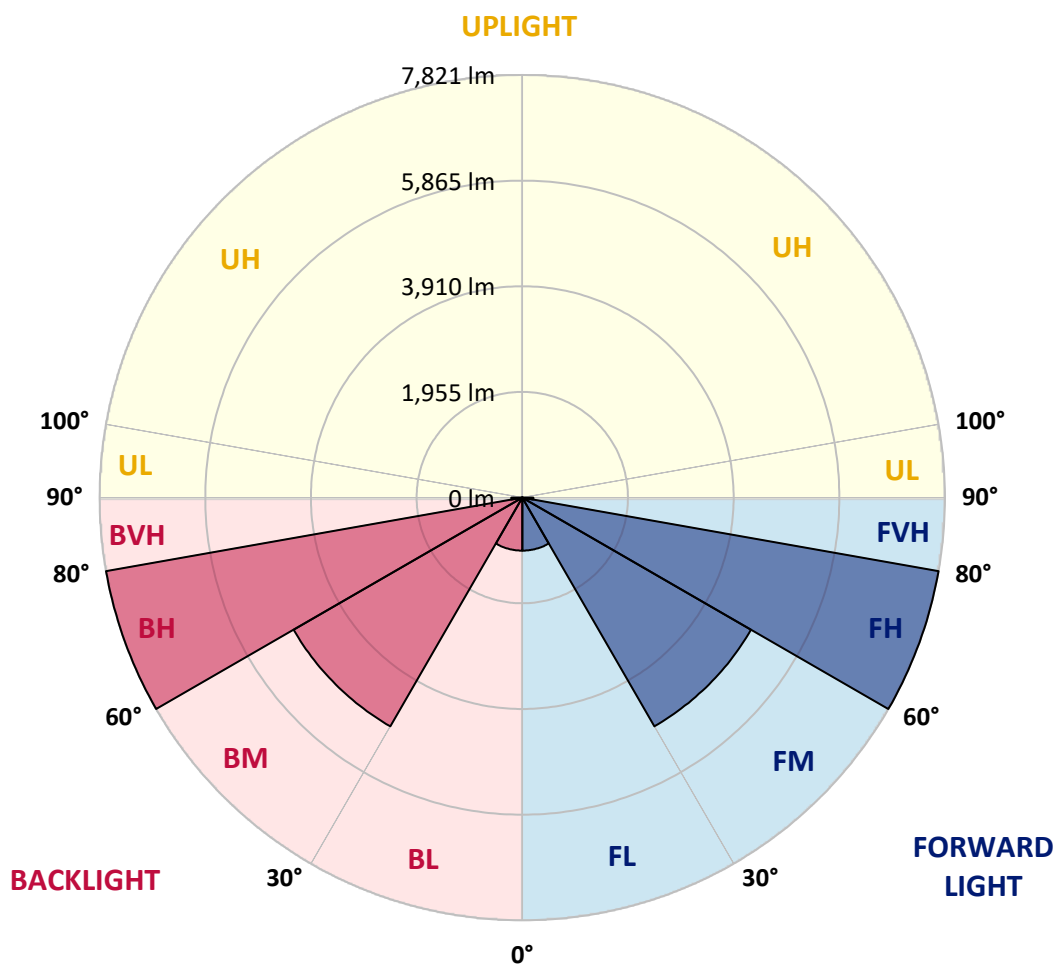
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	980.5	3.5			
FM	(30°-60°)	4885.4	17.6			
FH	(60°-80°)	7820.6	28.1			G4/12000
FVH	(80°-90°)	204.5	0.7			G2/225
BL	(0°-30°)	980.5	3.5	B2/1000		
BM	(30°-60°)	4885.4	17.6	B3/5000		
BH	(60°-80°)	7820.6	28.1	B5		G4/12000
BVH	(80°-90°)	204.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1	2352.1
2.5°	2346.2	2347.7	2347.7	2344.7	2343.3	2343.3	2341.8	2341.8	2346.2	2347.7	2349.2
5°	2325.7	2325.7	2325.7	2324.2	2321.3	2321.3	2318.3	2318.3	2319.8	2324.2	2321.3
7.5°	2297.8	2300.7	2300.7	2294.9	2290.5	2290.5	2289.0	2290.5	2291.9	2296.3	2294.9
10°	2289.0	2290.5	2283.1	2272.9	2265.5	2261.1	2262.6	2265.5	2272.9	2275.8	2277.3
12.5°	2294.9	2294.9	2281.7	2267.0	2253.8	2247.9	2246.4	2256.7	2269.9	2278.7	2281.7
15°	2302.2	2299.3	2283.1	2264.0	2250.8	2249.4	2247.9	2255.2	2274.3	2291.9	2293.4
17.5°	2306.6	2305.1	2284.6	2261.1	2253.8	2253.8	2252.3	2258.2	2278.7	2300.7	2302.2
20°	2321.3	2316.9	2293.4	2268.5	2262.6	2265.5	2261.1	2268.5	2290.5	2316.9	2322.7
22.5°	2350.6	2346.2	2322.7	2297.8	2294.9	2294.9	2293.4	2300.7	2324.2	2352.1	2356.5
25°	2385.8	2381.4	2359.4	2341.8	2344.7	2350.6	2347.7	2349.2	2368.2	2391.7	2399.0
27.5°	2432.8	2425.5	2406.4	2391.7	2400.5	2400.5	2400.5	2399.0	2410.8	2432.8	2440.1
30°	2490.0	2487.1	2466.5	2465.1	2472.4	2465.1	2465.1	2466.5	2468.0	2488.5	2495.9
32.5°	2564.8	2559.0	2548.7	2545.8	2566.3	2572.2	2551.6	2532.6	2542.8	2563.4	2567.8
35°	2688.1	2679.3	2664.6	2648.5	2664.6	2692.5	2648.5	2633.8	2660.2	2688.1	2691.0
37.5°	2855.4	2851.0	2827.5	2798.1	2796.7	2826.0	2780.5	2779.1	2829.0	2862.7	2867.1
40°	3065.2	3069.6	3040.3	3012.4	2997.7	3021.2	2986.0	2999.2	3047.6	3085.7	3082.8
42.5°	3360.1	3344.0	3298.5	3272.1	3255.9	3247.1	3238.3	3258.9	3313.2	3354.3	3386.5
45°	3704.9	3699.1	3641.8	3609.6	3574.3	3561.1	3558.2	3594.9	3660.9	3710.8	3715.2
47.5°	4095.2	4082.0	4045.4	4011.6	3998.4	3982.3	3967.6	3995.5	4061.5	4096.7	4107.0
50°	4497.3	4500.2	4500.2	4494.3	4507.6	4510.5	4470.9	4481.1	4517.8	4514.9	4512.0
52.5°	4956.5	4972.7	5049.0	5056.3	5119.4	5162.0	5090.1	5047.5	5034.3	4955.1	4961.0
55°	5496.5	5511.2	5625.6	5740.1	5910.3	5982.2	5831.1	5699.0	5605.1	5484.8	5490.6
57.5°	6170.0	6177.3	6285.9	6506.0	6776.0	6944.7	6679.2	6418.0	6227.2	6112.8	6067.3
60°	6894.9	6902.2	7060.7	7329.2	7748.8	7954.2	7625.6	7198.6	6958.0	6783.3	6795.1
62.5°	7765.0	7794.3	7936.6	8306.4	8815.6	9045.9	8610.1	8039.4	7713.6	7496.5	7505.3
65°	8696.7	8746.6	8902.1	9308.6	9778.1	10026.1	9492.0	8833.2	8428.2	8162.6	8190.5
67.5°	9301.2	9345.3	9569.7	10018.7	10604.2	10809.6	10120.0	9352.6	8846.4	8529.4	8470.7
70°	9147.2	9183.8	9483.2	10120.0	10987.2	11246.9	10269.7	9276.3	8680.6	8315.2	8291.7
72.5°	8074.6	7998.3	8435.5	9349.7	10549.9	10985.7	9798.6	8472.2	7722.4	7346.8	7302.8
75°	5351.3	5517.1	6162.7	7239.7	8925.6	9465.6	8363.6	6802.4	5858.9	5546.4	5498.0
77.5°	1788.6	1916.3	2490.0	4104.0	6084.9	6896.3	6093.7	4448.9	3147.4	2535.5	2547.2
80°	473.9	468.1	606.0	1128.4	2629.4	3994.0	3060.8	1506.9	824.6	597.2	566.4
82.5°	170.2	190.7	245.0	312.5	697.0	1241.3	876.0	422.6	309.6	228.9	221.6
85°	74.8	73.4	105.6	124.7	174.6	231.8	205.4	179.0	157.0	104.2	96.8
87.5°	16.1	16.1	24.9	19.1	30.8	30.8	38.1	45.5	47.0	30.8	24.9
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)