

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: P458775

Luminaire Tested: **GALN-SA3B-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16514 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

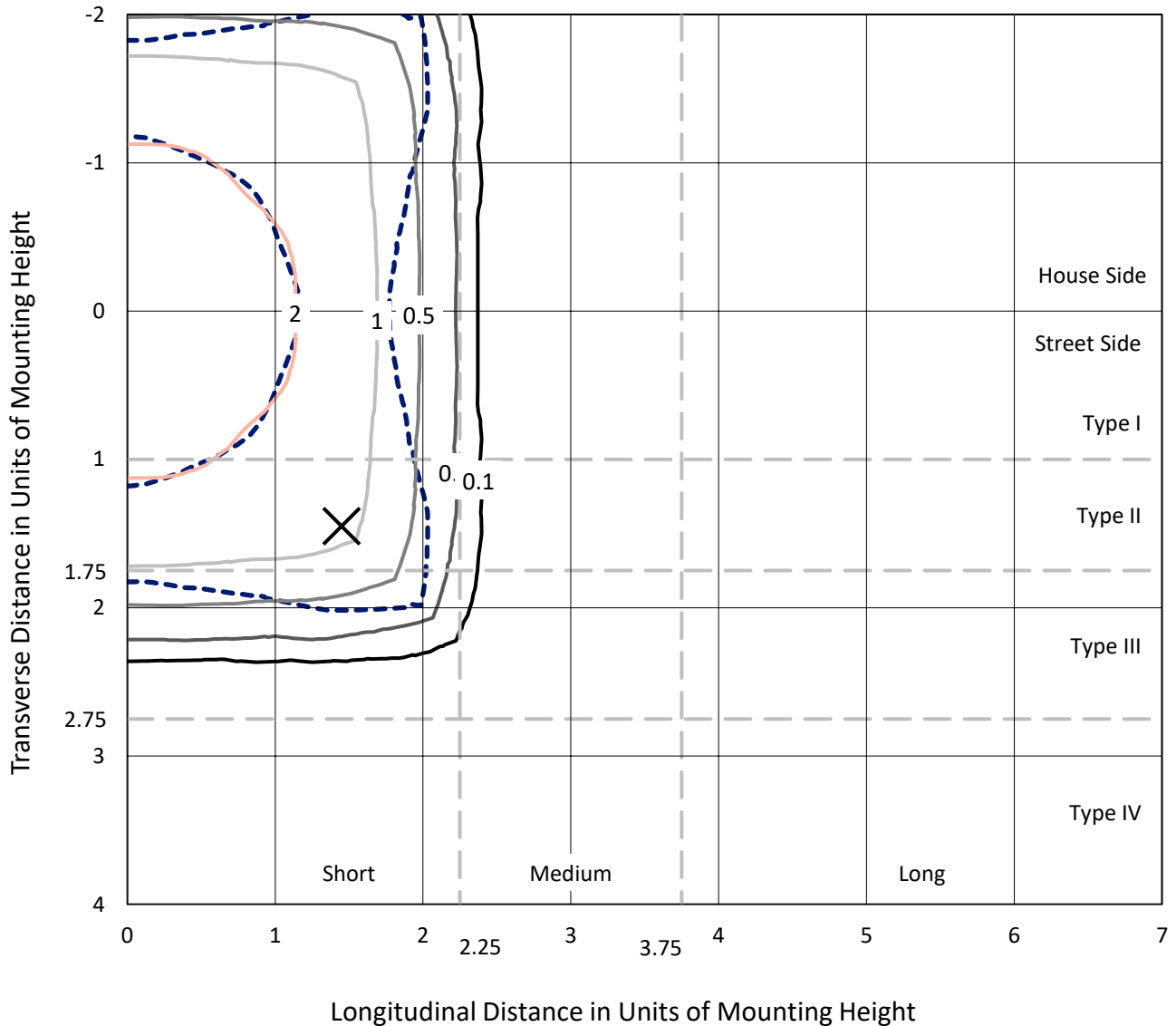
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

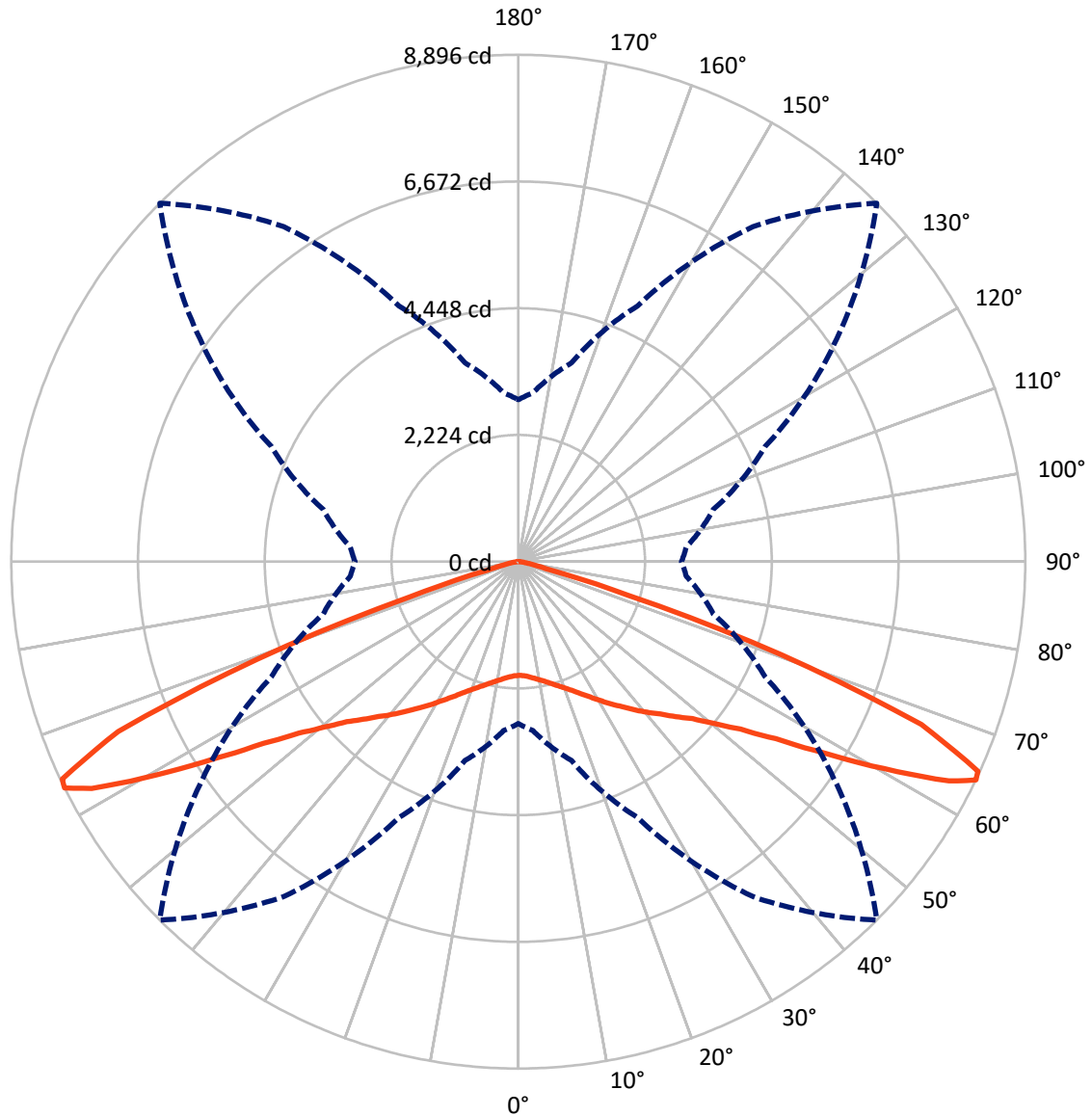
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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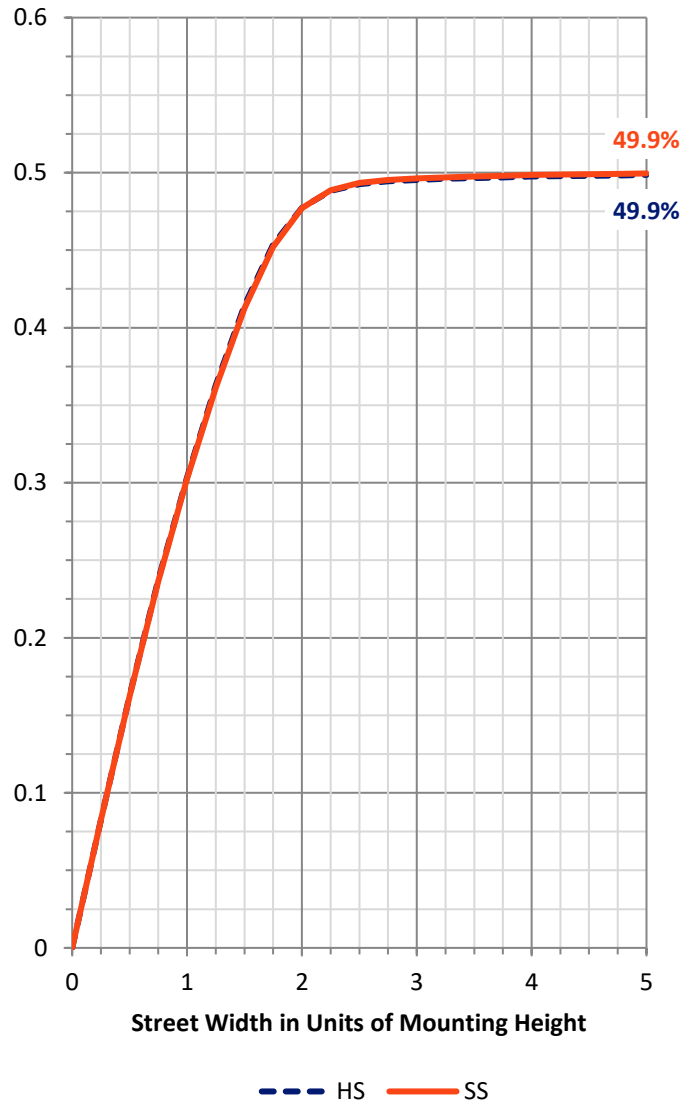
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8257.0	0.0	8257.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8257.0	0.0	8257.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16514.0	0.0	16514.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	1.2
10°-20°	632.5	3.8
20°-30°	1195.3	7.2
30°-40°	1979.5	12.0
40°-50°	3090.4	18.7
50°-60°	4777.7	28.9
60°-70°	4119.7	24.9
70°-80°	466.9	2.8
80°-90°	55.9	0.3
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°	16514.0	100.0
0°-180°	16514.0	100.0



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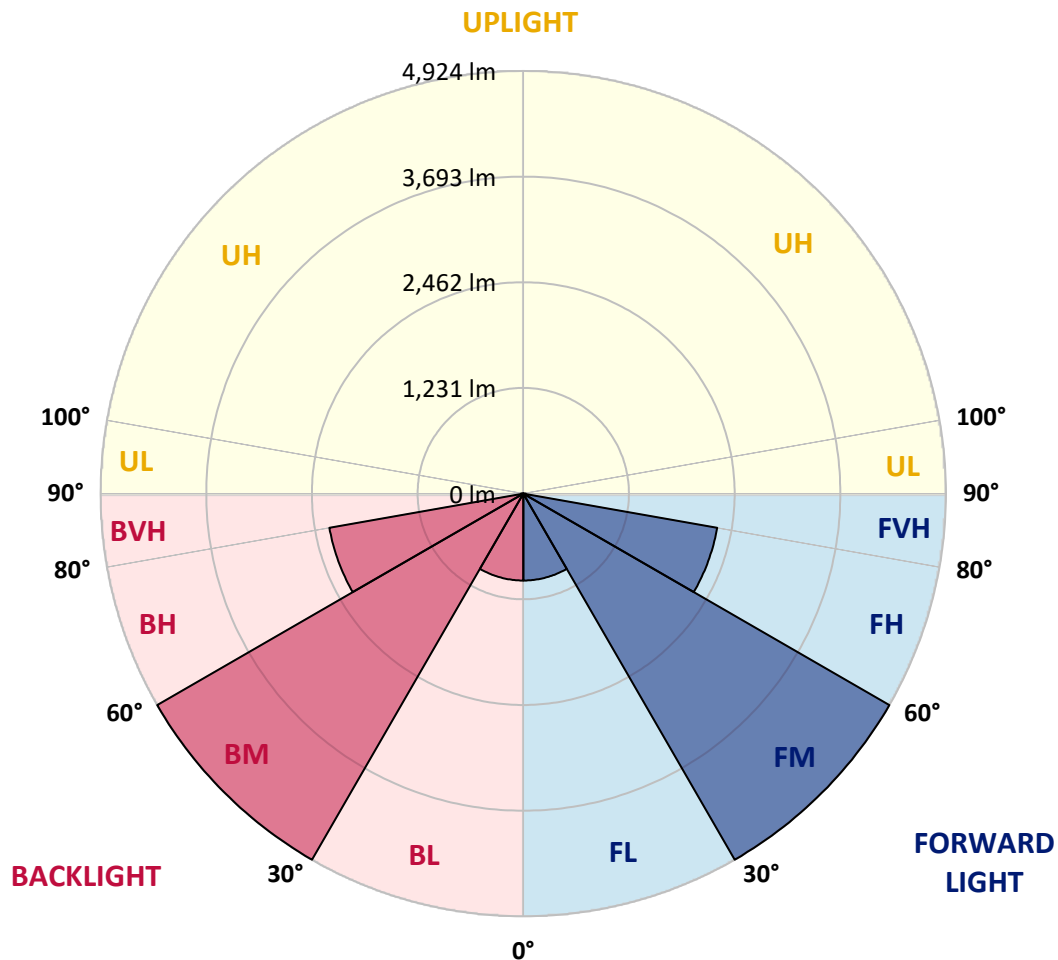
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.0	6.1			
FM	(30°-60°)	4923.8	29.8			
FH	(60°-80°)	2293.3	13.9			G2/5000
FVH	(80°-90°)	28.0	0.2			G1/100
BL	(0°-30°)	1012.0	6.1	B3/2500		
BM	(30°-60°)	4923.8	29.8	B3/5000		
BH	(60°-80°)	2293.3	13.9	B3/2500		G2/5000
BVH	(80°-90°)	28.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0
2.5°	2003.9	2008.2	2004.7	2003.9	2003.0	2003.0	2003.0	2003.9	2007.4	2010.0	2008.2
5°	2029.2	2032.7	2031.0	2030.1	2029.2	2030.1	2028.4	2027.5	2030.1	2030.1	2029.2
7.5°	2060.7	2065.1	2063.3	2065.1	2066.0	2066.8	2062.5	2059.0	2058.1	2060.7	2059.0
10°	2103.6	2107.1	2108.0	2108.8	2110.6	2109.7	2104.5	2098.3	2097.5	2096.6	2095.7
12.5°	2151.7	2154.3	2155.2	2158.7	2161.3	2162.2	2156.1	2150.8	2142.1	2143.8	2140.3
15°	2205.9	2211.2	2210.3	2215.5	2222.5	2224.3	2218.2	2209.4	2201.5	2197.2	2194.5
17.5°	2272.4	2275.9	2274.1	2279.4	2288.1	2292.5	2287.3	2275.9	2268.0	2258.4	2253.1
20°	2351.1	2357.2	2359.0	2359.0	2366.9	2371.2	2363.4	2359.9	2347.6	2340.6	2336.2
22.5°	2440.3	2443.0	2448.2	2453.4	2461.3	2459.6	2456.9	2451.7	2440.3	2434.2	2427.2
25°	2540.9	2543.5	2556.7	2568.0	2570.7	2568.9	2565.4	2562.8	2552.3	2538.3	2533.0
27.5°	2658.1	2663.4	2680.9	2691.4	2691.4	2692.2	2685.2	2694.0	2671.2	2654.6	2652.9
30°	2805.1	2808.6	2823.4	2833.9	2828.7	2824.3	2822.6	2831.3	2806.8	2777.1	2770.1
32.5°	2950.3	2962.5	2975.6	2998.4	2980.0	2972.1	2970.4	2976.5	2948.5	2915.3	2905.7
35°	3105.9	3114.7	3139.2	3158.4	3141.8	3123.4	3131.3	3150.6	3117.3	3072.7	3071.0
37.5°	3278.3	3286.1	3317.6	3337.7	3325.5	3294.0	3307.1	3329.9	3296.6	3241.5	3230.2
40°	3457.6	3474.2	3513.5	3534.5	3514.4	3472.4	3496.9	3521.4	3491.7	3427.8	3402.5
42.5°	3658.7	3685.0	3741.8	3752.3	3713.8	3657.0	3699.8	3739.2	3718.2	3644.7	3635.1
45°	3894.0	3909.8	3979.7	4002.5	3949.1	3878.3	3931.6	4003.4	3987.6	3902.8	3884.4
47.5°	4157.3	4172.2	4244.8	4278.9	4211.5	4116.2	4212.4	4306.0	4296.4	4205.4	4196.7
50°	4468.7	4472.2	4572.8	4611.3	4543.9	4461.7	4547.4	4663.7	4625.2	4508.9	4507.2
52.5°	4809.8	4814.2	4941.0	5015.4	4977.7	4885.0	4986.5	5057.3	4959.4	4807.2	4795.8
55°	5105.4	5127.3	5300.5	5498.2	5549.8	5482.4	5513.0	5479.8	5238.4	5025.0	4991.7
57.5°	5226.1	5269.0	5532.3	5901.4	6237.3	6337.0	6100.8	5784.2	5349.5	5047.7	5015.4
60°	4931.4	4977.7	5386.2	6086.8	6944.0	7377.0	6713.1	5835.8	5096.7	4672.5	4621.8
62.5°	3949.1	3962.3	4563.1	5650.4	7356.0	8477.3	6971.1	5395.8	4361.1	3784.7	3764.6
64°	2841.8	2976.5	3613.3	4954.1	7175.8	8896.3	6822.4	4779.2	3542.4	2959.0	2864.5
65°	2125.4	2162.2	2912.6	4230.8	6858.3	8864.8	6533.8	4189.7	2933.6	2264.5	2159.6
67.5°	802.9	807.3	1075.0	2108.8	4882.4	7627.1	4986.5	2279.4	1235.9	893.9	861.5
70°	333.2	339.4	394.5	709.4	2098.3	4897.3	2404.5	822.2	452.2	366.5	361.2
72.5°	244.0	247.5	264.2	314.9	645.5	2010.9	790.7	349.0	265.0	237.0	234.4
75°	191.6	193.3	205.5	231.8	300.9	557.2	328.9	239.7	202.0	181.9	180.2
77.5°	146.1	150.4	159.2	176.7	202.0	264.2	217.8	179.3	155.7	139.1	136.4
80°	100.6	105.8	122.5	129.5	135.6	171.4	148.7	135.6	121.6	101.5	95.3
82.5°	62.1	65.6	82.2	88.3	85.7	96.2	95.3	97.1	86.6	63.0	58.6
85°	32.4	34.1	44.6	46.4	42.9	39.4	49.0	56.9	53.4	35.9	35.0
87.5°	7.0	7.9	9.6	8.7	9.6	9.6	12.2	18.4	19.2	12.2	11.4
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)