

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: P647872

Luminaire Tested: **GALN-SA4A-835-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12412.1 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

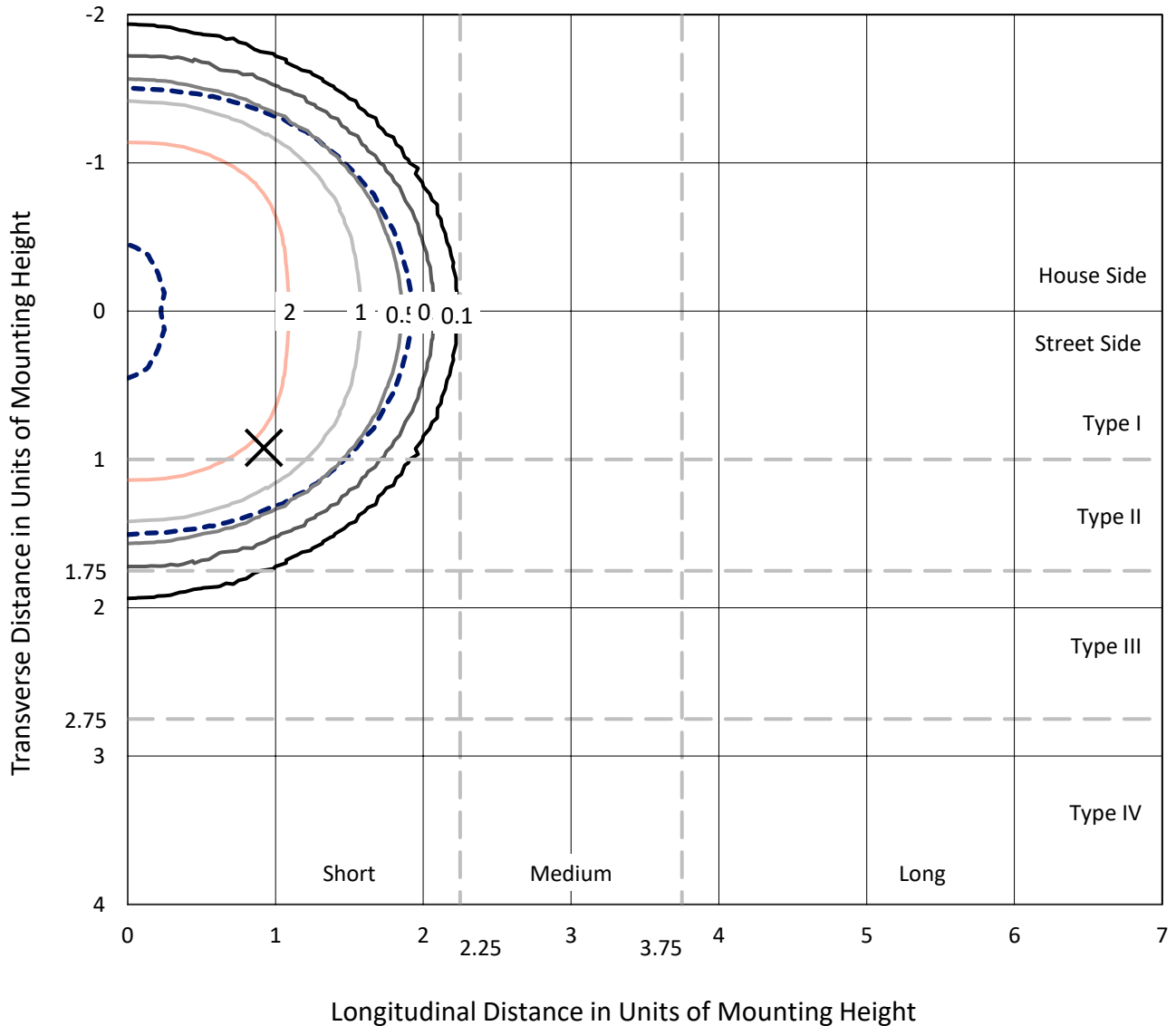
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

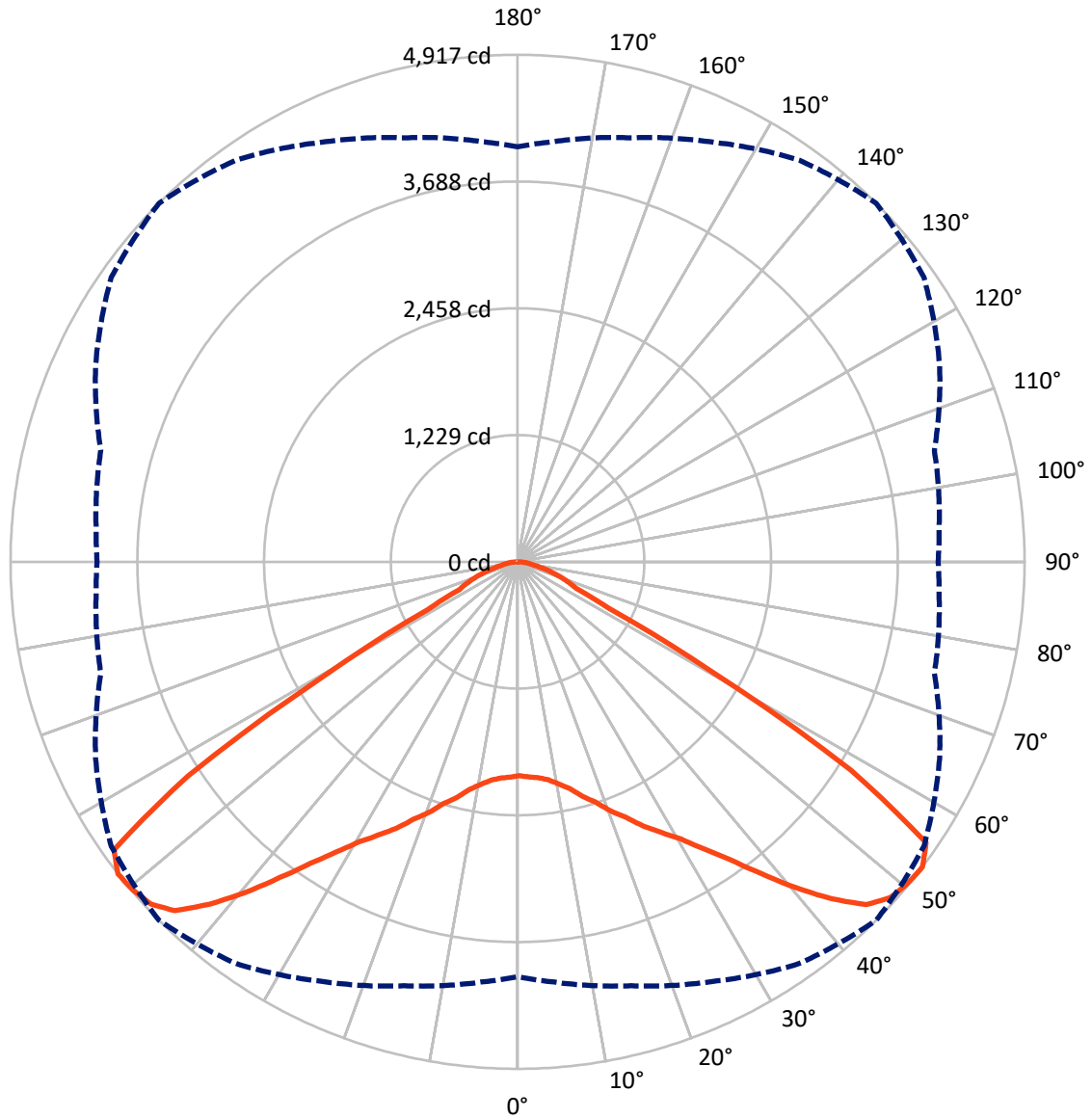
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6206.1	0.0	6206.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6206.1	0.0	6206.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12412.1	0.0	12412.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	1.6
10°-20°	669.8	5.4
20°-30°	1275.3	10.3
30°-40°	2189.7	17.6
40°-50°	3365.7	27.1
50°-60°	3417.8	27.5
60°-70°	952.5	7.7
70°-80°	281.0	2.3
80°-90°	56.6	0.5
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°	12412.1	100.0
0°-180°	12412.1	100.0

Coefficient of Utilization



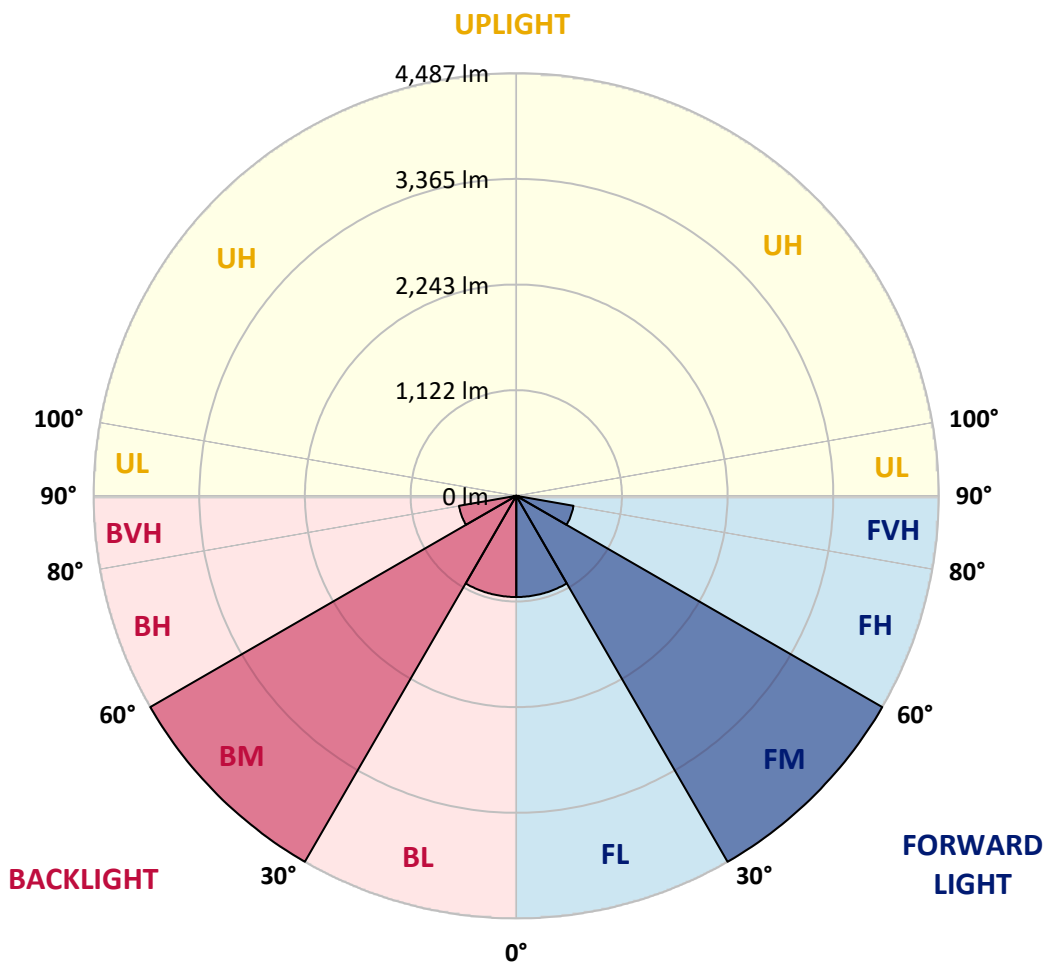
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.5	8.7			
FM (30°-60°)	4486.6	36.1			
FH (60°-80°)	616.7	5.0			G0/660
FVH (80°-90°)	28.3	0.2			G1/100
BL (0°-30°)	1074.5	8.7	B3/2500		
BM (30°-60°)	4486.6	36.1	B3/5000		
BH (60°-80°)	616.7	5.0	B2/1000		G0/660
BVH (80°-90°)	28.3	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9
2.5°	2079.5	2057.9	2065.6	2070.3	2090.2	2088.7	2084.1	2090.2	2096.4	2098.0	2094.8
5°	2077.9	2062.5	2068.7	2073.3	2093.4	2104.1	2101.0	2127.3	2145.7	2141.1	2164.2
7.5°	2065.6	2074.9	2067.1	2090.2	2107.2	2133.4	2161.1	2185.7	2208.8	2235.1	2239.7
10°	2093.4	2093.4	2107.2	2125.7	2170.3	2190.4	2230.5	2265.8	2310.6	2341.3	2329.0
12.5°	2122.6	2127.3	2127.3	2174.9	2212.0	2256.6	2293.6	2341.3	2404.5	2441.5	2460.0
15°	2151.8	2155.0	2170.3	2235.1	2290.5	2361.4	2395.3	2438.3	2473.8	2543.1	2544.7
17.5°	2178.1	2195.0	2241.2	2313.6	2382.9	2450.7	2504.6	2549.3	2580.1	2607.8	2601.7
20°	2276.7	2288.9	2336.7	2409.1	2512.3	2578.6	2597.1	2604.7	2624.8	2680.2	2663.3
22.5°	2372.1	2376.7	2421.4	2532.3	2604.7	2692.5	2712.5	2707.9	2715.6	2729.5	2754.1
25°	2470.8	2478.4	2540.1	2634.0	2735.6	2840.4	2857.3	2821.9	2811.1	2826.6	2828.1
27.5°	2597.1	2598.5	2677.2	2758.7	2874.3	2972.9	2999.0	2971.3	2920.5	2932.8	2952.8
30°	2757.3	2746.5	2825.0	2942.0	3063.7	3119.2	3163.9	3150.0	3094.6	3083.8	3066.9
32.5°	2942.0	2945.2	3016.0	3143.8	3223.9	3316.4	3364.1	3341.0	3305.6	3287.1	3297.9
35°	3202.4	3216.3	3264.0	3370.3	3499.7	3545.9	3621.4	3572.0	3479.7	3502.8	3522.8
37.5°	3416.5	3456.6	3545.9	3672.2	3749.2	3834.0	3861.7	3795.4	3727.6	3699.9	3766.2
40°	3744.6	3732.2	3830.8	3957.1	4071.1	4155.9	4120.5	4054.2	3886.3	3887.8	3906.3
42.5°	4026.5	4032.6	4108.1	4259.1	4414.6	4467.0	4354.6	4192.8	4006.5	3986.4	4026.5
45°	4263.7	4288.3	4331.5	4533.3	4685.7	4742.7	4534.8	4343.8	4094.2	4011.1	4077.3
47.5°	4348.4	4388.5	4482.4	4667.2	4818.2	4864.4	4698.1	4423.9	4175.9	4040.4	4075.7
50°	4360.8	4346.8	4500.9	4670.4	4802.8	4902.9	4756.6	4482.4	4155.9	4085.0	4074.2
52.5°	4023.4	4091.2	4256.0	4488.5	4756.6	4916.8	4809.0	4514.8	4183.6	4103.5	4077.3
55°	3256.3	3176.2	3476.6	3867.8	4360.8	4805.9	4790.5	4531.7	4200.6	4134.3	4098.8
57.5°	1817.6	1840.8	2010.1	2435.3	3071.5	3810.8	4259.1	4353.0	4192.8	4154.3	4172.8
60°	841.0	848.7	921.1	1119.8	1514.2	2161.1	2751.1	3350.2	3626.0	3681.4	3681.4
62.5°	626.9	623.8	642.3	677.8	760.9	993.5	1326.2	1802.2	2181.1	2446.1	2515.4
65°	566.8	565.3	574.6	586.9	593.0	625.4	699.3	845.6	968.9	1039.7	1027.4
67.5°	496.0	494.5	497.5	505.3	516.0	533.0	551.5	582.2	625.4	622.3	614.6
70°	400.5	400.5	405.1	411.3	423.6	443.6	465.2	486.7	523.7	531.4	529.9
72.5°	295.7	291.1	300.4	312.7	325.0	349.7	372.8	392.8	419.0	426.7	423.6
75°	187.9	191.0	197.2	211.0	232.6	249.5	274.2	291.1	308.0	314.2	315.8
77.5°	104.8	107.8	118.6	135.5	157.1	175.6	197.2	211.0	221.8	223.3	224.9
80°	63.2	64.7	75.5	90.9	109.4	129.4	146.3	160.2	169.4	164.8	163.3
82.5°	38.5	40.0	49.3	63.2	78.5	94.0	112.4	124.7	134.0	127.9	121.7
85°	20.0	21.5	29.3	38.5	50.8	58.6	58.6	52.4	50.8	47.8	46.2
87.5°	6.2	6.2	7.7	9.2	7.7	9.2	10.8	12.3	12.3	13.9	12.3
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)