

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: P454284

Luminaire Tested: **GALN-SA5B-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21613 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

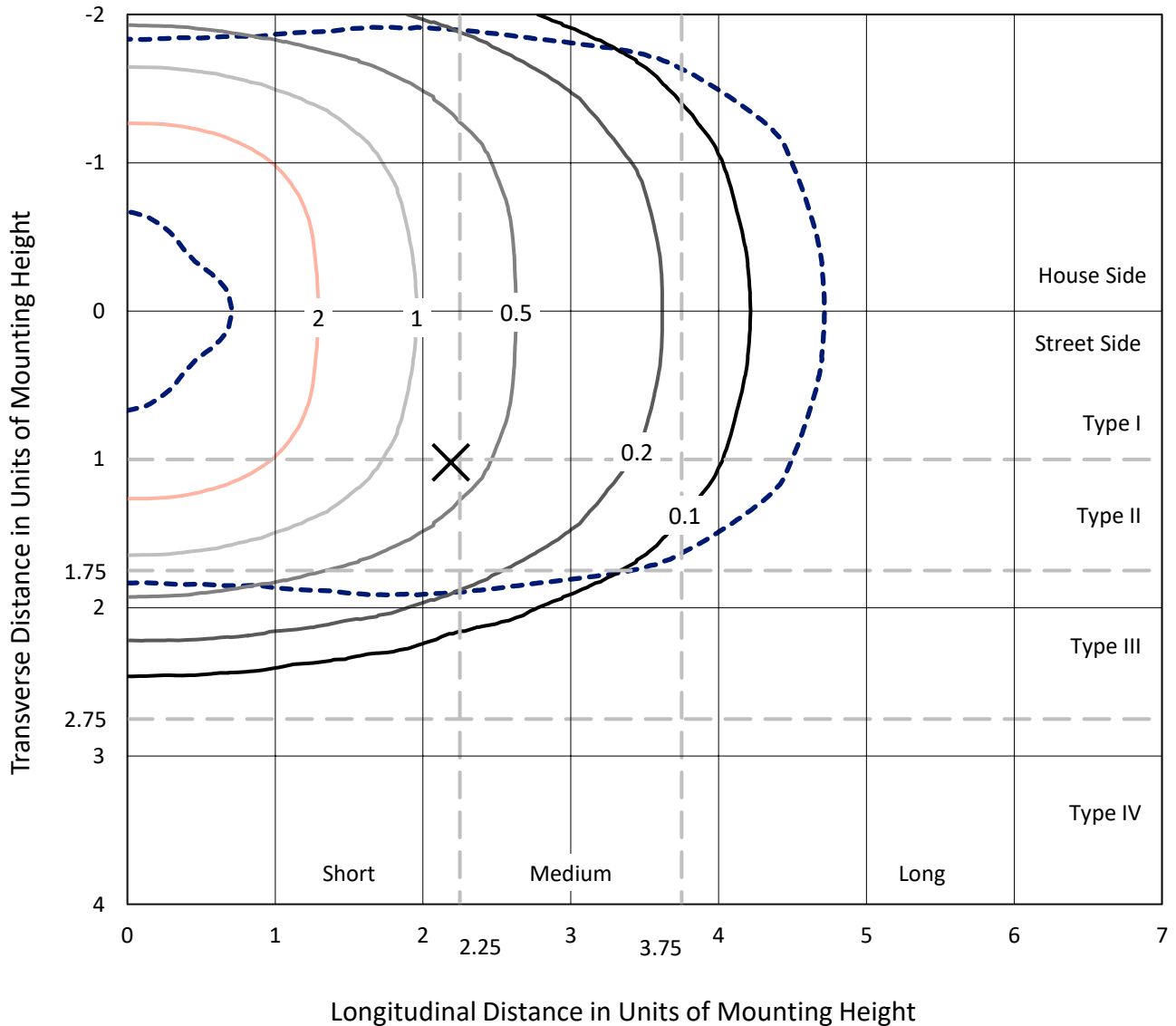
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

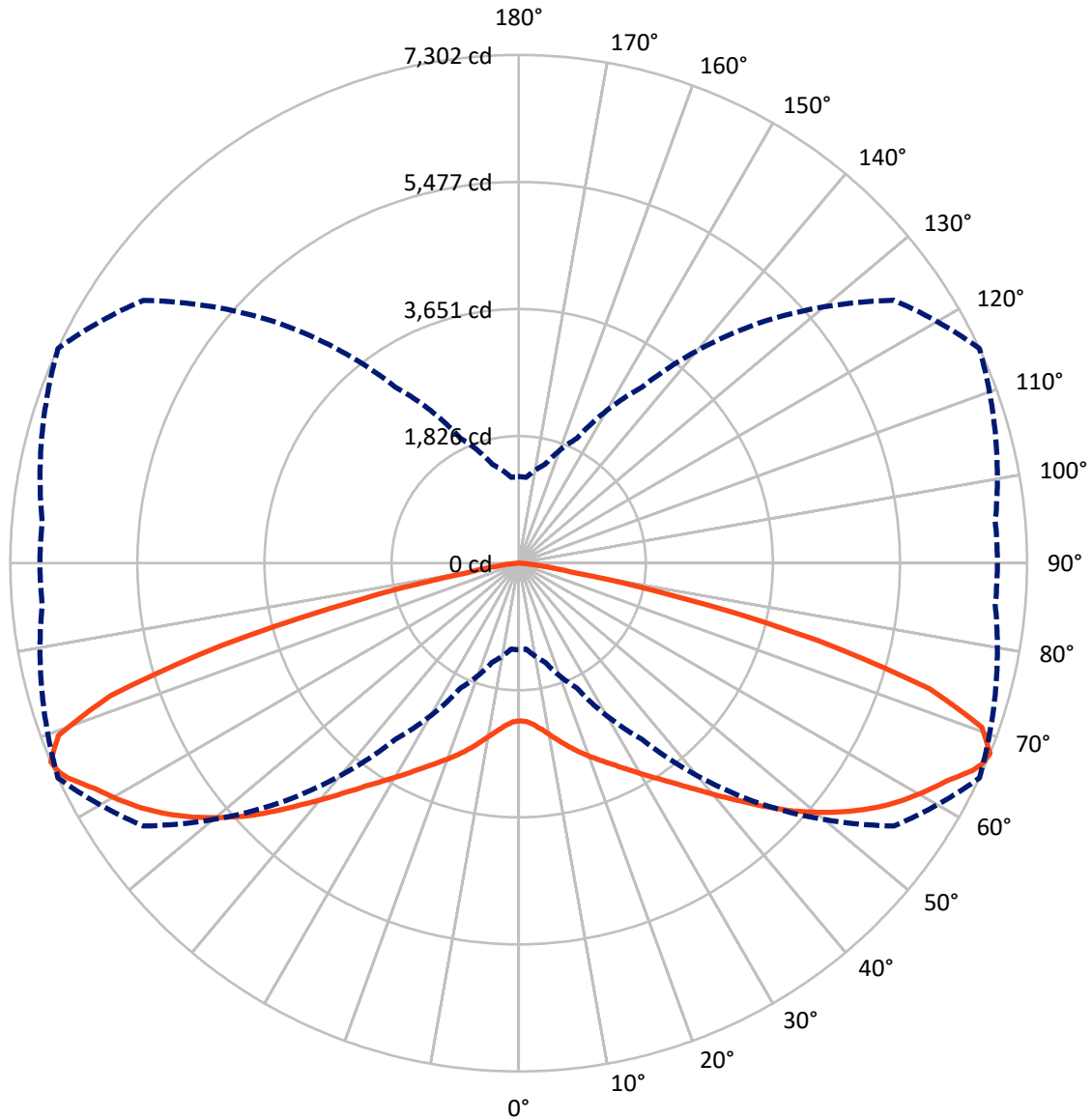
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10806.5	0.0	10806.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10806.5	0.0	10806.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21613.0	0.0	21613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	1.0
10°-20°	747.3	3.5
20°-30°	1461.7	6.8
30°-40°	2486.2	11.5
40°-50°	3934.8	18.2
50°-60°	5217.5	24.1
60°-70°	4921.7	22.8
70°-80°	2433.0	11.3
80°-90°	187.5	0.9
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°	21613.0	100.0
0°-180°	21613.0	100.0

Coefficient of Utilization



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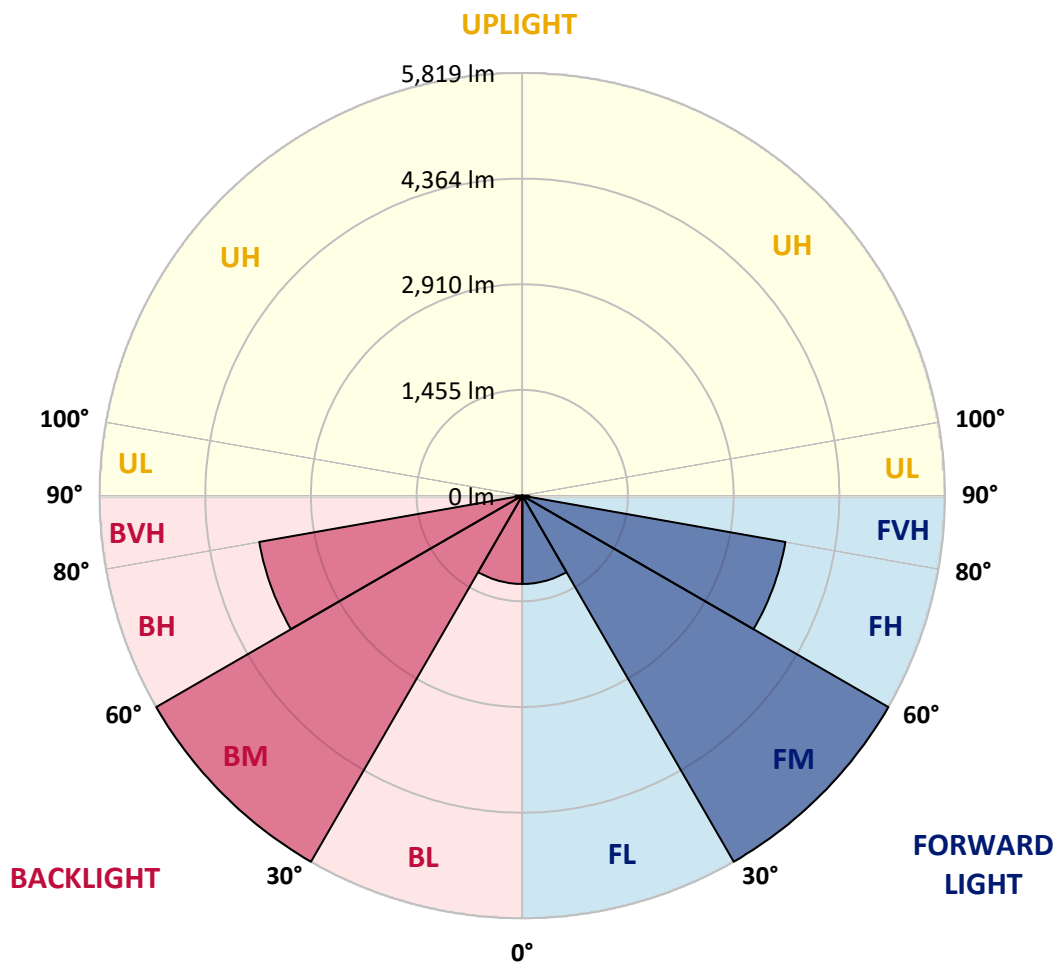
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1216.1	5.6			
FM	(30°-60°)	5819.2	26.9			
FH	(60°-80°)	3677.4	17.0			G2/5000
FVH	(80°-90°)	93.8	0.4			G1/100
BL	(0°-30°)	1216.1	5.6	B3/2500		
BM	(30°-60°)	5819.2	26.9	B4/8500		
BH	(60°-80°)	3677.4	17.0	B4/5000		G4/5000
BVH	(80°-90°)	93.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8
2.5°	2252.2	2254.5	2256.8	2260.3	2264.9	2271.9	2276.5	2280.0	2289.2	2290.4	2289.2
5°	2244.1	2246.4	2252.2	2262.6	2277.7	2298.5	2314.7	2334.4	2349.5	2359.9	2357.6
7.5°	2242.9	2247.6	2256.8	2278.8	2307.8	2343.7	2380.7	2414.3	2443.3	2466.4	2462.9
10°	2261.5	2267.2	2282.3	2314.7	2359.9	2412.0	2464.1	2513.9	2555.6	2585.7	2596.1
12.5°	2292.7	2297.4	2325.1	2373.8	2438.6	2503.5	2562.5	2623.9	2681.8	2732.7	2732.7
15°	2347.1	2355.2	2390.0	2460.6	2540.5	2615.8	2676.0	2740.8	2803.4	2861.3	2878.6
17.5°	2422.4	2434.0	2486.1	2576.4	2678.3	2747.8	2804.5	2857.8	2912.2	2967.8	2975.9
20°	2525.5	2537.0	2606.5	2715.4	2835.8	2919.2	2957.4	2970.1	2996.7	3050.0	3057.0
22.5°	2665.6	2677.2	2754.7	2877.5	3011.8	3102.1	3118.3	3088.2	3081.3	3123.0	3127.6
25°	2824.2	2834.6	2923.8	3055.8	3194.8	3293.2	3288.5	3214.4	3172.8	3198.2	3205.2
27.5°	3002.5	3017.6	3107.9	3244.5	3395.1	3481.9	3468.0	3360.3	3271.2	3266.5	3268.9
30°	3230.7	3246.9	3332.5	3463.4	3611.6	3691.5	3662.6	3517.8	3380.0	3333.7	3333.7
32.5°	3471.5	3512.0	3598.9	3735.5	3851.3	3909.2	3865.2	3691.5	3508.6	3443.7	3440.2
35°	3785.3	3807.3	3893.0	4026.2	4113.0	4158.2	4073.6	3887.2	3676.5	3600.0	3589.6
37.5°	4092.2	4110.7	4210.3	4337.6	4443.0	4440.7	4326.1	4119.9	3884.9	3799.2	3792.3
40°	4406.0	4425.6	4539.1	4656.1	4761.4	4752.2	4613.2	4382.8	4132.7	4036.6	4055.1
42.5°	4678.1	4700.1	4828.6	4995.3	5090.3	5088.0	4927.0	4667.7	4407.1	4321.4	4337.6
45°	4925.9	4945.6	5094.9	5286.0	5424.9	5442.3	5266.3	4991.9	4724.4	4614.4	4619.0
47.5°	5100.7	5137.8	5294.1	5512.9	5701.7	5763.1	5590.5	5321.9	5013.9	4899.2	4906.2
50°	5233.9	5257.0	5427.3	5676.2	5914.8	6042.1	5903.2	5627.6	5303.4	5181.8	5198.0
52.5°	5250.1	5277.9	5463.2	5750.3	6056.0	6249.4	6181.1	5926.3	5598.6	5473.6	5508.3
55°	5118.1	5134.3	5355.5	5704.0	6111.6	6403.4	6420.8	6204.2	5880.0	5785.1	5808.2
57.5°	4741.8	4783.4	5063.7	5487.5	6035.2	6485.6	6600.3	6456.7	6164.9	6071.1	6108.1
60°	4124.6	4166.3	4447.6	4984.9	5746.9	6447.4	6748.5	6680.2	6423.1	6347.8	6367.5
62.5°	3231.8	3228.3	3576.9	4235.7	5173.7	6259.8	6858.5	6895.5	6677.8	6582.9	6613.0
65°	2094.7	2105.1	2442.1	3151.9	4308.7	5782.7	6882.8	7170.0	6928.0	6784.4	6806.4
66°	1684.8	1716.1	2002.1	2656.3	3867.5	5470.1	6809.8	7251.0	7004.4	6830.7	6841.1
67.5°	1243.6	1237.8	1472.9	1977.8	3088.2	4876.1	6581.7	7302.0	7091.2	6872.4	6877.0
70°	709.8	708.7	792.0	1086.1	1815.6	3433.3	5547.7	7057.6	7267.2	7022.9	7010.2
72.5°	518.8	515.3	526.9	599.8	885.8	1733.4	3827.0	6168.3	7176.9	6998.6	6962.7
75°	435.4	433.1	430.8	440.0	496.8	785.1	2031.0	4437.2	6227.4	6569.0	6531.9
77.5°	355.5	355.5	356.6	354.3	356.6	413.4	841.8	2378.4	3792.3	4233.4	4336.5
80°	277.9	276.7	296.4	288.3	269.8	265.2	372.9	765.4	1258.7	1251.7	1032.9
82.5°	205.0	191.1	225.8	220.0	199.2	169.1	217.7	326.5	420.3	273.3	202.6
85°	129.7	128.5	159.8	145.9	121.6	79.9	104.2	140.1	173.7	105.4	85.7
87.5°	23.2	22.0	50.9	37.1	37.1	23.2	28.9	38.2	56.7	39.4	28.9
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)