

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: P453135

Luminaire Tested: **GALN-SA4A-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13276 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

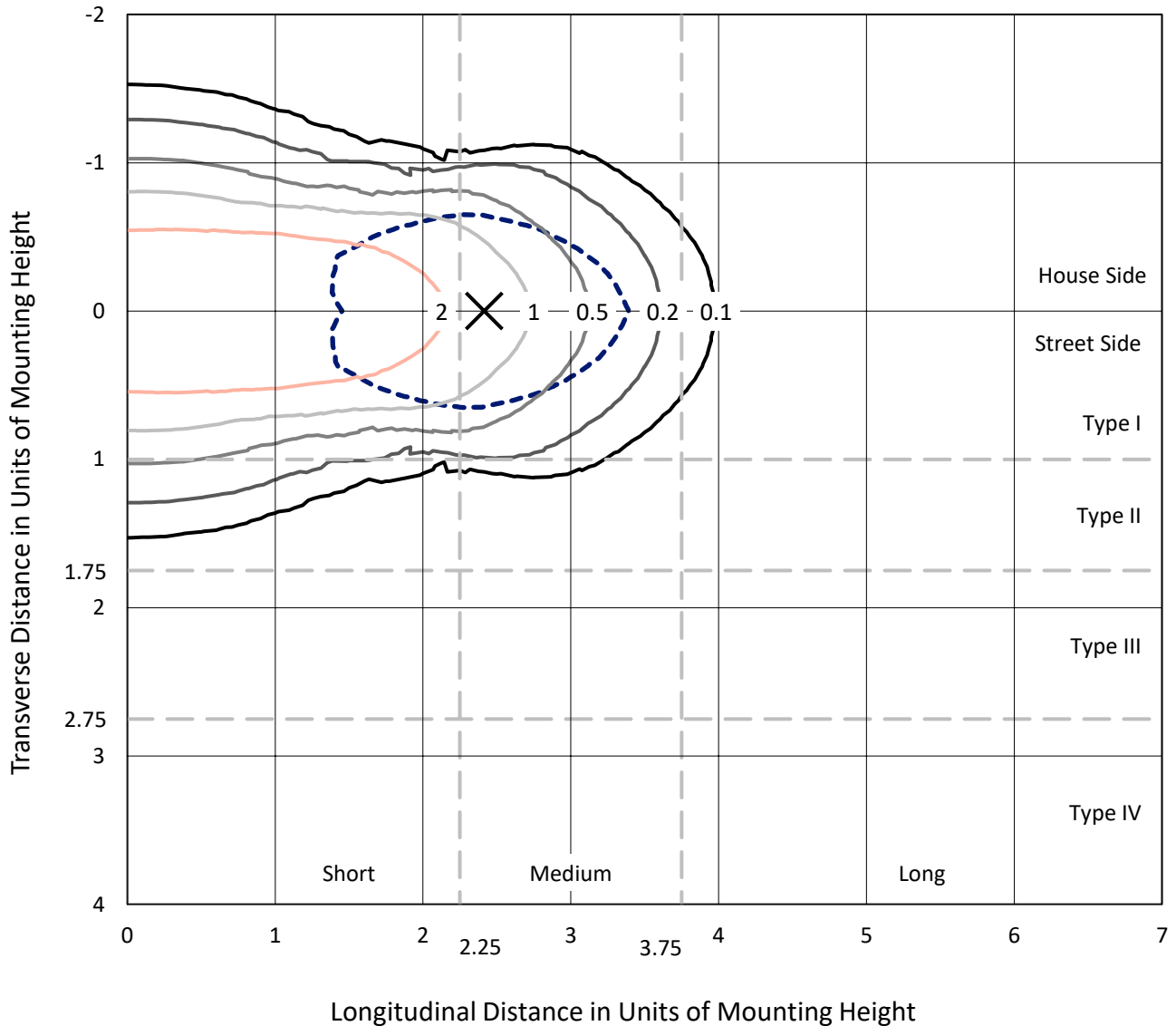
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

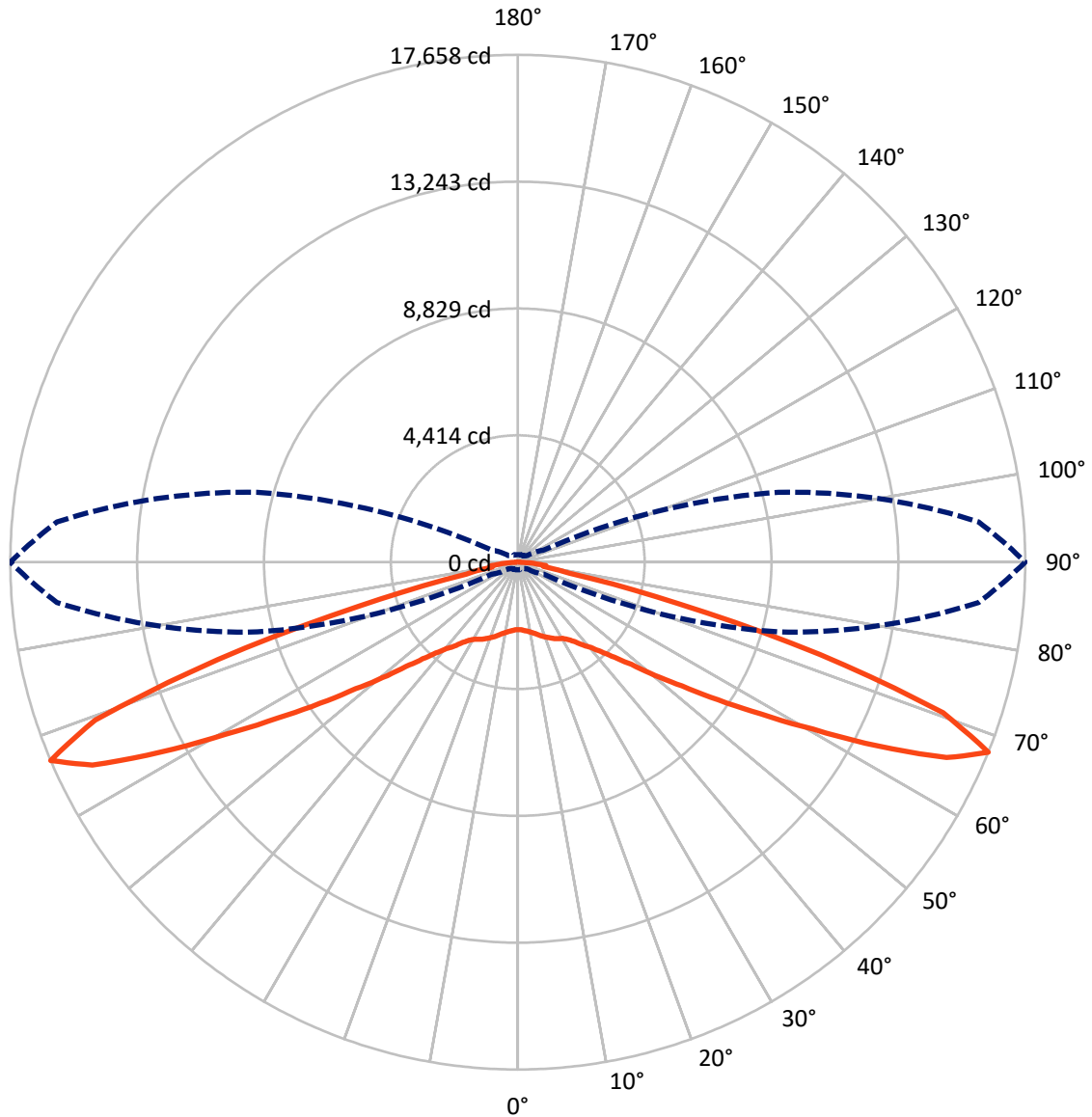
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6638.0	0.0	6638.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6638.0	0.0	6638.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13276.0	0.0	13276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	1.8
10°-20°	749.7	5.6
20°-30°	1254.8	9.5
30°-40°	1699.9	12.8
40°-50°	2153.2	16.2
50°-60°	2690.0	20.3
60°-70°	3161.9	23.8
70°-80°	1209.6	9.1
80°-90°	122.5	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°	13276.0	100.0
0°-180°	13276.0	100.0

Coefficient of Utilization



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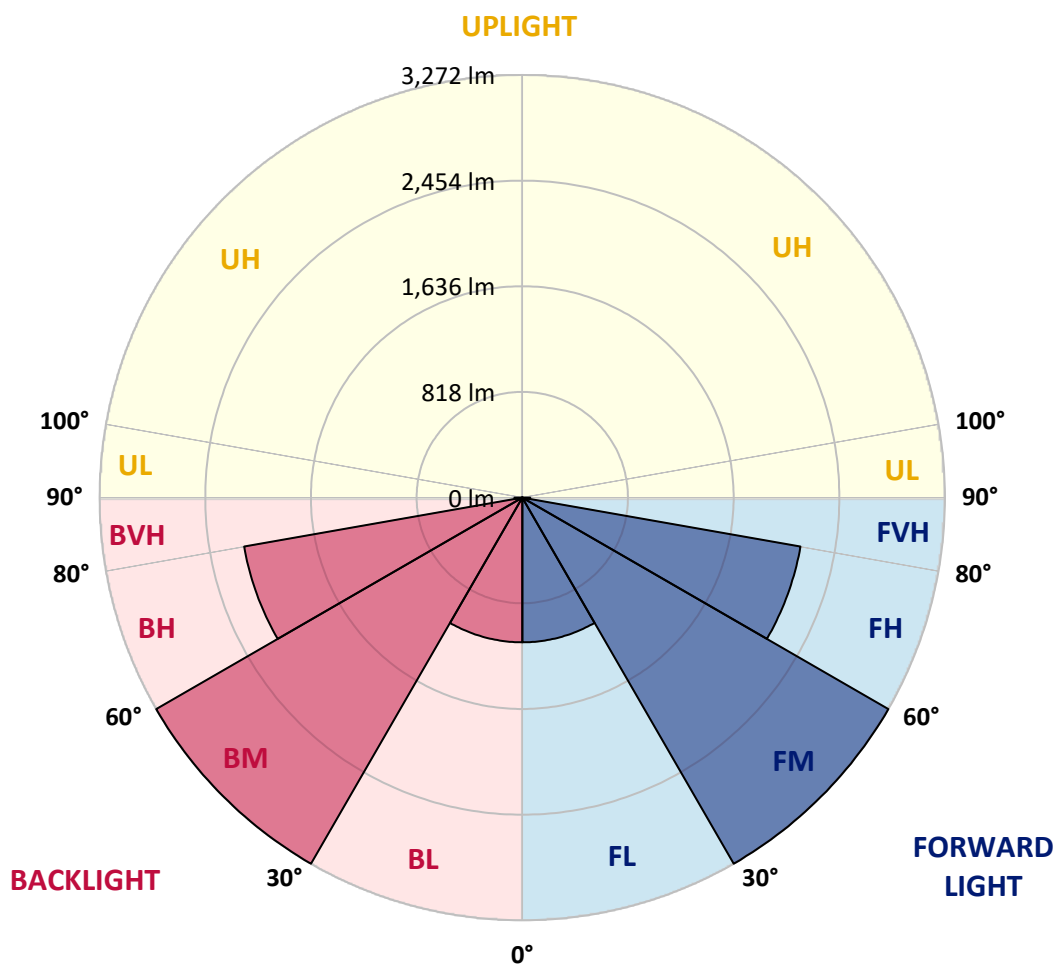
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1119.4	8.4			
FM	(30°-60°)	3271.6	24.6			
FH	(60°-80°)	2185.7	16.5			G2/5000
FVH	(80°-90°)	61.3	0.5			G1/100
BL	(0°-30°)	1119.4	8.4	B3/2500		
BM	(30°-60°)	3271.6	24.6	B3/5000		
BH	(60°-80°)	2185.7	16.5	B3/2500		G3/2500
BVH	(80°-90°)	61.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2350.3	2350.3	2350.3	2350.3	2350.3	2350.3	2350.3	2350.3	2350.3	2350.3	2350.3
2.5°	2380.4	2378.9	2379.7	2378.9	2381.1	2379.7	2370.8	2363.5	2357.6	2358.4	2356.1
5°	2431.1	2431.9	2432.6	2428.9	2434.1	2431.1	2417.2	2405.4	2393.6	2389.2	2387.8
7.5°	2473.0	2476.7	2478.9	2482.6	2491.4	2491.4	2484.1	2467.2	2441.4	2426.7	2426.0
10°	2514.9	2517.9	2524.5	2536.3	2551.0	2564.9	2562.0	2539.2	2506.1	2481.1	2475.2
12.5°	2529.6	2533.3	2555.4	2589.2	2622.3	2649.5	2649.5	2631.1	2588.5	2550.2	2539.2
15°	2478.2	2484.8	2524.5	2596.5	2683.3	2742.8	2756.1	2730.3	2684.8	2625.9	2612.7
17.5°	2376.0	2392.2	2450.2	2556.8	2700.9	2824.4	2862.7	2850.2	2791.4	2716.4	2700.9
20°	2266.5	2284.1	2345.9	2487.0	2686.2	2872.2	2983.2	2986.2	2913.4	2804.6	2781.8
22.5°	2145.9	2159.1	2238.5	2403.9	2642.1	2883.2	3086.9	3137.6	3039.1	2892.8	2860.5
25°	2010.6	2025.3	2108.4	2287.0	2559.0	2870.7	3181.7	3293.5	3170.7	2986.9	2945.7
27.5°	1881.2	1887.1	1976.1	2157.7	2449.5	2838.4	3251.6	3436.8	3316.2	3064.8	3012.6
30°	1757.0	1771.0	1849.6	2029.0	2323.8	2775.2	3311.8	3600.0	3472.8	3146.4	3079.5
32.5°	1625.4	1642.3	1727.6	1909.2	2198.1	2680.3	3348.6	3778.7	3691.2	3278.8	3207.4
35°	1499.0	1510.0	1596.0	1772.4	2075.3	2570.1	3355.2	3980.1	3972.7	3479.5	3384.6
37.5°	1369.6	1385.8	1472.5	1641.6	1945.2	2453.2	3322.1	4194.0	4312.4	3758.1	3655.9
40°	1245.3	1259.3	1344.6	1515.1	1797.4	2310.6	3243.5	4389.6	4708.6	4044.8	3900.0
42.5°	1110.1	1113.7	1207.1	1380.6	1652.6	2145.2	3130.3	4563.8	5150.4	4429.3	4249.2
45°	956.4	966.0	1052.7	1223.3	1486.5	1959.9	2976.6	4707.9	5710.6	4962.2	4716.7
47.5°	802.8	810.9	890.3	1058.6	1304.9	1747.4	2739.9	4834.3	6285.5	5639.3	5317.3
50°	652.8	657.2	721.9	871.1	1100.5	1524.0	2446.6	4874.8	6935.4	6597.9	6187.0
52.5°	516.1	522.7	571.9	688.8	882.2	1260.0	2129.7	4774.8	7694.0	7734.5	7155.2
55°	418.3	420.5	457.3	543.3	689.6	983.6	1747.4	4496.2	8510.1	9190.8	8452.0
57.5°	360.2	361.7	382.3	430.1	530.8	741.8	1355.6	3969.1	9243.0	10897.1	9947.3
60°	327.1	327.9	339.6	367.6	420.5	569.0	971.1	3225.1	9966.4	12796.0	11805.7
62.5°	306.6	306.6	314.6	330.1	355.8	436.7	703.5	2326.7	10461.9	14722.8	14096.4
65°	286.7	286.7	292.6	303.6	317.6	357.3	519.7	1517.3	10449.4	16126.2	16400.4
67.5°	263.9	263.9	268.3	279.4	287.4	307.3	401.4	993.9	9386.4	16095.3	17657.5
70°	236.7	236.7	242.6	252.2	258.8	271.3	316.8	680.0	6895.7	13742.8	15703.5
72.5°	209.5	210.3	213.9	223.5	228.6	236.0	263.2	476.4	4230.0	9357.7	10980.2
75°	179.4	180.8	184.5	194.1	198.5	201.4	222.0	339.6	2140.0	5045.3	5744.4
77.5°	144.8	147.8	150.0	160.3	163.2	167.6	183.1	245.5	939.5	1812.9	1829.0
80°	105.9	109.5	116.2	125.7	127.9	130.9	139.7	174.2	425.7	827.8	899.1
82.5°	77.9	83.1	75.0	87.5	87.5	83.8	98.5	116.9	195.5	819.7	980.7
85°	42.6	43.4	39.0	44.8	47.8	47.0	52.2	57.3	94.8	546.9	563.9
87.5°	10.3	11.0	11.8	14.0	16.9	16.9	18.4	16.2	30.9	177.2	101.5
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)