

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: P454975

Luminaire Tested: **GALN-SA6A-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20908 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

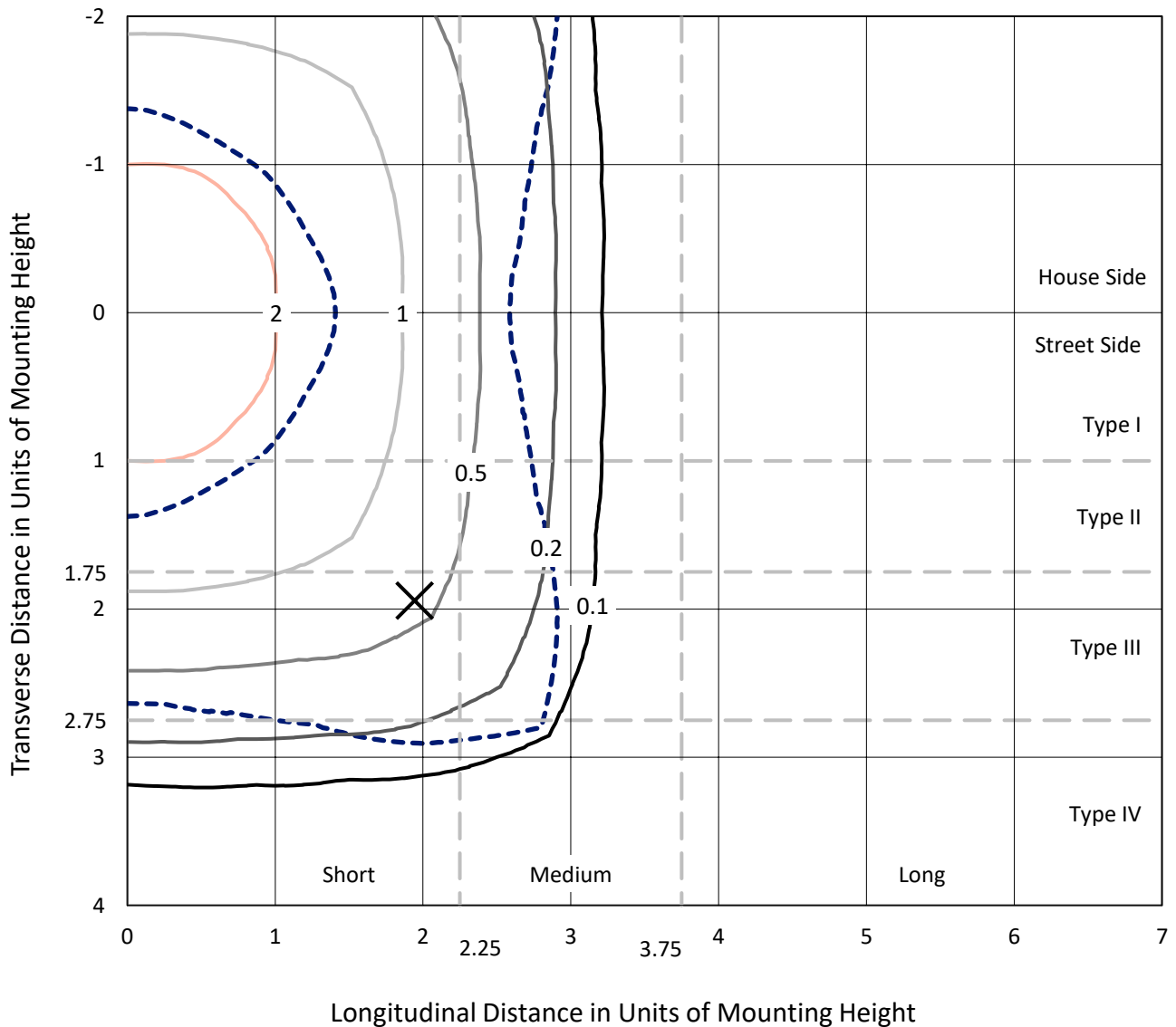
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

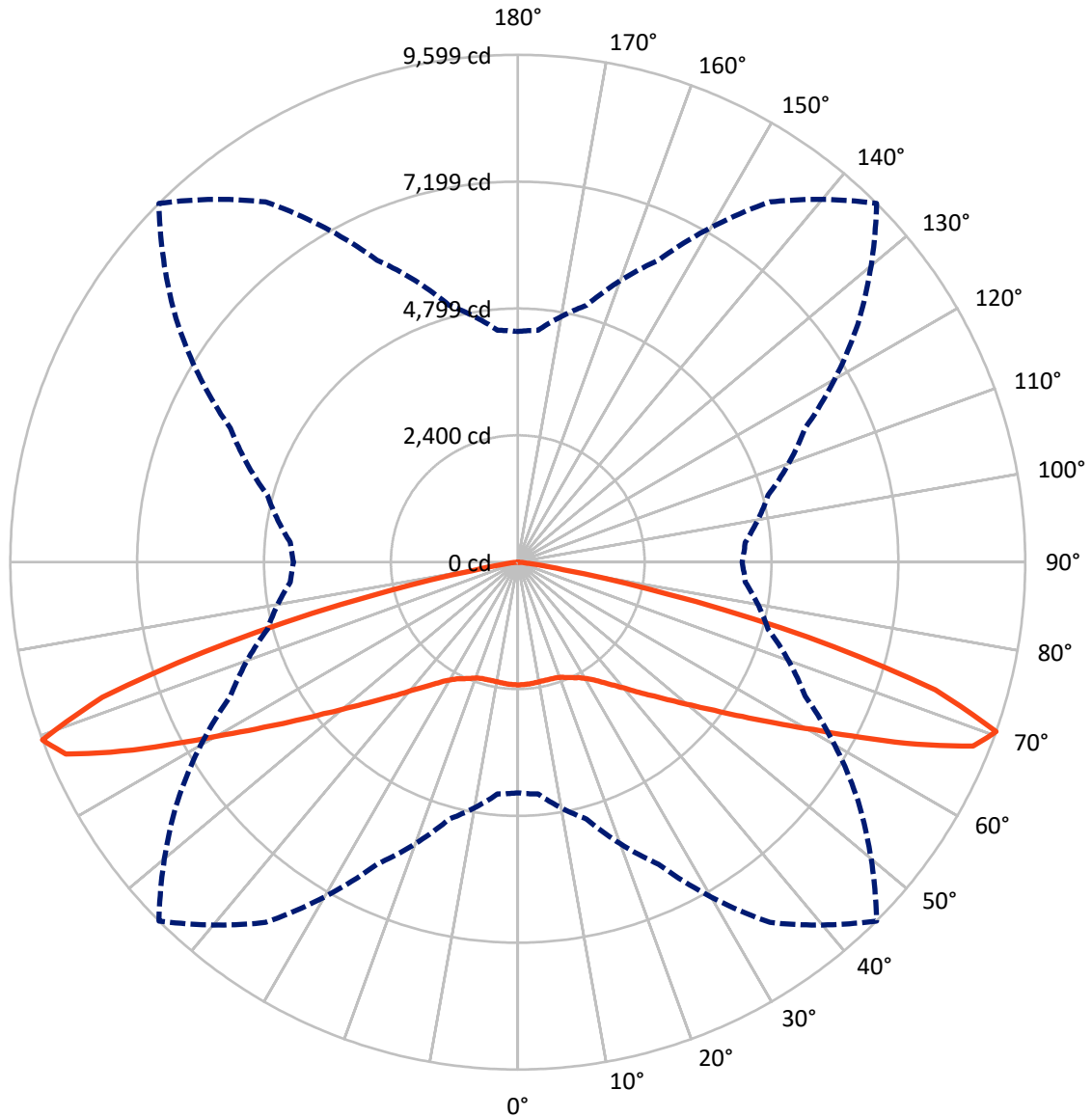
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	10454.0	0.0	10454.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10454.0	0.0	10454.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20908.0	0.0	20908.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	1.1
10°-20°	646.1	3.1
20°-30°	1105.0	5.3
30°-40°	1753.8	8.4
40°-50°	2829.4	13.5
50°-60°	4603.5	22.0
60°-70°	6673.3	31.9
70°-80°	2960.1	14.2
80°-90°	116.8	0.6
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°	20908.0	100.0
0°-180°	20908.0	100.0



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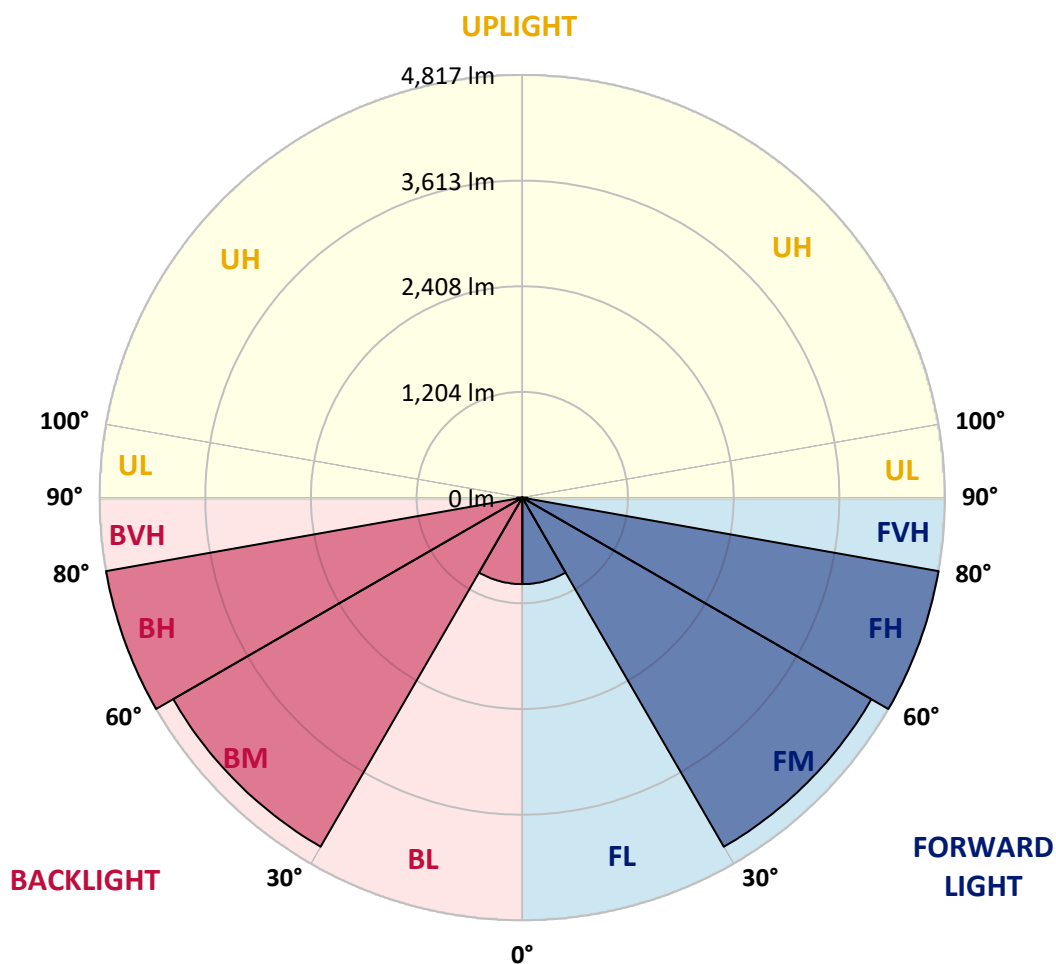
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	985.6	4.7			
FM	(30°-60°)	4593.3	22.0			
FH	(60°-80°)	4816.7	23.0			G2/5000
FVH	(80°-90°)	58.4	0.3			G1/100
BL	(0°-30°)	985.6	4.7	B2/1000		
BM	(30°-60°)	4593.3	22.0	B3/5000		
BH	(60°-80°)	4816.7	23.0	B4/5000		G2/5000
BVH	(80°-90°)	58.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7
2.5°	2321.7	2323.9	2320.6	2318.4	2317.3	2317.3	2316.2	2317.3	2323.9	2325.0	2321.7
5°	2315.1	2317.3	2316.2	2314.0	2312.9	2312.9	2311.8	2310.7	2316.2	2318.4	2317.3
7.5°	2306.3	2307.4	2306.3	2305.2	2306.3	2305.2	2301.9	2299.7	2304.1	2304.1	2303.0
10°	2290.9	2293.1	2292.0	2293.1	2295.3	2295.3	2290.9	2286.5	2287.6	2285.4	2285.4
12.5°	2272.1	2275.5	2276.6	2281.0	2286.5	2293.1	2283.2	2273.3	2271.0	2269.9	2268.8
15°	2260.0	2263.3	2267.7	2272.1	2282.1	2296.4	2282.1	2266.6	2262.2	2257.8	2255.6
17.5°	2256.7	2261.1	2267.7	2274.4	2287.6	2301.9	2289.8	2274.4	2263.3	2256.7	2254.5
20°	2265.5	2268.8	2278.8	2290.9	2309.6	2323.9	2311.8	2295.3	2278.8	2268.8	2265.5
22.5°	2283.2	2288.7	2300.8	2322.8	2349.3	2370.2	2353.7	2326.1	2299.7	2286.5	2282.1
25°	2321.7	2326.1	2340.5	2370.2	2401.1	2420.9	2403.3	2371.3	2335.0	2317.3	2311.8
27.5°	2380.1	2386.7	2402.2	2437.4	2462.8	2473.8	2461.7	2439.6	2413.2	2394.5	2390.1
30°	2462.8	2470.5	2493.6	2531.1	2547.6	2554.2	2548.7	2534.4	2515.7	2495.8	2491.4
32.5°	2574.1	2578.5	2604.9	2640.2	2655.6	2657.8	2651.2	2644.6	2613.7	2580.7	2578.5
35°	2698.6	2706.3	2738.3	2780.1	2794.5	2795.6	2782.3	2772.4	2736.1	2709.6	2709.6
37.5°	2863.9	2867.2	2898.0	2945.4	2960.8	2956.4	2949.8	2941.0	2902.4	2868.3	2869.4
40°	3057.8	3064.4	3090.9	3146.0	3146.0	3140.5	3144.9	3138.3	3099.7	3066.6	3067.7
42.5°	3288.1	3291.4	3323.4	3381.8	3377.4	3366.4	3370.8	3361.9	3337.7	3300.2	3287.0
45°	3533.8	3547.1	3602.2	3658.4	3649.5	3614.3	3631.9	3629.7	3607.7	3551.5	3554.8
47.5°	3830.3	3852.3	3905.2	3972.4	3962.5	3907.4	3927.2	3940.4	3909.6	3847.9	3836.9
50°	4164.1	4178.5	4256.7	4319.5	4310.7	4252.3	4297.5	4299.7	4222.5	4135.5	4135.5
52.5°	4520.1	4534.4	4640.2	4738.2	4743.7	4658.9	4695.3	4693.1	4567.4	4452.8	4430.8
55°	4918.9	4925.6	5062.2	5206.5	5237.4	5154.8	5159.2	5115.1	4952.0	4818.7	4806.6
57.5°	5331.1	5355.3	5506.3	5693.6	5785.1	5734.4	5711.2	5593.3	5435.7	5282.6	5274.9
60°	5787.3	5788.4	5984.5	6206.0	6391.1	6425.3	6330.5	6172.9	5969.1	5766.3	5757.5
62.5°	6103.5	6150.9	6398.8	6773.5	7105.1	7296.9	7046.7	6716.2	6315.1	5987.8	5954.7
65°	6168.5	6200.5	6578.4	7213.1	7890.8	8304.0	7725.5	7022.5	6338.2	5901.9	5879.8
67.5°	5642.9	5677.1	6186.2	7160.2	8441.8	9289.1	8166.3	6874.8	5945.9	5406.0	5363.0
70°	4364.7	4403.3	5032.4	6303.0	8319.5	9598.8	7852.2	5996.6	4903.5	4320.6	4242.4
72.5°	2320.6	2462.8	3000.5	4326.1	6752.5	8264.4	6438.5	4375.7	3162.5	2585.1	2481.5
75°	847.4	865.0	1164.7	1918.4	3928.3	5667.1	4079.3	2087.0	1200.0	926.7	879.3
77.5°	350.4	349.3	383.5	579.6	1427.0	2902.4	1592.3	612.7	382.4	353.7	349.3
80°	207.2	207.2	228.1	241.3	375.8	876.0	419.8	273.3	229.2	209.4	212.7
82.5°	92.6	98.1	144.4	152.1	181.8	240.2	202.8	174.1	149.9	103.6	93.7
85°	50.7	44.1	76.0	79.3	87.1	89.3	95.9	94.8	87.1	50.7	51.8
87.5°	9.9	12.1	22.0	16.5	18.7	16.5	22.0	30.9	32.0	17.6	14.3
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)