

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: P454511

Luminaire Tested: **GALN-SA5C-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454511
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-SA5C-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27145 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

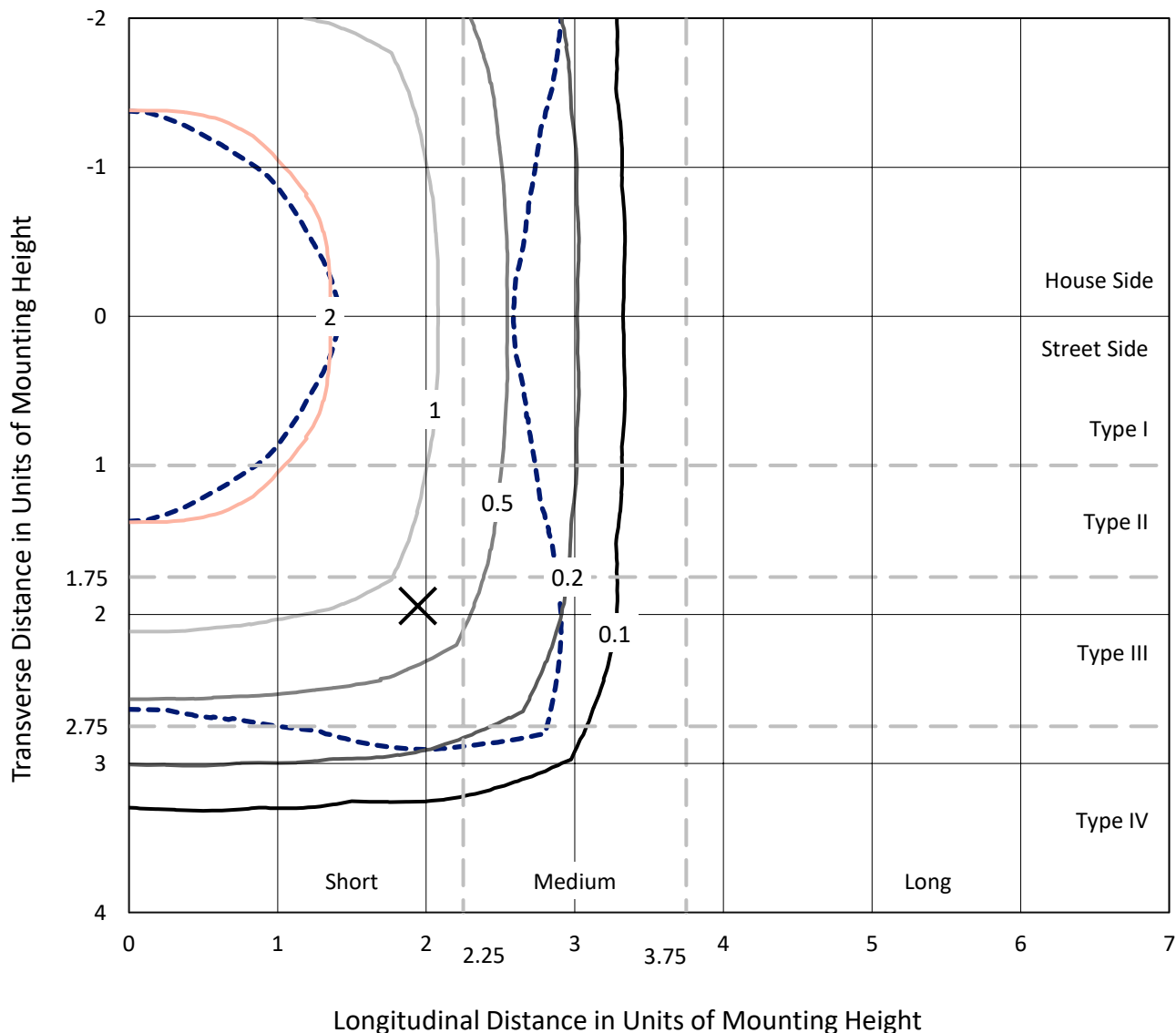
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

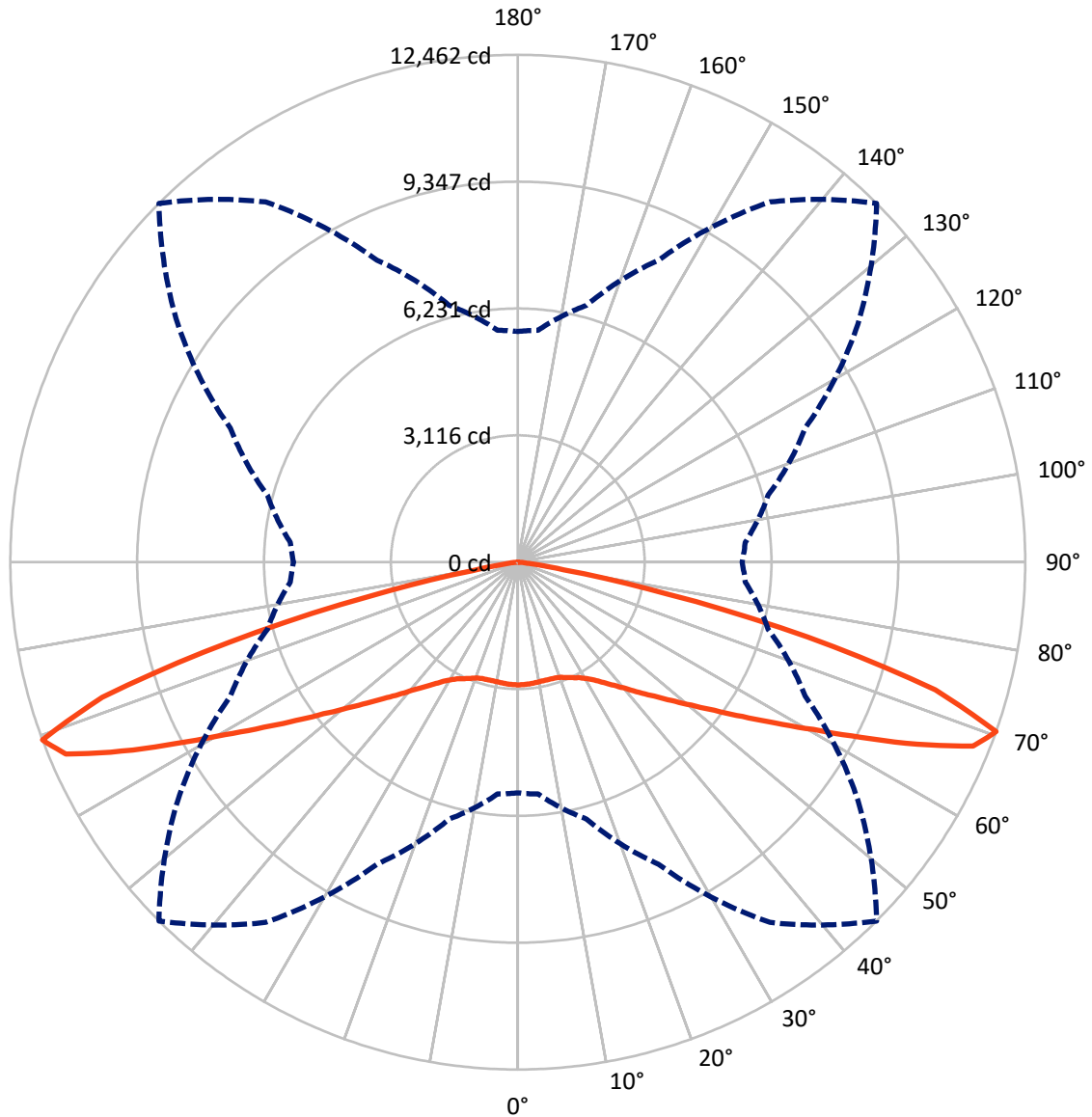
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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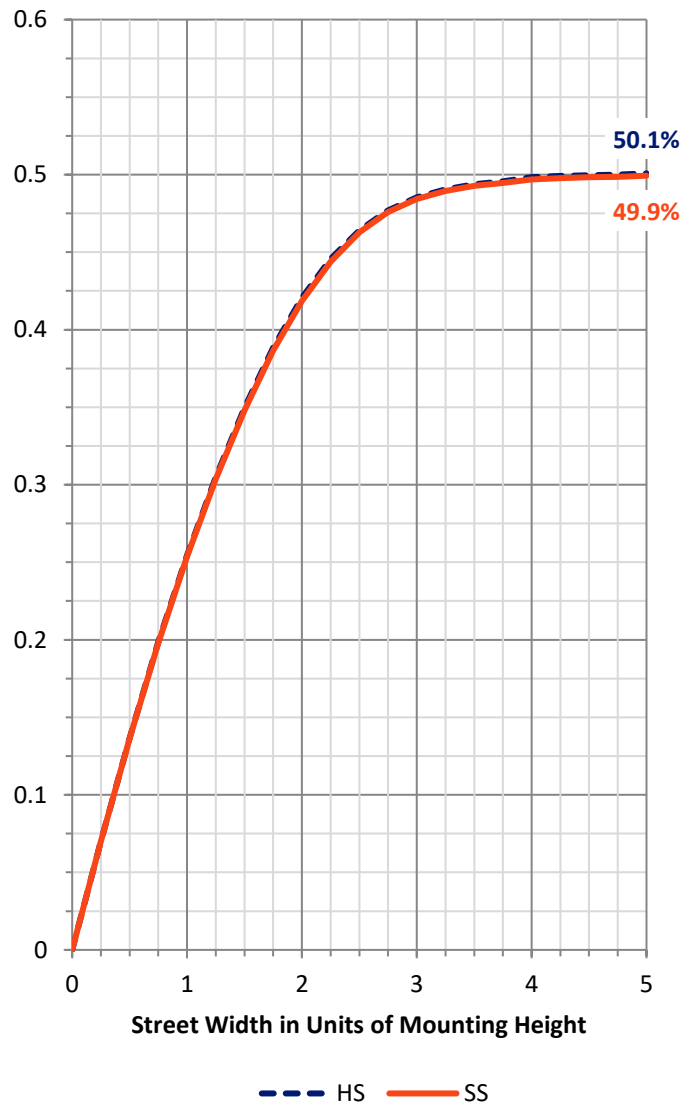
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13572.5	0.0	13572.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13572.5	0.0	13572.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27145.0	0.0	27145.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	1.1
10°-20°	838.8	3.1
20°-30°	1434.6	5.3
30°-40°	2277.0	8.4
40°-50°	3673.4	13.5
50°-60°	5976.7	22.0
60°-70°	8664.1	31.9
70°-80°	3843.1	14.2
80°-90°	151.6	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°	27145.0	100.0
0°-180°	27145.0	100.0



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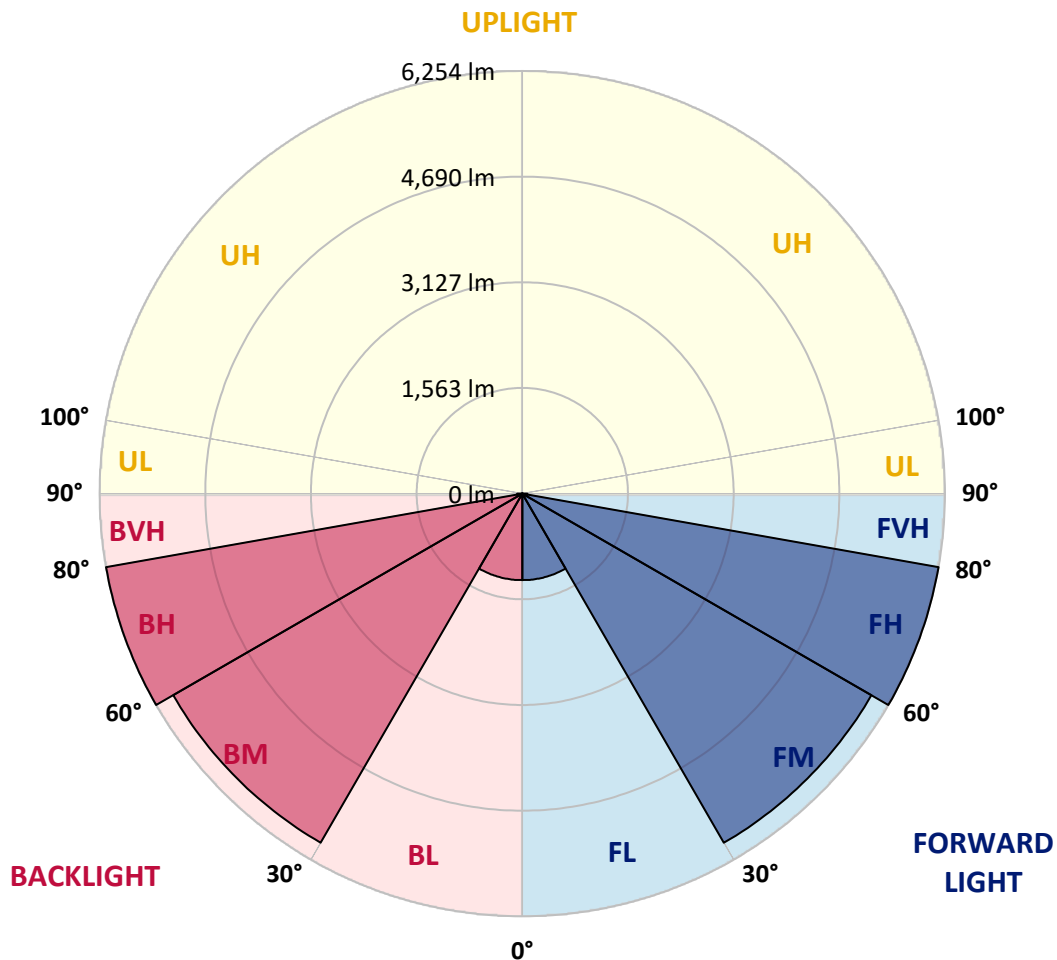
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1279.6	4.7			
FM	(30°-60°)	5963.5	22.0			
FH	(60°-80°)	6253.6	23.0			G3/7500
FVH	(80°-90°)	75.8	0.3			G1/100
BL	(0°-30°)	1279.6	4.7	B3/2500		
BM	(30°-60°)	5963.5	22.0	B4/8500		
BH	(60°-80°)	6253.6	23.0	B5		G3/7500
BVH	(80°-90°)	75.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3
2.5°	3014.3	3017.2	3012.9	3010.0	3008.6	3008.6	3007.2	3008.6	3017.2	3018.6	3014.3
5°	3005.7	3008.6	3007.2	3004.3	3002.9	3002.9	3001.4	3000.0	3007.2	3010.0	3008.6
7.5°	2994.3	2995.7	2994.3	2992.9	2994.3	2992.9	2988.6	2985.7	2991.4	2991.4	2990.0
10°	2974.3	2977.1	2975.7	2977.1	2980.0	2980.0	2974.3	2968.5	2970.0	2967.1	2967.1
12.5°	2949.9	2954.2	2955.7	2961.4	2968.5	2977.1	2964.3	2951.4	2948.5	2947.1	2945.7
15°	2934.2	2938.5	2944.2	2949.9	2962.8	2981.4	2962.8	2942.8	2937.1	2931.3	2928.5
17.5°	2929.9	2935.6	2944.2	2952.8	2970.0	2988.6	2972.8	2952.8	2938.5	2929.9	2927.1
20°	2941.4	2945.7	2958.5	2974.3	2998.6	3017.2	3001.4	2980.0	2958.5	2945.7	2941.4
22.5°	2964.3	2971.4	2987.1	3015.8	3050.1	3077.3	3055.8	3020.0	2985.7	2968.5	2962.8
25°	3014.3	3020.0	3038.6	3077.3	3117.3	3143.1	3120.2	3078.7	3031.5	3008.6	3001.4
27.5°	3090.1	3098.7	3118.8	3164.5	3197.4	3211.8	3196.0	3167.4	3133.1	3108.7	3103.0
30°	3197.4	3207.5	3237.5	3286.1	3307.6	3316.2	3309.0	3290.4	3266.1	3240.4	3234.6
32.5°	3341.9	3347.7	3382.0	3427.8	3447.8	3450.7	3442.1	3433.5	3393.4	3350.5	3347.7
35°	3503.6	3513.6	3555.1	3609.5	3628.1	3629.5	3612.3	3599.4	3552.2	3517.9	3517.9
37.5°	3718.2	3722.5	3762.5	3824.1	3844.1	3838.4	3829.8	3818.3	3768.3	3723.9	3725.3
40°	3970.0	3978.6	4012.9	4084.4	4084.4	4077.3	4083.0	4074.4	4024.3	3981.4	3982.9
42.5°	4269.0	4273.3	4314.8	4390.6	4384.9	4370.6	4376.3	4364.8	4333.4	4284.7	4267.6
45°	4588.0	4605.2	4676.7	4749.7	4738.2	4692.4	4715.3	4712.5	4683.9	4610.9	4615.2
47.5°	4972.8	5001.5	5070.1	5157.4	5144.5	5073.0	5098.7	5115.9	5075.9	4995.7	4981.4
50°	5406.3	5424.9	5526.5	5608.0	5596.6	5520.8	5579.4	5582.3	5482.2	5369.1	5369.1
52.5°	5868.4	5887.0	6024.4	6151.7	6158.8	6048.7	6095.9	6093.0	5929.9	5781.2	5752.5
55°	6386.3	6394.9	6572.3	6759.7	6799.8	6692.5	6698.2	6641.0	6429.2	6256.1	6240.4
57.5°	6921.4	6952.8	7148.8	7392.0	7510.8	7445.0	7414.9	7261.8	7057.3	6858.4	6848.4
60°	7513.6	7515.1	7769.7	8057.3	8297.6	8342.0	8218.9	8014.4	7749.7	7486.5	7475.0
62.5°	7924.2	7985.7	8307.6	8794.0	9224.7	9473.6	9148.8	8719.7	8198.9	7774.0	7731.1
65°	8008.6	8050.1	8540.8	9364.9	10244.7	10781.2	10030.1	9117.4	8228.9	7662.4	7633.8
67.5°	7326.2	7370.6	8031.5	9296.2	10960.0	12060.2	10602.4	8925.7	7719.6	7018.6	6962.8
70°	5666.7	5716.8	6533.7	8183.2	10801.2	12462.2	10194.6	7785.5	6366.3	5609.5	5507.9
72.5°	3012.9	3197.4	3895.6	5616.6	8766.9	10729.7	8359.1	5681.0	4105.9	3356.2	3221.8
75°	1100.1	1123.0	1512.2	2490.7	5100.2	7357.7	5296.2	2709.6	1557.9	1203.2	1141.6
77.5°	454.9	453.5	497.9	752.5	1852.7	3768.3	2067.3	795.4	496.4	459.2	453.5
80°	269.0	269.0	296.1	313.3	487.8	1137.3	545.1	354.8	297.6	271.8	276.1
82.5°	120.2	127.3	187.4	197.4	236.1	311.9	263.2	226.0	194.6	134.5	121.6
85°	65.8	57.2	98.7	103.0	113.0	115.9	124.5	123.0	113.0	65.8	67.2
87.5°	12.9	15.7	28.6	21.5	24.3	21.5	28.6	40.1	41.5	22.9	18.6
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)