

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: P453410

Luminaire Tested: **GALN-SA4C-722-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-722-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21337 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

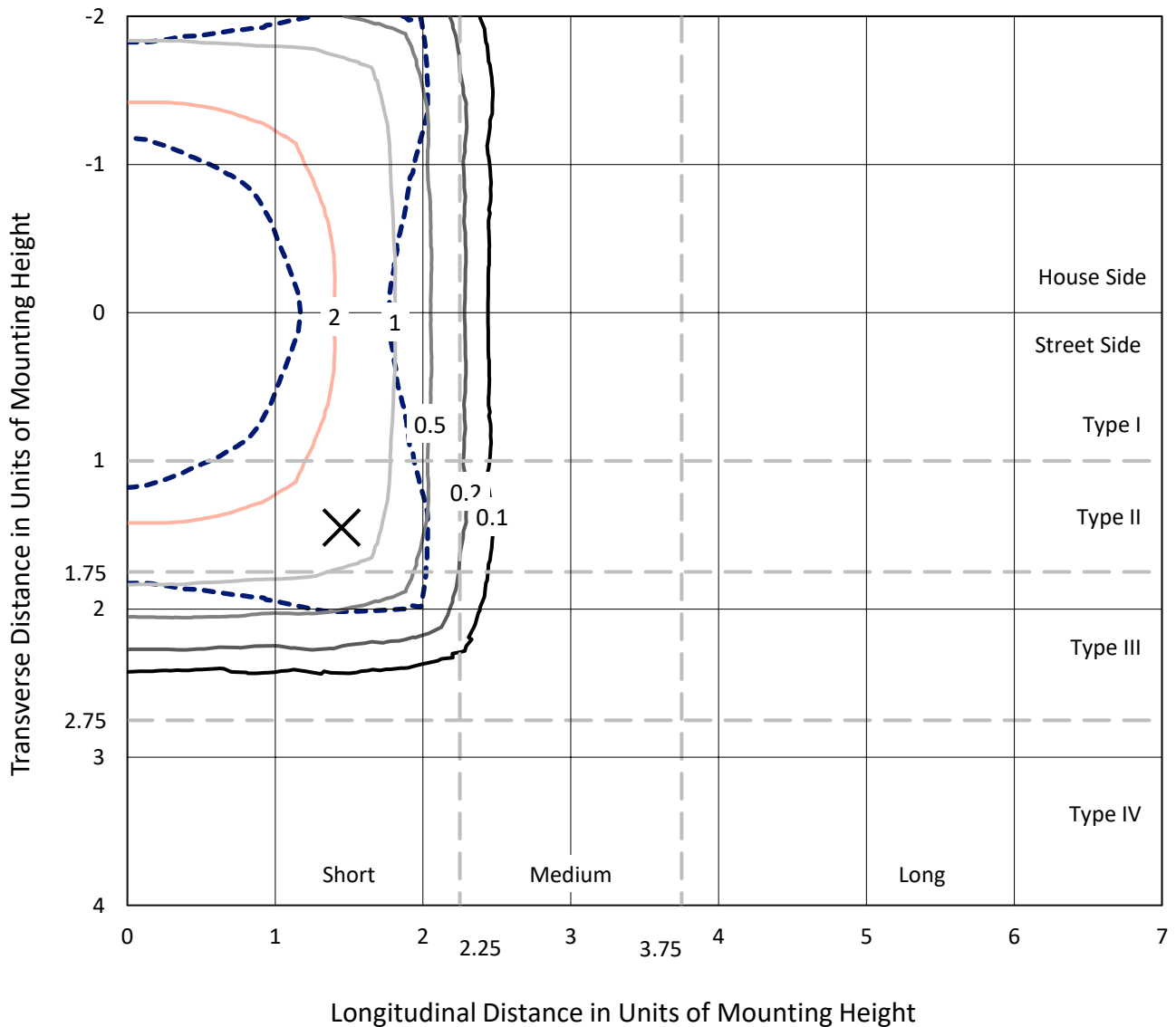
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

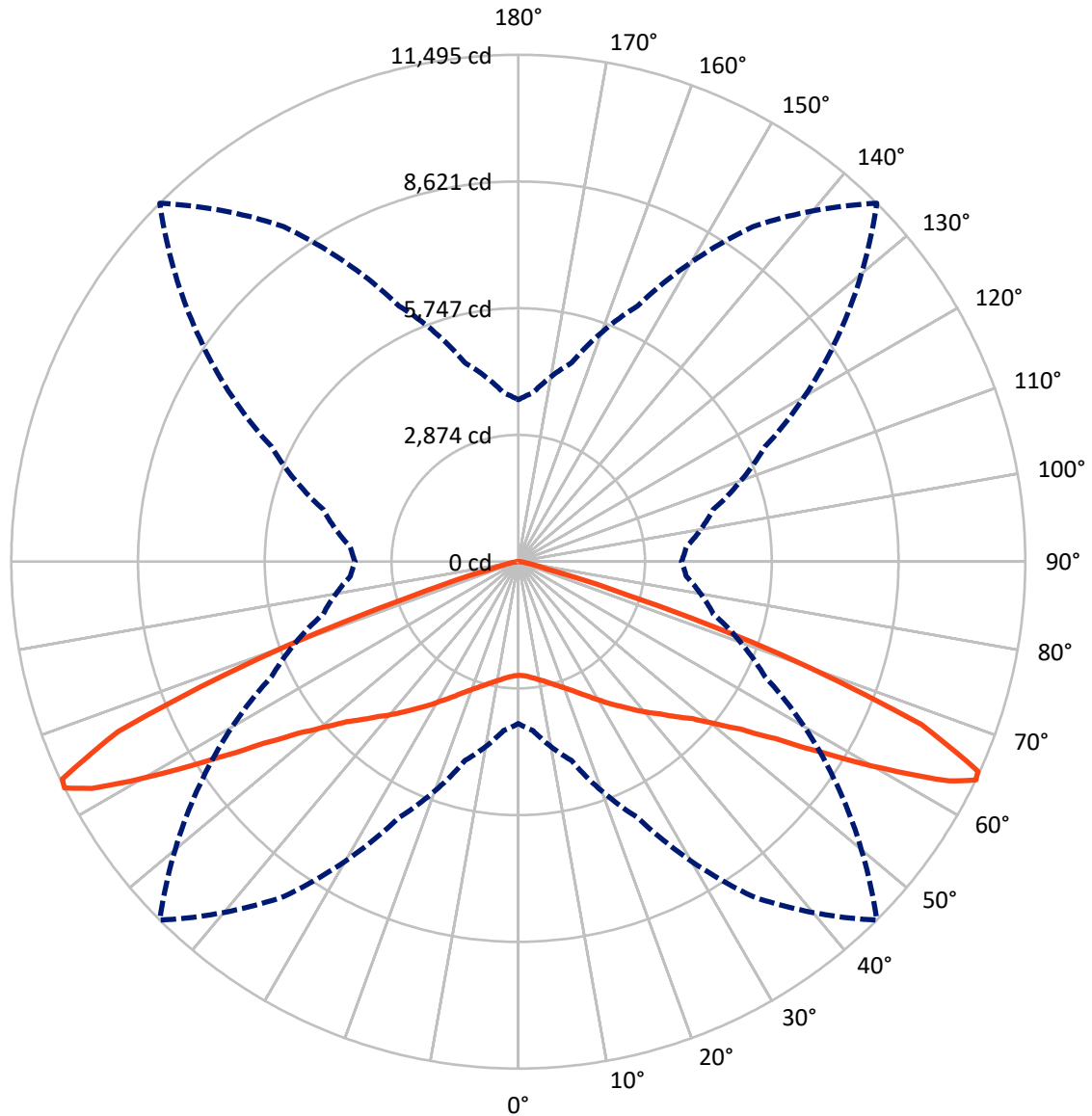
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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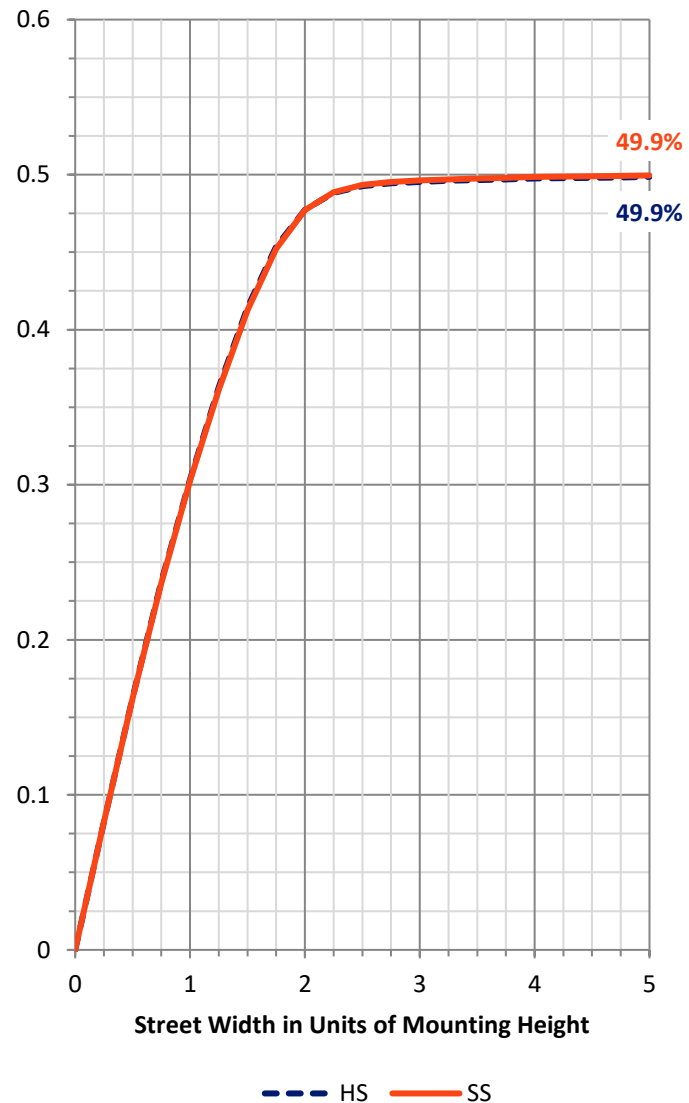
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10668.5	0.0	10668.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10668.5	0.0	10668.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21337.0	0.0	21337.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	1.2
10°-20°	817.3	3.8
20°-30°	1544.4	7.2
30°-40°	2557.7	12.0
40°-50°	3992.9	18.7
50°-60°	6173.0	28.9
60°-70°	5322.9	24.9
70°-80°	603.2	2.8
80°-90°	72.3	0.3
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°	21337.0	100.0
0°-180°	21337.0	100.0



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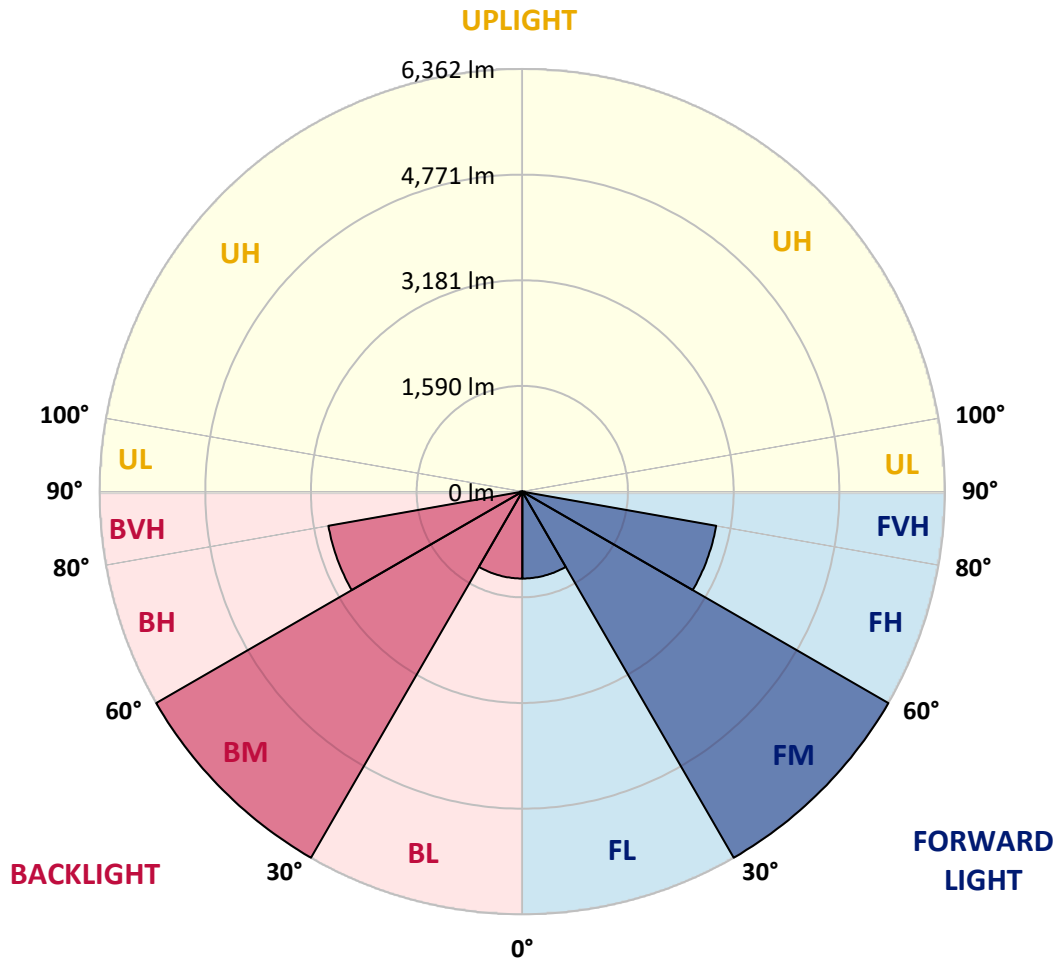
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.5	6.1			
FM (30°-60°)	6361.8	29.8			
FH (60°-80°)	2963.1	13.9			G2/5000
FVH (80°-90°)	36.1	0.2			G1/100
BL (0°-30°)	1307.5	6.1	B3/2500		
BM (30°-60°)	6361.8	29.8	B4/8500		
BH (60°-80°)	2963.1	13.9	B4/5000		G2/5000
BVH (80°-90°)	36.1	0.2			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°	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9
2.5°	2589.1	2594.8	2590.2	2589.1	2588.0	2588.0	2588.0	2589.1	2593.6	2597.0	2594.8
5°	2621.9	2626.4	2624.1	2623.0	2621.9	2623.0	2620.7	2619.6	2623.0	2623.0	2621.9
7.5°	2662.6	2668.2	2666.0	2668.2	2669.3	2670.5	2664.8	2660.3	2659.2	2662.6	2660.3
10°	2717.9	2722.5	2723.6	2724.7	2727.0	2725.9	2719.1	2711.2	2710.0	2708.9	2707.8
12.5°	2780.1	2783.5	2784.6	2789.1	2792.5	2793.7	2785.7	2779.0	2767.7	2769.9	2765.4
15°	2850.2	2856.9	2855.8	2862.6	2871.6	2873.9	2866.0	2854.7	2844.5	2838.9	2835.5
17.5°	2936.1	2940.6	2938.3	2945.1	2956.4	2962.0	2955.3	2940.6	2930.4	2918.0	2911.2
20°	3037.8	3045.7	3047.9	3047.9	3058.1	3063.8	3053.6	3049.1	3033.2	3024.2	3018.6
22.5°	3153.0	3156.4	3163.2	3170.0	3180.2	3177.9	3174.5	3167.7	3153.0	3145.1	3136.1
25°	3283.0	3286.4	3303.3	3318.0	3321.4	3319.2	3314.6	3311.3	3297.7	3279.6	3272.8
27.5°	3434.4	3441.2	3463.8	3477.4	3477.4	3478.5	3469.5	3480.8	3451.4	3429.9	3427.7
30°	3624.3	3628.8	3648.0	3661.6	3654.8	3649.2	3646.9	3658.2	3626.6	3588.1	3579.1
32.5°	3811.9	3827.7	3844.7	3874.1	3850.3	3840.1	3837.9	3845.8	3809.6	3766.7	3754.3
35°	4013.1	4024.4	4056.0	4080.9	4059.4	4035.7	4045.8	4070.7	4027.7	3970.1	3967.9
37.5°	4235.7	4245.9	4286.5	4312.5	4296.7	4256.0	4273.0	4302.4	4259.4	4188.2	4173.5
40°	4467.4	4488.8	4539.7	4566.8	4540.8	4486.6	4518.2	4549.9	4511.4	4428.9	4396.2
42.5°	4727.3	4761.2	4834.7	4848.2	4798.5	4725.0	4780.4	4831.3	4804.1	4709.2	4696.8
45°	5031.3	5051.6	5142.0	5171.4	5102.5	5011.0	5079.9	5172.6	5152.2	5042.6	5018.9
47.5°	5371.5	5390.7	5484.5	5528.6	5441.5	5318.3	5442.7	5563.6	5551.2	5433.6	5422.3
50°	5773.8	5778.3	5908.3	5958.0	5871.0	5764.7	5875.5	6025.8	5976.1	5825.8	5823.5
52.5°	6214.5	6220.2	6384.1	6480.1	6431.5	6311.7	6442.8	6534.4	6407.8	6211.1	6196.5
55°	6596.5	6624.8	6848.5	7103.9	7170.6	7083.6	7123.2	7080.2	6768.3	6492.5	6449.6
57.5°	6752.5	6807.8	7148.0	7624.9	8058.9	8187.7	7882.6	7473.5	6911.8	6521.9	6480.1
60°	6371.6	6431.5	6959.3	7864.5	8972.0	9531.4	8673.7	7540.2	6585.2	6037.1	5971.6
62.5°	5102.5	5119.4	5895.8	7300.6	9504.3	10953.1	9007.1	6971.7	5634.8	4890.0	4864.0
64°	3671.8	3845.8	4668.5	6401.0	9271.5	11494.5	8814.9	6175.0	4577.0	3823.2	3701.1
65°	2746.2	2793.7	3763.3	5466.4	8861.3	11453.8	8442.0	5413.3	3790.4	2925.9	2790.3
67.5°	1037.5	1043.1	1388.9	2724.7	6308.3	9854.7	6442.8	2945.1	1596.9	1155.0	1113.2
70°	430.6	438.5	509.7	916.5	2711.2	6327.5	3106.7	1062.3	584.3	473.5	466.7
72.5°	315.3	319.8	341.3	406.8	834.0	2598.1	1021.6	450.9	342.4	306.3	302.9
75°	247.5	249.8	265.6	299.5	388.8	719.9	424.9	309.7	261.1	235.1	232.8
77.5°	188.7	194.4	205.7	228.3	261.1	341.3	281.4	231.7	201.2	179.7	176.3
80°	130.0	136.7	158.2	167.3	175.2	221.5	192.1	175.2	157.1	131.1	123.2
82.5°	80.2	84.8	106.2	114.1	110.8	124.3	123.2	125.4	111.9	81.4	75.7
85°	41.8	44.1	57.6	59.9	55.4	50.9	63.3	73.5	68.9	46.3	45.2
87.5°	9.0	10.2	12.4	11.3	12.4	12.4	15.8	23.7	24.9	15.8	14.7
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)