

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: P528924

Luminaire Tested: **GALN-SA4A-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15968 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

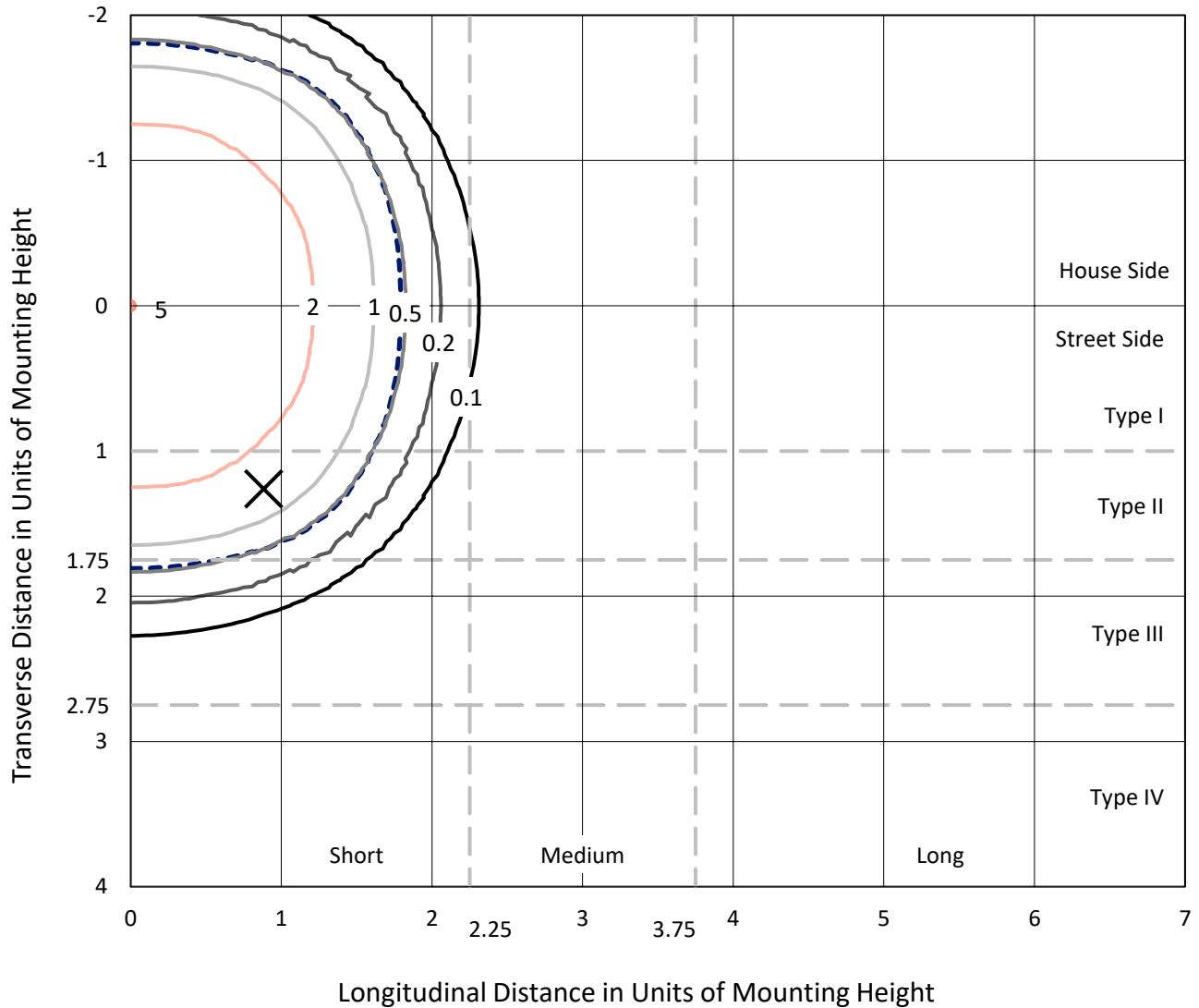
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

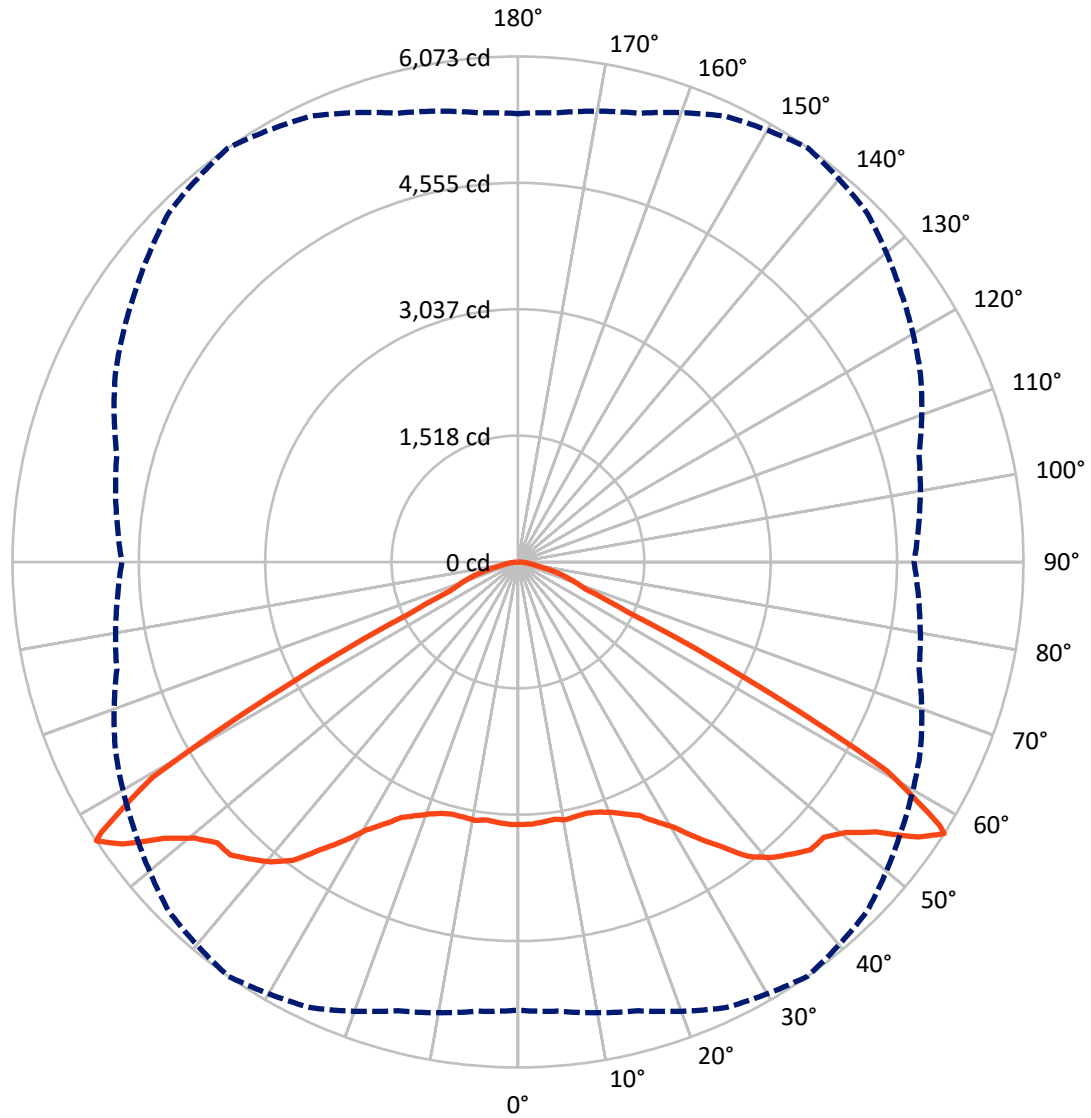
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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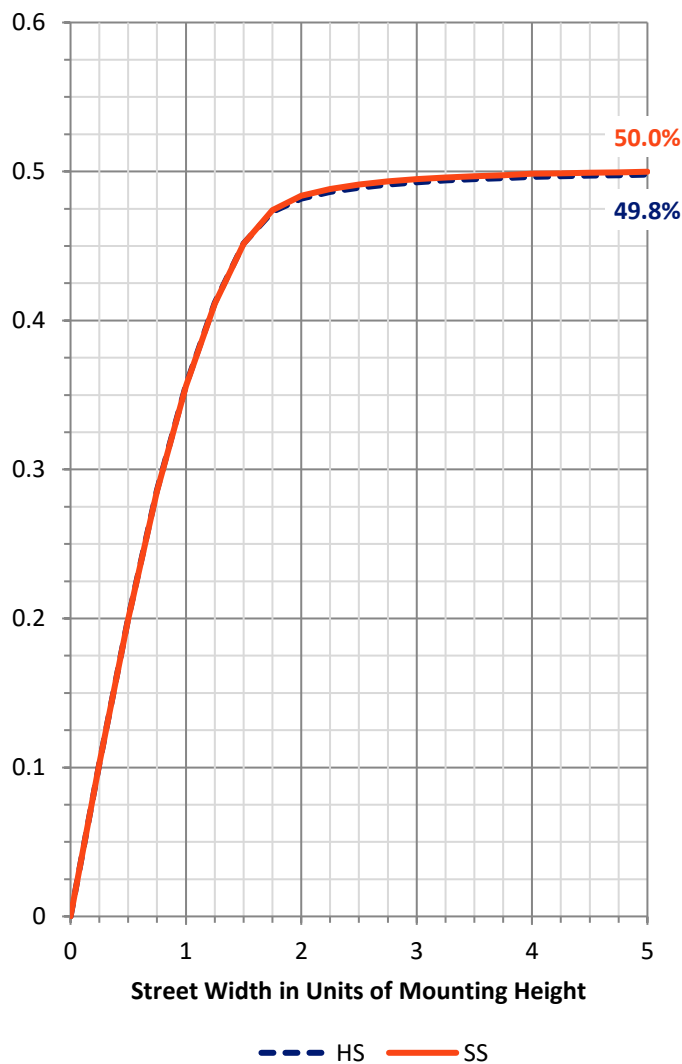
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7984.0	0.0	7984.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7984.0	0.0	7984.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15968.0	0.0	15968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.0	1.9
10°-20°	885.5	5.5
20°-30°	1546.4	9.7
30°-40°	2533.9	15.9
40°-50°	3715.3	23.3
50°-60°	4679.7	29.3
60°-70°	1760.0	11.0
70°-80°	468.0	2.9
80°-90°	80.2	0.5
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°	15968.0	100.0
0°-180°	15968.0	100.0

Coefficient of Utilization



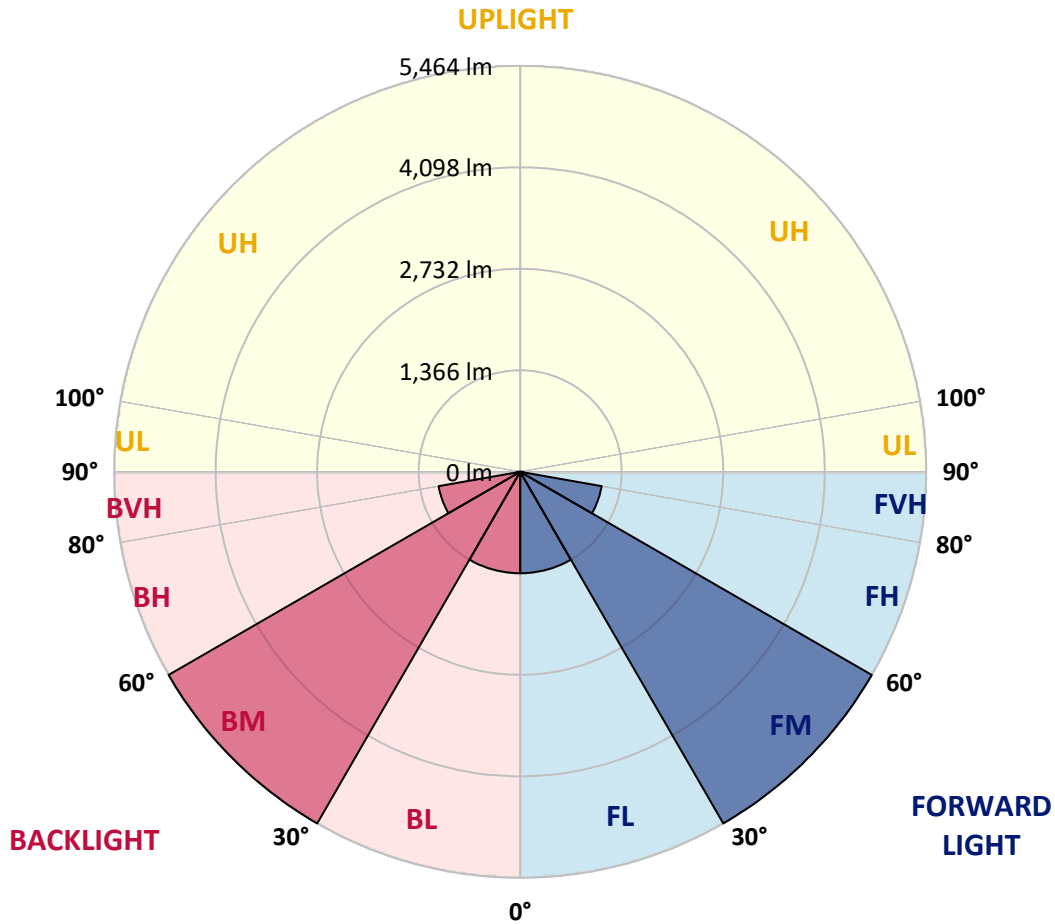
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1365.4	8.6			
FM (30°-60°)	5464.5	34.2			
FH (60°-80°)	1114.0	7.0			G1/1800
FVH (80°-90°)	40.1	0.3			G1/100
BL (0°-30°)	1365.4	8.6	B3/2500		
BM (30°-60°)	5464.5	34.2	B4/8500		
BH (60°-80°)	1114.0	7.0	B3/2500		G1/1800
BVH (80°-90°)	40.1	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6
2.5°	3137.8	3169.3	3155.5	3147.7	3153.6	3143.7	3128.0	3145.7	3141.8	3126.0	3120.1
5°	3130.0	3153.6	3137.8	3153.6	3137.8	3165.4	3157.5	3128.0	3163.4	3130.0	3141.8
7.5°	3124.1	3131.9	3135.9	3128.0	3122.1	3155.5	3137.8	3124.1	3104.4	3098.5	3108.3
10°	3110.3	3130.0	3100.4	3139.8	3147.7	3124.1	3124.1	3098.5	3082.7	3072.9	3106.3
12.5°	3145.7	3112.2	3108.3	3128.0	3133.9	3143.7	3116.2	3102.4	3072.9	3076.8	3070.9
15°	3104.4	3118.2	3120.1	3124.1	3130.0	3153.6	3128.0	3098.5	3086.7	3045.4	3049.3
17.5°	3120.1	3106.3	3120.1	3165.4	3157.5	3175.2	3147.7	3102.4	3074.9	3051.3	3082.7
20°	3147.7	3141.8	3147.7	3202.7	3212.6	3228.3	3204.7	3163.4	3110.3	3082.7	3098.5
22.5°	3177.2	3173.2	3177.2	3230.3	3287.3	3307.0	3283.4	3187.0	3159.5	3108.3	3090.6
25°	3230.3	3234.2	3275.5	3334.6	3371.9	3409.3	3366.0	3297.2	3208.6	3177.2	3139.8
27.5°	3348.3	3358.2	3381.8	3468.3	3533.2	3566.7	3505.7	3411.3	3356.2	3291.3	3281.4
30°	3493.9	3493.9	3535.2	3610.0	3698.5	3749.7	3674.9	3562.8	3495.9	3460.5	3438.8
32.5°	3686.7	3665.1	3680.8	3812.6	3950.3	3993.6	3893.3	3755.6	3649.3	3602.1	3586.4
35°	3851.9	3865.7	3901.1	4042.8	4196.2	4296.6	4139.2	3960.2	3851.9	3808.7	3800.8
37.5°	4066.4	4090.0	4107.7	4302.5	4487.4	4524.8	4373.3	4229.7	4097.9	4062.4	4042.8
40°	4369.3	4353.6	4359.5	4503.1	4670.3	4693.9	4544.4	4442.1	4333.9	4312.3	4312.3
42.5°	4619.2	4601.5	4621.2	4674.3	4802.1	4784.4	4701.8	4627.1	4581.8	4558.2	4581.8
45°	4770.7	4766.7	4802.1	4841.5	4932.0	4873.0	4808.1	4819.9	4776.6	4737.2	4735.3
47.5°	4935.9	4910.4	4953.6	5012.6	4943.8	4916.3	4912.3	4937.9	4924.1	4855.3	4833.6
50°	5016.6	5006.7	5075.6	5144.5	5107.1	5044.1	5057.9	5099.2	4922.2	4829.7	4776.6
52.5°	5233.0	5235.0	5366.8	5404.1	5388.4	5295.9	5325.4	5213.3	5004.8	4874.9	4880.8
55°	5573.3	5559.6	5707.1	5817.3	5835.0	5716.9	5575.3	5417.9	5156.3	5024.5	4985.1
57°	5386.4	5417.9	5581.2	5907.8	6073.0	5933.3	5624.5	5337.3	4989.0	4829.7	4758.9
57.5°	5136.6	5187.7	5471.0	5799.6	5972.7	5960.9	5563.5	5187.7	4876.9	4629.0	4634.9
60°	3763.4	3773.3	4029.0	4550.3	5091.3	5103.1	4619.2	4121.5	3775.2	3505.7	3543.1
62.5°	1985.0	2030.2	2132.5	2551.6	3019.8	3133.9	2840.8	2585.0	2286.0	2081.4	2101.1
65°	1050.5	1044.6	1093.8	1211.8	1442.0	1501.0	1461.7	1259.1	1154.8	1121.4	1123.3
67.5°	853.8	863.6	857.7	863.6	879.4	905.0	899.1	906.9	912.8	922.7	920.7
70°	724.0	724.0	727.9	729.9	729.9	741.7	755.4	781.0	783.0	792.8	796.8
72.5°	570.5	566.6	572.5	586.3	588.2	598.1	617.7	633.5	639.4	639.4	627.6
75°	387.6	391.5	399.4	411.2	423.0	440.7	456.4	466.2	470.2	464.3	458.4
77.5°	218.4	222.3	228.2	245.9	259.7	275.4	293.1	303.0	312.8	314.8	303.0
80°	129.8	129.8	139.7	153.4	169.2	184.9	200.7	212.5	216.4	216.4	210.5
82.5°	78.7	80.7	88.5	102.3	116.1	125.9	139.7	149.5	157.4	155.4	151.5
85°	41.3	41.3	49.2	61.0	70.8	80.7	80.7	74.8	70.8	61.0	57.1
87.5°	13.8	11.8	15.7	15.7	13.8	15.7	15.7	17.7	17.7	17.7	17.7
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)