

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: P529786

Luminaire Tested: **GALN-SA5A-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16249 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

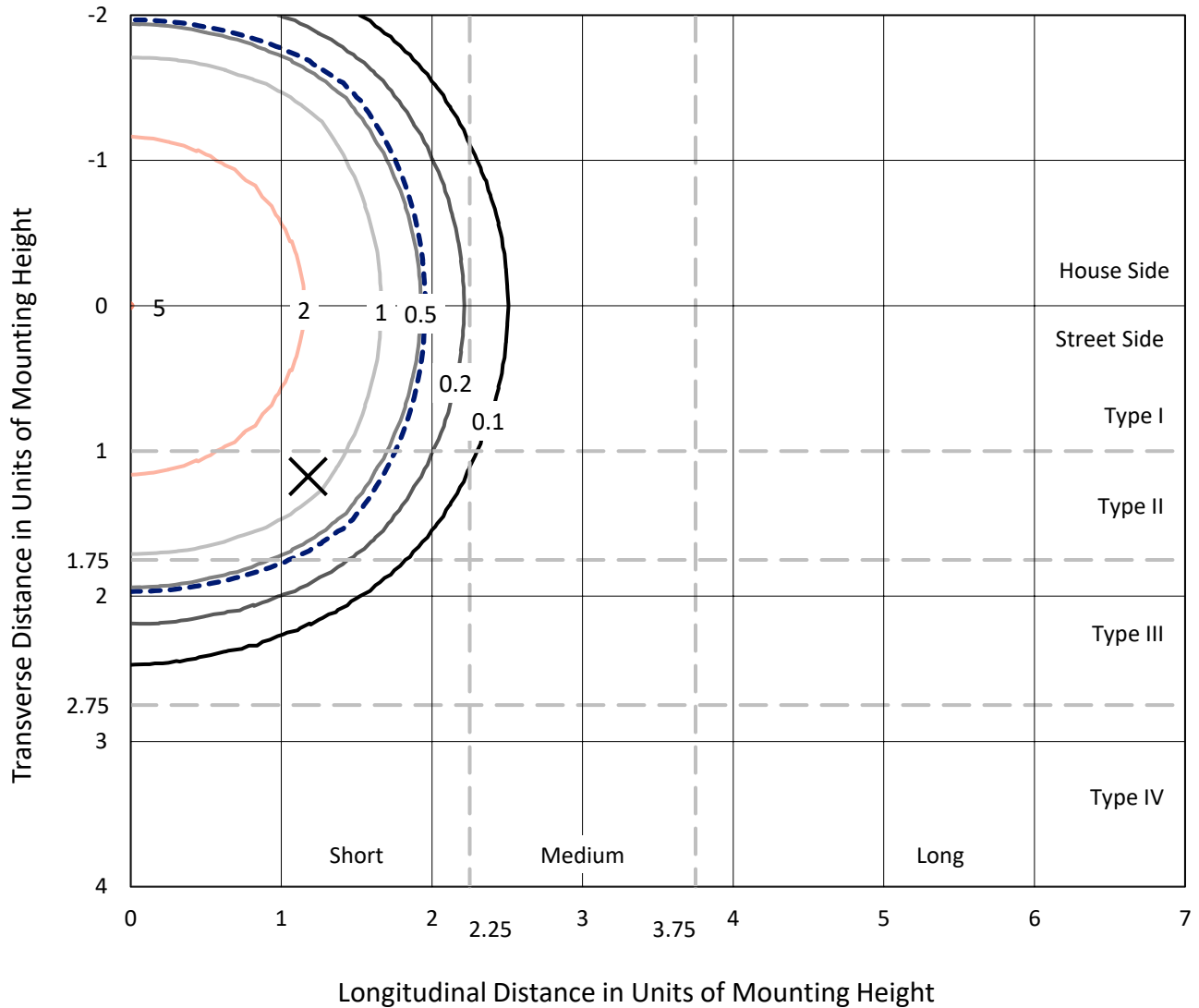
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

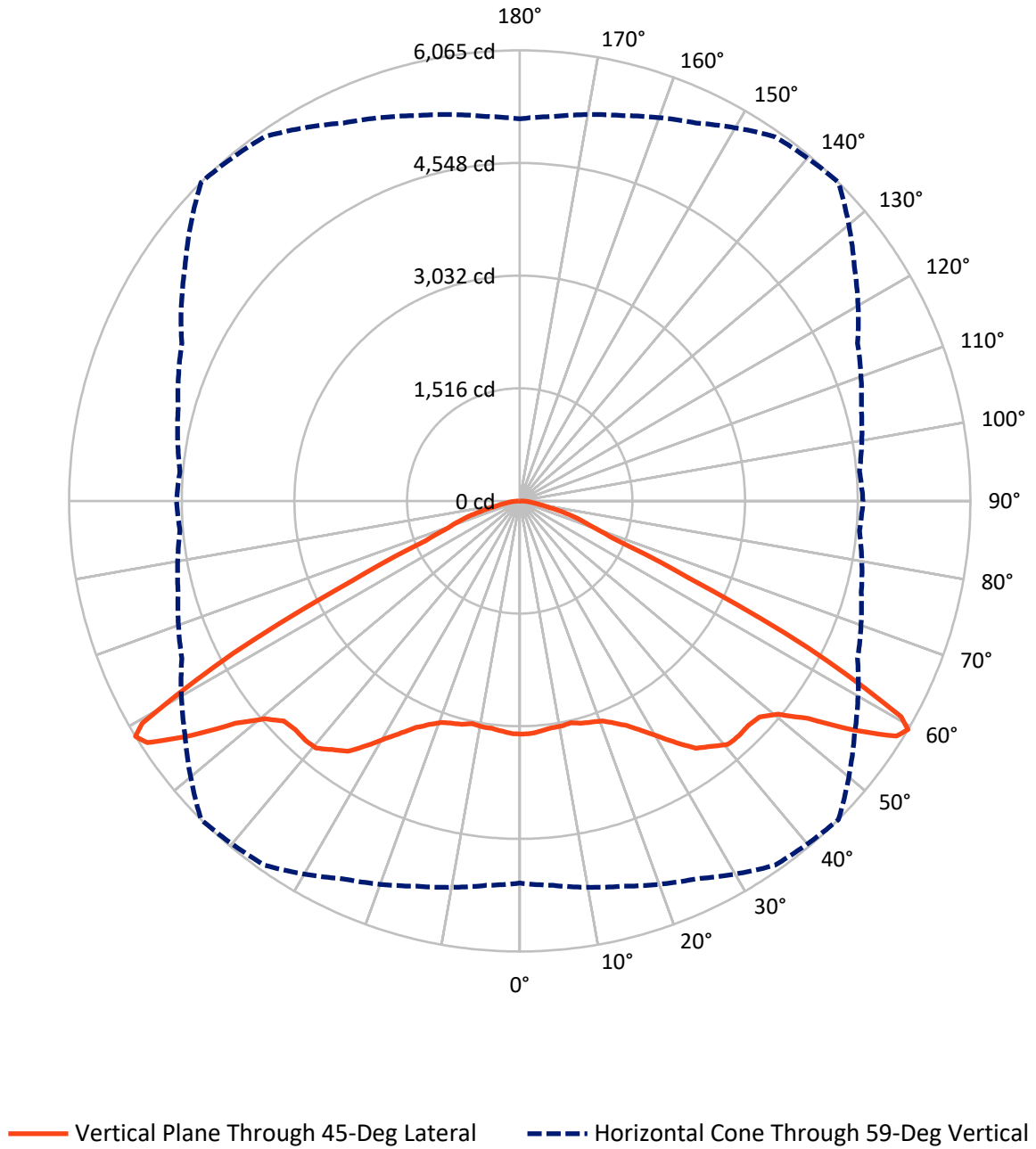
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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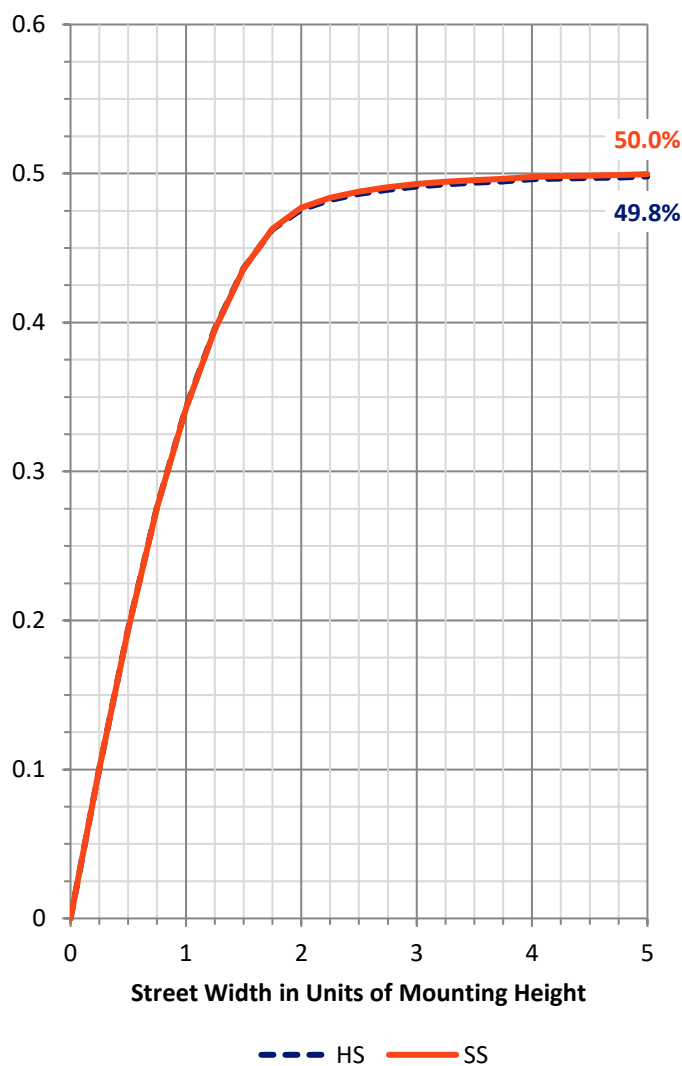
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8124.5	0.0	8124.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8124.5	0.0	8124.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16249.0	0.0	16249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.9	1.8
10°-20°	879.8	5.4
20°-30°	1536.3	9.5
30°-40°	2453.7	15.1
40°-50°	3342.4	20.6
50°-60°	4519.9	27.8
60°-70°	2478.7	15.3
70°-80°	634.1	3.9
80°-90°	108.1	0.7
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°	16249.0	100.0
0°-180°	16249.0	100.0

Coefficient of Utilization



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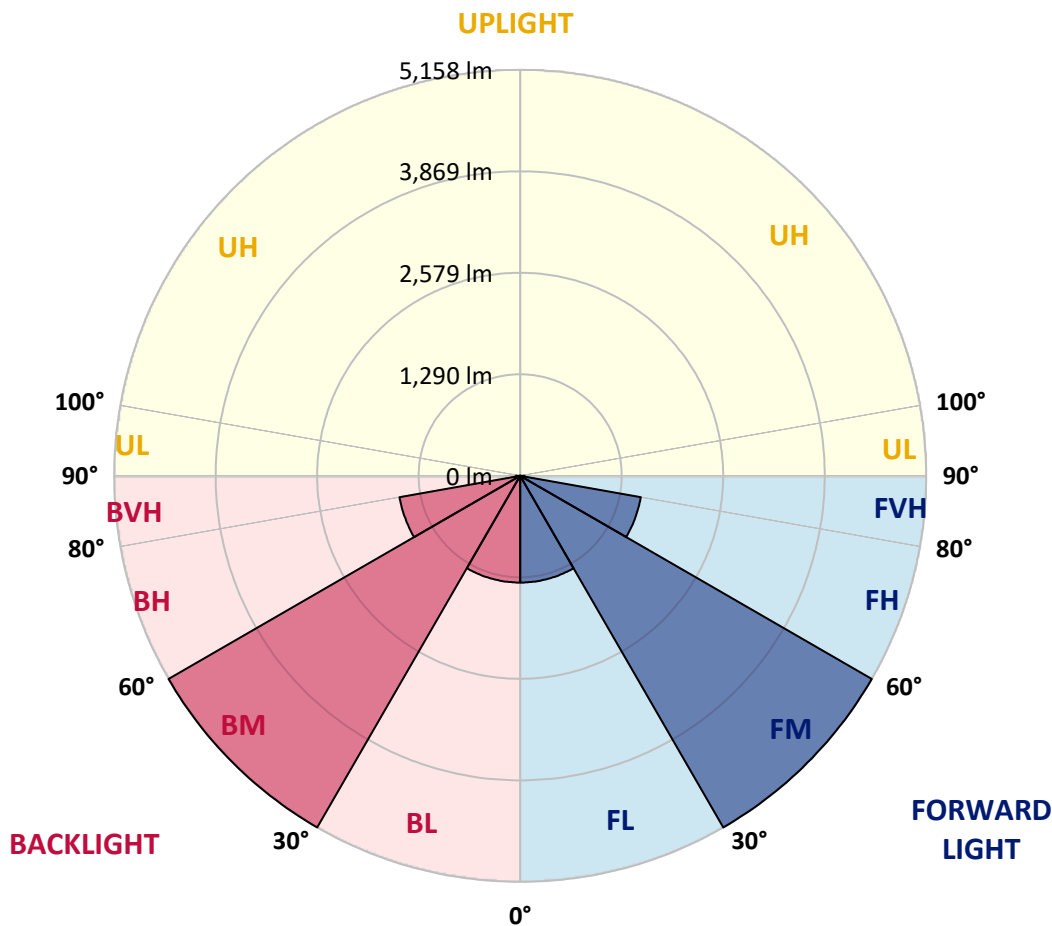
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.0	8.3			
FM (30°-60°)	5158.0	31.7			
FH (60°-80°)	1556.4	9.6			G1/1800
FVH (80°-90°)	54.1	0.3			G1/100
BL (0°-30°)	1356.0	8.3	B3/2500		
BM (30°-60°)	5158.0	31.7	B4/8500		
BH (60°-80°)	1556.4	9.6	B3/2500		G1/1800
BVH (80°-90°)	54.1	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°	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5
2.5°	3119.8	3142.7	3126.0	3140.6	3138.5	3132.3	3121.9	3115.6	3107.3	3119.8	3099.0
5°	3107.3	3126.0	3144.8	3119.8	3119.8	3107.3	3101.0	3088.5	3088.5	3086.5	3084.4
7.5°	3128.1	3109.4	3101.0	3105.2	3109.4	3082.3	3101.0	3076.1	3055.2	3069.8	3086.5
10°	3109.4	3117.7	3086.5	3101.0	3078.1	3082.3	3069.8	3086.5	3063.6	3063.6	3063.6
12.5°	3128.1	3105.2	3115.6	3105.2	3099.0	3063.6	3080.2	3061.5	3059.4	3080.2	3061.5
15°	3165.6	3128.1	3119.8	3099.0	3105.2	3105.2	3088.5	3090.6	3067.7	3080.2	3084.4
17.5°	3153.1	3132.3	3126.0	3101.0	3121.9	3128.1	3096.9	3076.1	3090.6	3088.5	3086.5
20°	3163.5	3171.9	3165.6	3169.8	3178.1	3161.4	3132.3	3103.1	3084.4	3111.5	3109.4
22.5°	3230.2	3221.8	3217.7	3213.5	3228.1	3244.7	3205.2	3159.4	3159.4	3178.1	3186.4
25°	3284.3	3282.2	3280.1	3298.9	3348.9	3348.9	3298.9	3240.6	3226.0	3238.5	3228.1
27.5°	3363.5	3386.4	3378.0	3411.4	3484.2	3500.9	3434.3	3365.5	3326.0	3311.4	3330.1
30°	3544.6	3517.6	3523.8	3559.2	3623.8	3677.9	3575.9	3503.0	3448.8	3446.8	3455.1
32.5°	3665.4	3686.3	3705.0	3738.3	3840.4	3882.0	3759.2	3640.4	3607.1	3588.4	3594.6
35°	3907.0	3888.3	3884.1	3917.4	4019.5	4088.2	3934.1	3830.0	3786.2	3827.9	3827.9
37.5°	4136.1	4084.0	4044.5	4088.2	4181.9	4190.3	4059.1	4002.8	3979.9	4027.8	4025.7
40°	4244.4	4240.2	4148.6	4173.6	4298.6	4311.1	4188.2	4121.5	4117.4	4179.8	4242.3
42.5°	4356.9	4317.3	4225.7	4242.3	4319.4	4323.5	4206.9	4188.2	4234.0	4294.4	4298.6
45°	4375.6	4342.3	4284.0	4242.3	4298.6	4311.1	4242.3	4254.8	4259.0	4331.9	4331.9
47.5°	4413.1	4408.9	4375.6	4344.4	4354.8	4344.4	4300.6	4319.4	4381.9	4417.3	4400.6
50°	4517.2	4473.5	4506.8	4479.7	4481.8	4511.0	4471.4	4490.2	4477.7	4446.4	4425.6
52.5°	4746.3	4725.5	4754.7	4773.4	4794.2	4860.9	4815.1	4715.1	4621.4	4538.1	4536.0
55°	5081.6	5096.2	5152.4	5248.2	5329.5	5435.7	5214.9	4975.4	4825.5	4694.3	4702.6
57.5°	5398.2	5387.8	5464.8	5683.5	5920.9	5975.1	5541.9	5200.3	4956.7	4873.4	4838.0
59°	5144.1	5194.1	5369.0	5612.7	5985.5	6064.6	5498.2	5017.1	4758.8	4590.1	4619.3
60°	4744.2	4763.0	4919.2	5258.7	5762.6	5898.0	5204.5	4733.8	4390.2	4292.3	4336.0
62.5°	3353.0	3338.5	3450.9	3727.9	4179.8	4363.1	3869.5	3538.4	3321.8	3213.5	3238.5
65°	1782.7	1849.4	1895.2	2068.1	2307.6	2501.2	2297.1	2153.4	2032.7	1943.1	1941.0
67.5°	1203.8	1195.4	1205.8	1245.4	1326.6	1380.8	1376.6	1303.7	1293.3	1276.7	1295.4
70°	1014.2	1010.1	991.3	991.3	1008.0	1020.5	1035.1	1043.4	1060.1	1080.9	1078.8
72.5°	822.6	812.2	799.7	793.5	814.3	820.6	839.3	847.6	862.2	860.1	878.9
75°	543.6	543.6	558.1	574.8	581.1	593.6	595.6	620.6	620.6	624.8	608.1
77.5°	304.1	295.7	306.1	322.8	337.4	360.3	383.2	401.9	412.4	408.2	408.2
80°	177.0	177.0	187.4	206.2	224.9	245.8	262.4	277.0	287.4	283.2	274.9
82.5°	110.4	110.4	120.8	139.5	154.1	166.6	189.5	208.3	220.8	216.6	206.2
85°	56.2	56.2	68.7	81.2	100.0	108.3	106.2	97.9	95.8	85.4	85.4
87.5°	14.6	14.6	20.8	22.9	18.7	20.8	20.8	20.8	20.8	20.8	22.9
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)