

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: P529790

Luminaire Tested: **GALN-SA5A-727-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
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-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16783 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

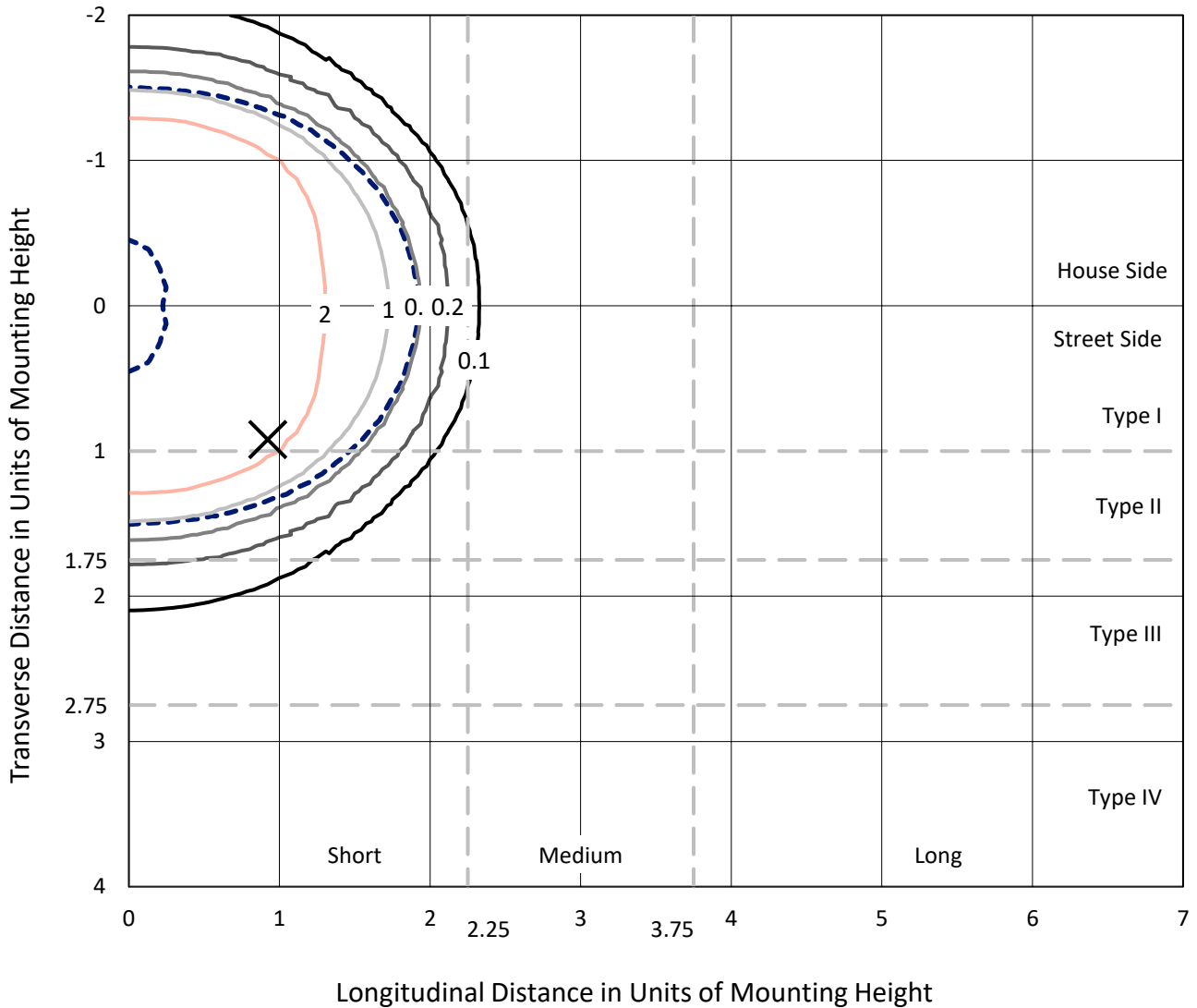
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

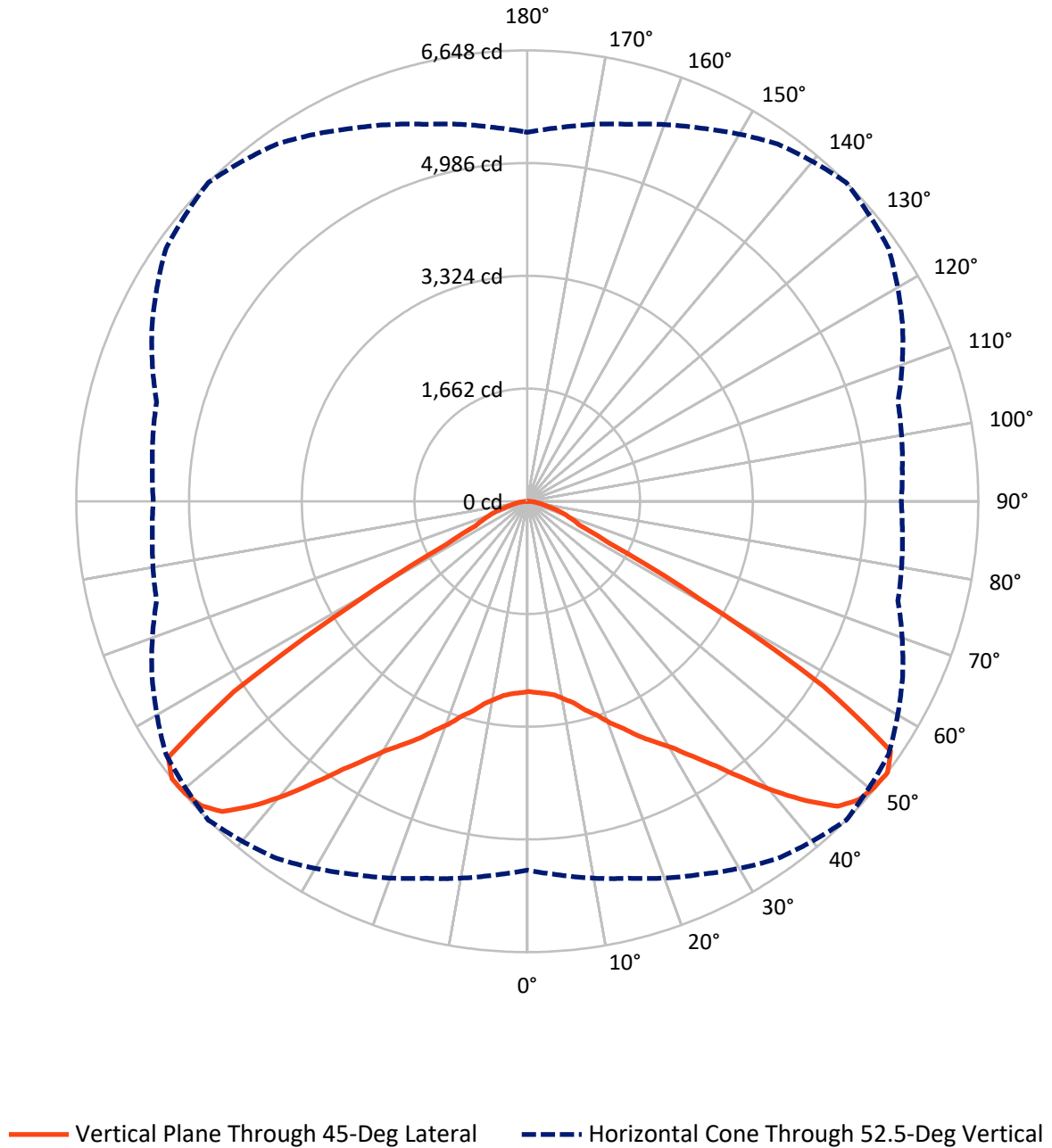
✕ Max cd
 - - - 1/2 Max cd



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	8391.5	0.0	8391.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8391.5	0.0	8391.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16783.0	0.0	16783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	1.6
10°-20°	905.7	5.4
20°-30°	1724.3	10.3
30°-40°	2960.8	17.6
40°-50°	4550.9	27.1
50°-60°	4621.3	27.5
60°-70°	1287.9	7.7
70°-80°	379.9	2.3
80°-90°	76.5	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°	16783.0	100.0
0°-180°	16783.0	100.0

Coefficient of Utilization



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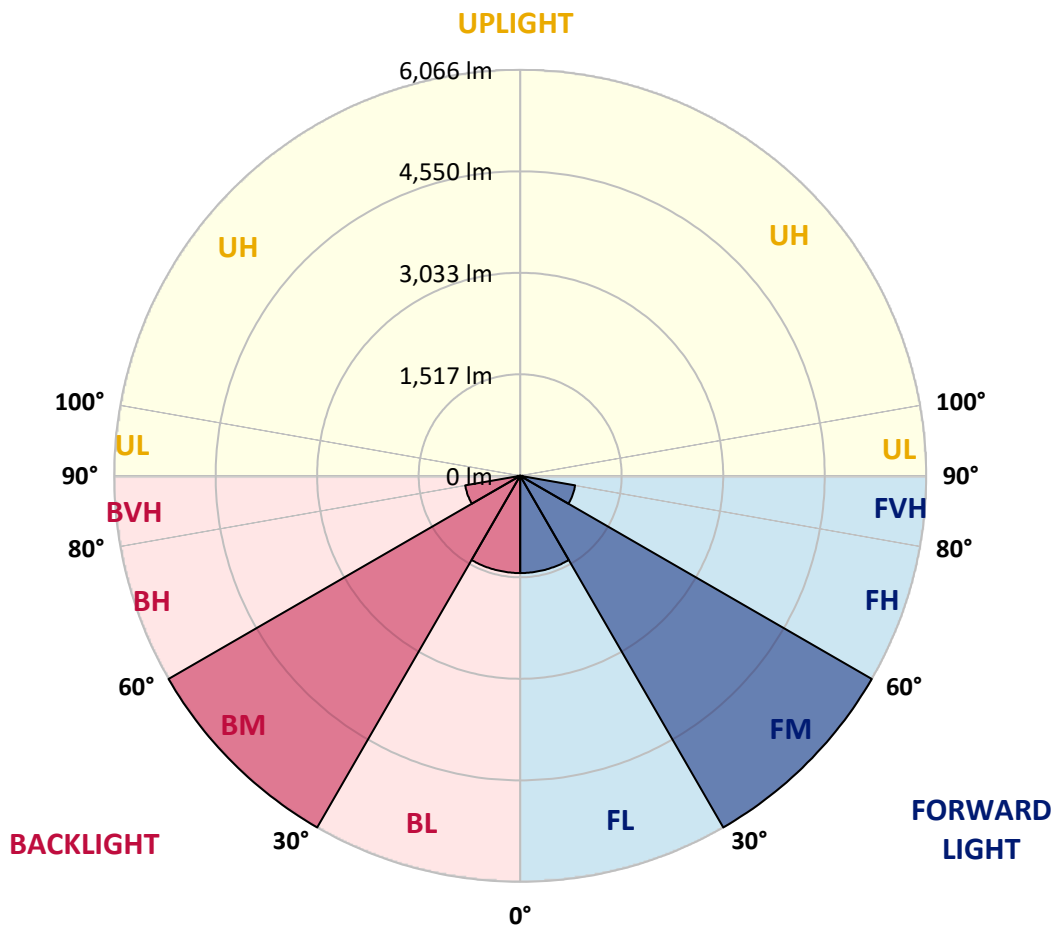
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.8	8.7			
FM (30°-60°)	6066.5	36.1			
FH (60°-80°)	833.9	5.0			G1/1800
FVH (80°-90°)	38.3	0.2			G1/100
BL (0°-30°)	1452.8	8.7	B3/2500		
BM (30°-60°)	6066.5	36.1	B4/8500		
BH (60°-80°)	833.9	5.0	B2/1000		G1/1800
BVH (80°-90°)	38.3	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5
2.5°	2811.7	2782.6	2793.0	2799.3	2826.3	2824.2	2818.0	2826.3	2834.7	2836.7	2832.6
5°	2809.7	2788.8	2797.2	2803.4	2830.5	2845.1	2840.9	2876.3	2901.3	2895.1	2926.3
7.5°	2793.0	2805.5	2795.1	2826.3	2849.2	2884.6	2922.1	2955.5	2986.7	3022.1	3028.4
10°	2830.5	2830.5	2849.2	2874.2	2934.6	2961.7	3015.9	3063.8	3124.2	3165.8	3149.2
12.5°	2870.1	2876.3	2876.3	2940.9	2990.9	3051.3	3101.3	3165.8	3251.2	3301.2	3326.2
15°	2909.6	2913.8	2934.6	3022.1	3097.1	3192.9	3238.7	3297.0	3344.9	3438.7	3440.7
17.5°	2945.0	2968.0	3030.4	3128.3	3222.1	3313.7	3386.6	3447.0	3488.7	3526.1	3517.8
20°	3078.3	3095.0	3159.6	3257.5	3397.0	3486.6	3511.6	3522.0	3549.1	3624.0	3601.1
22.5°	3207.5	3213.7	3274.1	3424.1	3522.0	3640.7	3667.8	3661.5	3671.9	3690.7	3724.0
25°	3340.8	3351.2	3434.5	3561.5	3699.0	3840.6	3863.5	3815.6	3801.1	3821.9	3824.0
27.5°	3511.6	3513.6	3619.9	3730.3	3886.5	4019.8	4055.2	4017.7	3948.9	3965.6	3992.7
30°	3728.2	3713.6	3819.8	3978.1	4142.6	4217.6	4278.0	4259.3	4184.3	4169.7	4146.8
32.5°	3978.1	3982.3	4078.1	4250.9	4359.3	4484.2	4548.8	4517.5	4469.6	4444.6	4459.2
35°	4330.1	4348.8	4413.4	4557.1	4732.1	4794.6	4896.6	4830.0	4705.0	4736.2	4763.3
37.5°	4619.6	4673.7	4794.6	4965.3	5069.5	5184.0	5221.5	5132.0	5040.3	5002.8	5092.4
40°	5063.2	5046.6	5179.9	5350.7	5504.8	5619.3	5571.4	5481.9	5254.8	5256.9	5281.9
42.5°	5444.4	5452.7	5554.8	5758.9	5969.2	6040.1	5888.0	5669.3	5417.3	5390.2	5444.4
45°	5765.1	5798.4	5856.8	6129.6	6335.8	6412.9	6131.7	5873.4	5536.0	5423.5	5513.1
47.5°	5879.7	5933.8	6060.9	6310.8	6514.9	6577.4	6352.5	5981.7	5646.4	5463.1	5511.0
50°	5896.3	5877.6	6085.9	6315.0	6494.1	6629.5	6431.6	6060.9	5619.3	5523.5	5508.9
52.5°	5440.2	5531.9	5754.7	6069.2	6431.6	6648.2	6502.4	6104.6	5656.8	5548.5	5513.1
55°	4403.0	4294.7	4700.8	5229.9	5896.3	6498.3	6477.4	6127.5	5679.7	5590.2	5542.3
57.5°	2457.7	2488.9	2718.0	3292.9	4153.1	5152.8	5758.9	5885.9	5669.3	5617.2	5642.2
60°	1137.2	1147.6	1245.5	1514.2	2047.4	2922.1	3719.8	4530.0	4902.9	4977.8	4977.8
62.5°	847.7	843.5	868.5	916.4	1028.9	1343.4	1793.3	2436.8	2949.2	3307.4	3401.2
65°	766.5	764.4	776.9	793.5	801.9	845.6	945.6	1143.4	1310.1	1405.9	1389.2
67.5°	670.7	668.6	672.7	683.2	697.7	720.6	745.6	787.3	845.6	841.4	831.0
70°	541.5	541.5	547.8	556.1	572.8	599.8	629.0	658.2	708.1	718.6	716.5
72.5°	399.9	393.6	406.1	422.8	439.5	472.8	504.0	531.1	566.5	576.9	572.8
75°	254.1	258.3	266.6	285.3	314.5	337.4	370.7	393.6	416.6	424.9	427.0
77.5°	141.6	145.8	160.4	183.3	212.4	237.4	266.6	285.3	299.9	302.0	304.1
80°	85.4	87.5	102.1	122.9	147.9	175.0	197.9	216.6	229.1	222.9	220.8
82.5°	52.1	54.2	66.6	85.4	106.2	127.0	152.0	168.7	181.2	172.9	164.5
85°	27.1	29.2	39.6	52.1	68.7	79.1	79.1	70.8	68.7	64.6	62.5
87.5°	8.3	8.3	10.4	12.5	10.4	12.5	14.6	16.7	16.7	18.7	16.7
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)