

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: P454831

Luminaire Tested: **GALN-SA6A-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454831
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-SA6A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23668 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

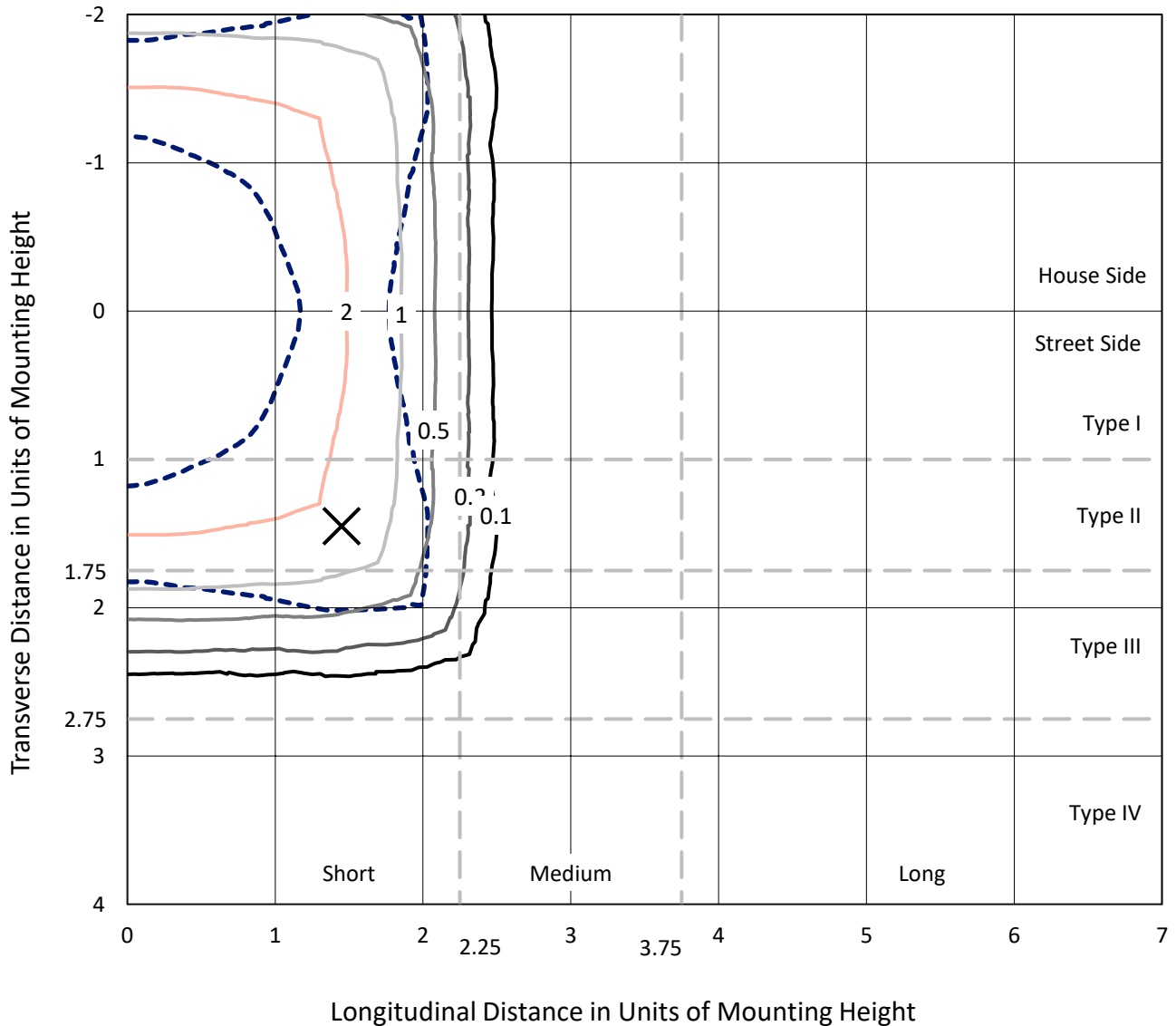
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

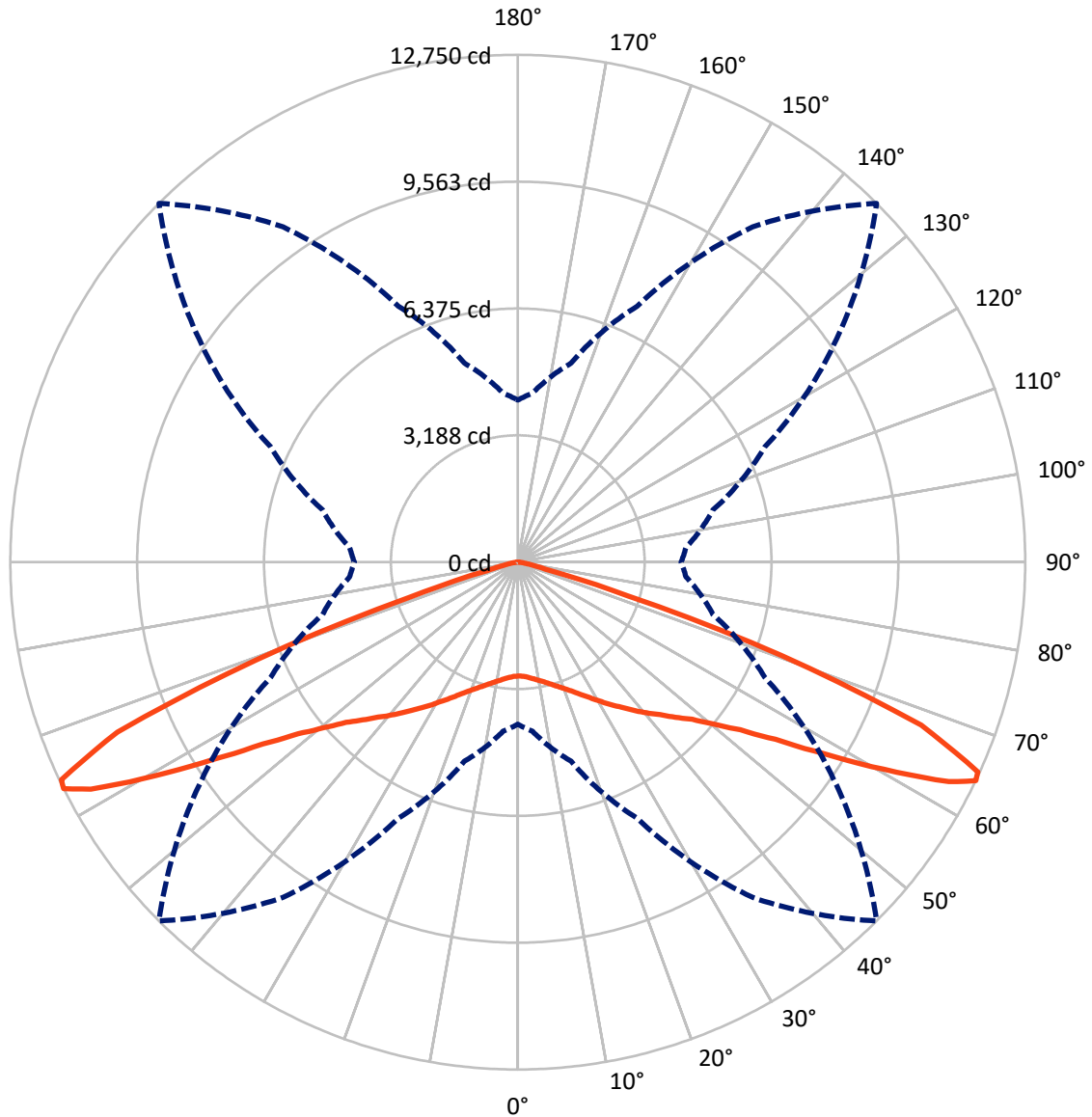
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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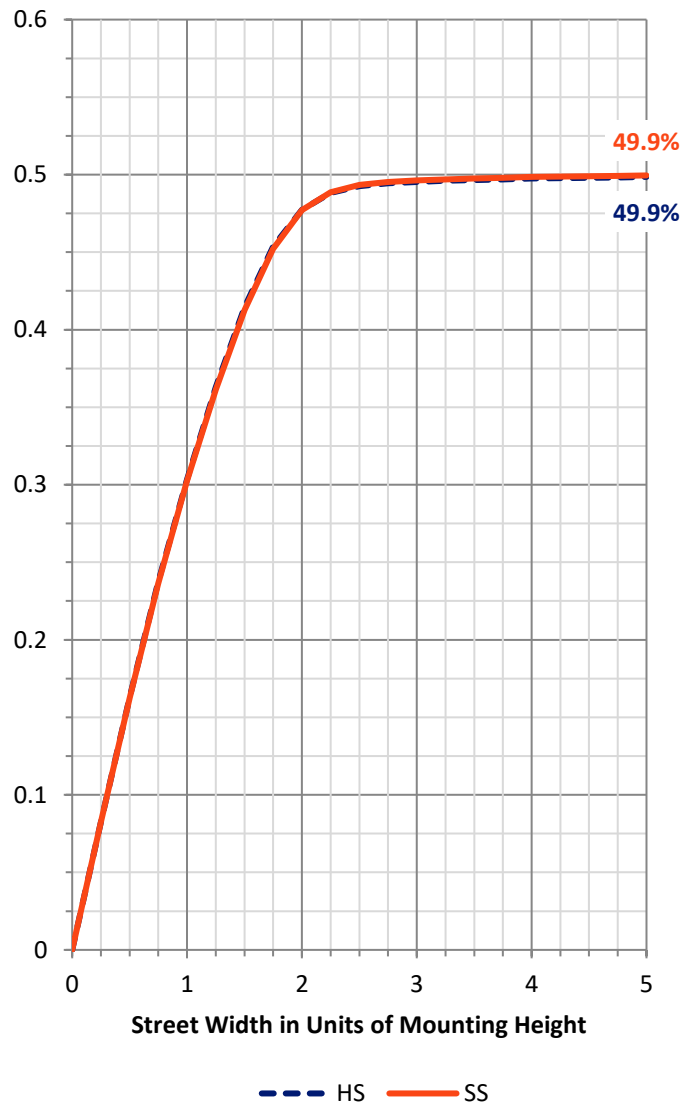
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11834.0	0.0	11834.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11834.0	0.0	11834.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23668.0	0.0	23668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.0	1.2
10°-20°	906.5	3.8
20°-30°	1713.1	7.2
30°-40°	2837.1	12.0
40°-50°	4429.2	18.7
50°-60°	6847.4	28.9
60°-70°	5904.4	24.9
70°-80°	669.1	2.8
80°-90°	80.2	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°	23668.0	100.0
0°-180°	23668.0	100.0

Coefficient of Utilization



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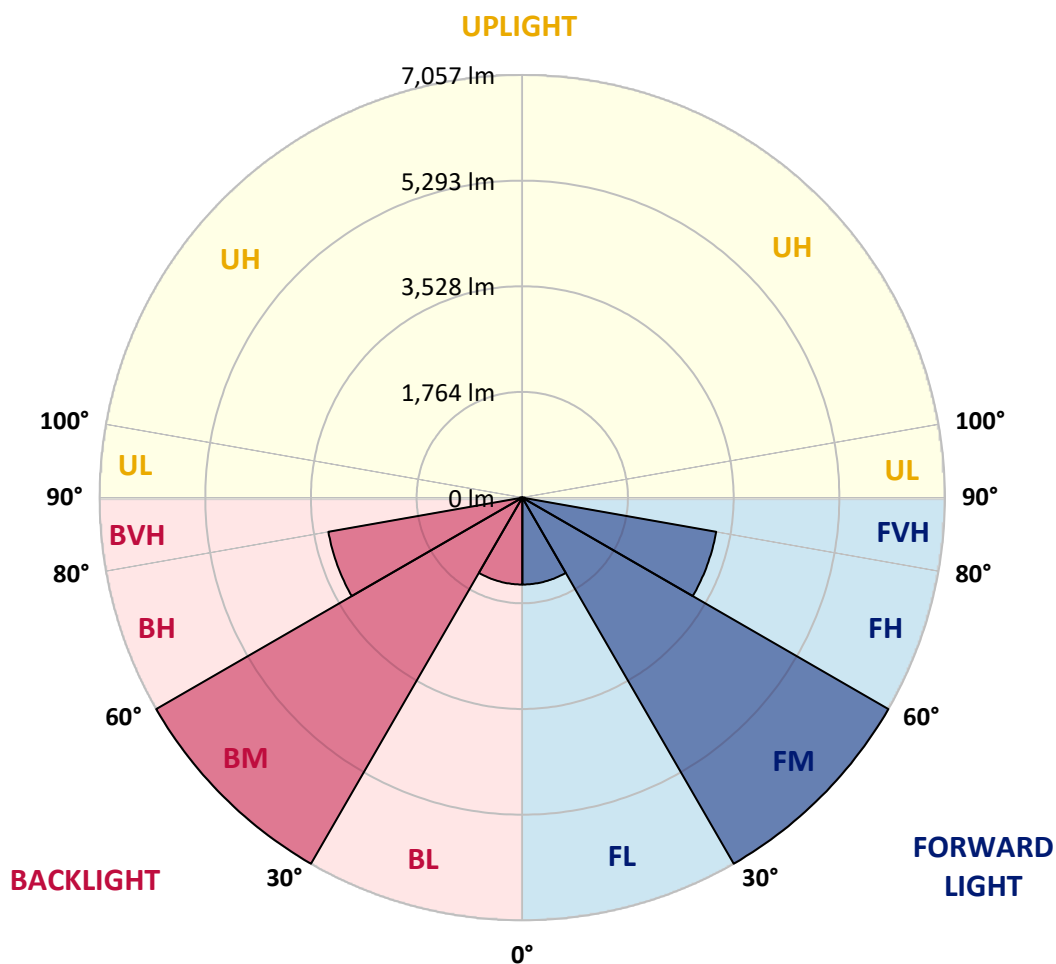
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1450.3	6.1			
FM	(30°-60°)	7056.8	29.8			
FH	(60°-80°)	3286.8	13.9			G2/5000
FVH	(80°-90°)	40.1	0.2			G1/100
BL	(0°-30°)	1450.3	6.1	B3/2500		
BM	(30°-60°)	7056.8	29.8	B4/8500		
BH	(60°-80°)	3286.8	13.9	B4/5000		G2/5000
BVH	(80°-90°)	40.1	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°	2860.7	2860.7	2860.7	2860.7	2860.7	2860.7	2860.7	2860.7	2860.7	2860.7	2860.7
2.5°	2872.0	2878.2	2873.2	2872.0	2870.7	2870.7	2870.7	2872.0	2877.0	2880.7	2878.2
5°	2908.3	2913.3	2910.8	2909.6	2908.3	2909.6	2907.1	2905.8	2909.6	2909.6	2908.3
7.5°	2953.4	2959.7	2957.2	2959.7	2961.0	2962.2	2955.9	2950.9	2949.7	2953.4	2950.9
10°	3014.9	3019.9	3021.1	3022.4	3024.9	3023.6	3016.1	3007.3	3006.1	3004.8	3003.6
12.5°	3083.8	3087.6	3088.8	3093.8	3097.6	3098.9	3090.1	3082.6	3070.0	3072.5	3067.5
15°	3161.5	3169.1	3167.8	3175.3	3185.4	3187.9	3179.1	3166.5	3155.3	3149.0	3145.2
17.5°	3256.8	3261.8	3259.3	3266.8	3279.4	3285.6	3278.1	3261.8	3250.5	3236.8	3229.2
20°	3369.6	3378.4	3380.9	3380.9	3392.2	3398.5	3387.2	3382.2	3364.6	3354.6	3348.3
22.5°	3497.5	3501.3	3508.8	3516.3	3527.6	3525.1	3521.3	3513.8	3497.5	3488.7	3478.7
25°	3641.7	3645.4	3664.2	3680.5	3684.3	3681.8	3676.8	3673.0	3658.0	3637.9	3630.4
27.5°	3809.6	3817.2	3842.2	3857.3	3857.3	3858.5	3848.5	3861.0	3828.4	3804.6	3802.1
30°	4020.2	4025.3	4046.6	4061.6	4054.1	4047.8	4045.3	4057.8	4022.7	3980.1	3970.1
32.5°	4228.3	4245.9	4264.7	4297.3	4271.0	4259.7	4257.2	4265.9	4225.8	4178.2	4164.4
35°	4451.5	4464.0	4499.1	4526.7	4502.9	4476.5	4487.8	4515.4	4467.8	4403.8	4401.3
37.5°	4698.4	4709.7	4754.8	4783.7	4766.1	4721.0	4739.8	4772.4	4724.8	4645.8	4629.5
40°	4955.4	4979.2	5035.6	5065.7	5036.9	4976.7	5011.8	5046.9	5004.3	4912.8	4876.4
42.5°	5243.7	5281.3	5362.8	5377.9	5322.7	5241.2	5302.7	5359.1	5329.0	5223.7	5209.9
45°	5581.0	5603.5	5703.8	5736.4	5659.9	5558.4	5634.9	5737.6	5715.1	5593.5	5567.2
47.5°	5958.3	5979.6	6083.6	6132.5	6036.0	5899.4	6037.3	6171.4	6157.6	6027.2	6014.7
50°	6404.6	6409.6	6553.7	6608.9	6512.4	6394.5	6517.4	6684.1	6628.9	6462.2	6459.7
52.5°	6893.5	6899.7	7081.5	7188.0	7134.1	7001.3	7146.7	7248.2	7107.8	6889.7	6873.4
55°	7317.2	7348.5	7596.7	7880.0	7954.0	7857.5	7901.3	7853.7	7507.7	7201.8	7154.2
57.5°	7490.2	7551.6	7928.9	8457.9	8939.3	9082.2	8743.7	8289.9	7666.9	7234.4	7188.0
60°	7067.7	7134.1	7719.6	8723.7	9952.2	10572.7	9621.2	8363.9	7304.6	6696.6	6623.9
62.5°	5659.9	5678.7	6539.9	8098.1	10542.6	12149.7	9991.1	7733.4	6250.4	5424.3	5395.4
64°	4072.9	4265.9	5178.6	7100.3	10284.4	12750.2	9777.9	6849.6	5077.0	4240.9	4105.5
65°	3046.2	3098.9	4174.4	6063.6	9829.3	12705.1	9364.3	6004.7	4204.5	3245.5	3095.1
67.5°	1150.8	1157.1	1540.7	3022.4	6997.5	10931.2	7146.7	3266.8	1771.3	1281.2	1234.8
70°	477.6	486.4	565.4	1016.7	3007.3	7018.8	3446.1	1178.4	648.1	525.3	517.7
72.5°	349.7	354.8	378.6	451.3	925.1	2882.0	1133.2	500.2	379.8	339.7	336.0
75°	274.5	277.0	294.6	332.2	431.2	798.5	471.3	343.5	289.6	260.7	258.2
77.5°	209.3	215.6	228.2	253.2	289.6	378.6	312.1	257.0	223.1	199.3	195.6
80°	144.2	151.7	175.5	185.5	194.3	245.7	213.1	194.3	174.2	145.4	136.6
82.5°	89.0	94.0	117.8	126.6	122.9	137.9	136.6	139.1	124.1	90.3	84.0
85°	46.4	48.9	63.9	66.4	61.4	56.4	70.2	81.5	76.5	51.4	50.1
87.5°	10.0	11.3	13.8	12.5	13.8	13.8	17.6	26.3	27.6	17.6	16.3
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)