

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: P528874

Luminaire Tested: **GALN-SA4A-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14840 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

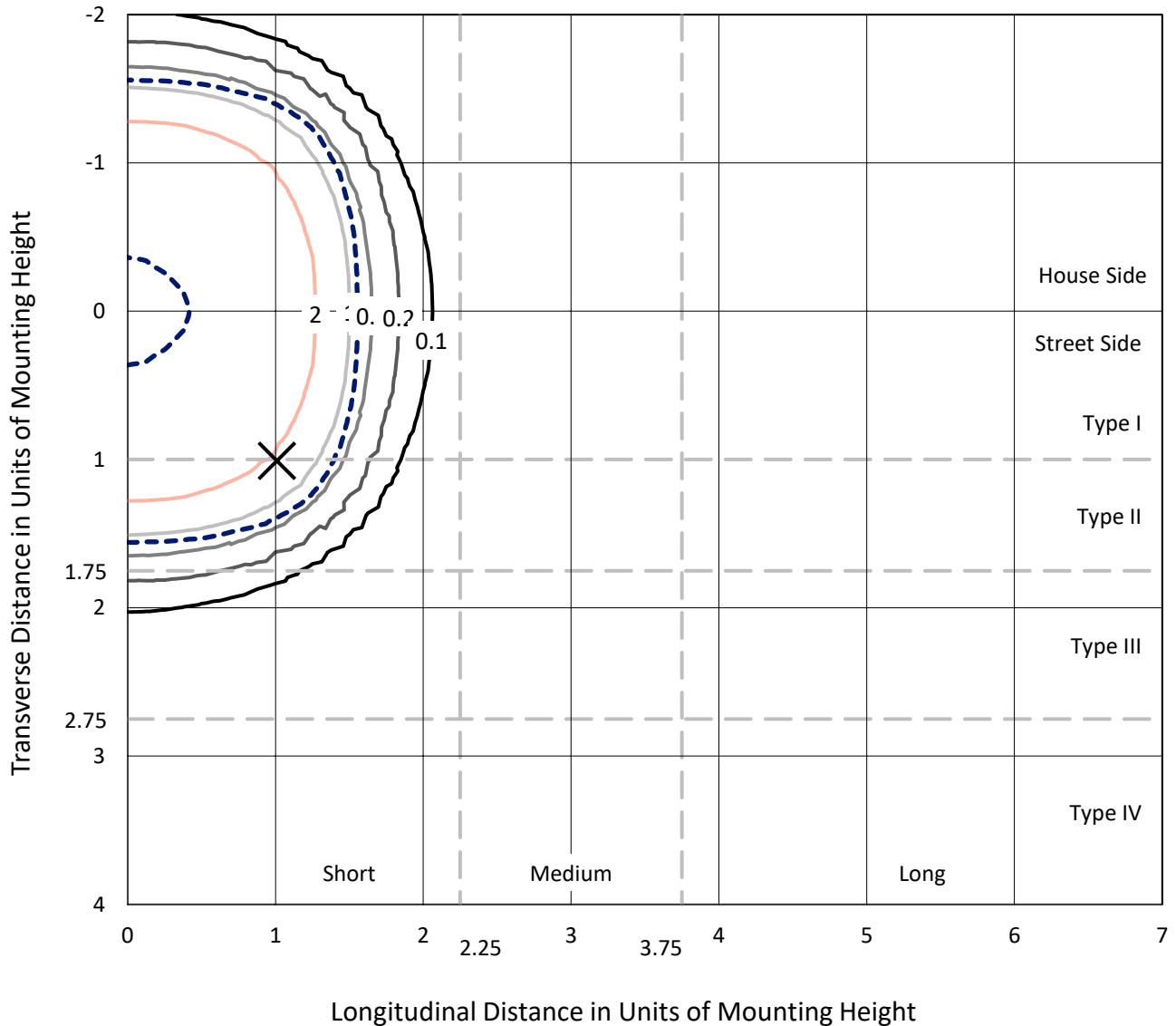
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

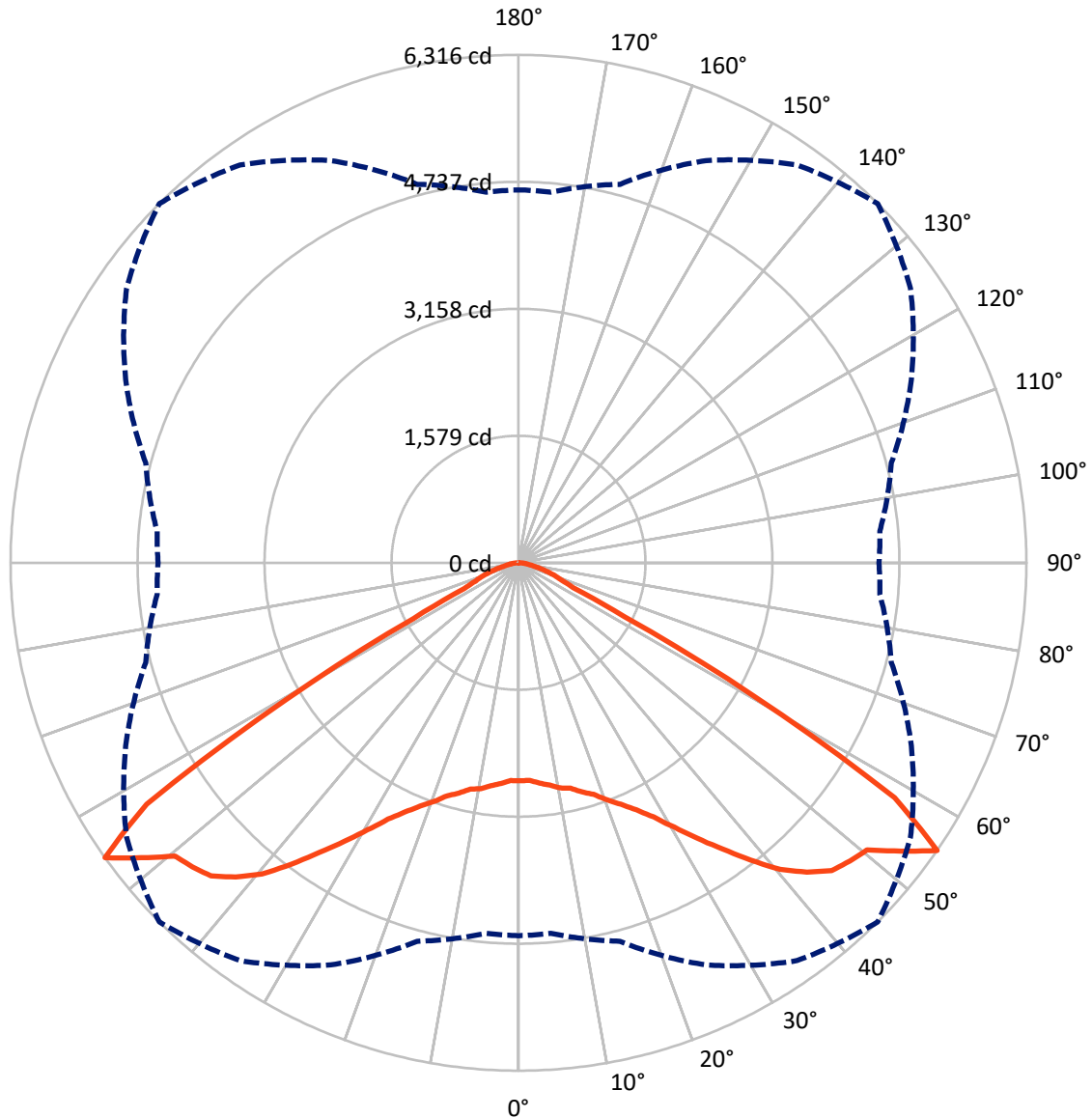
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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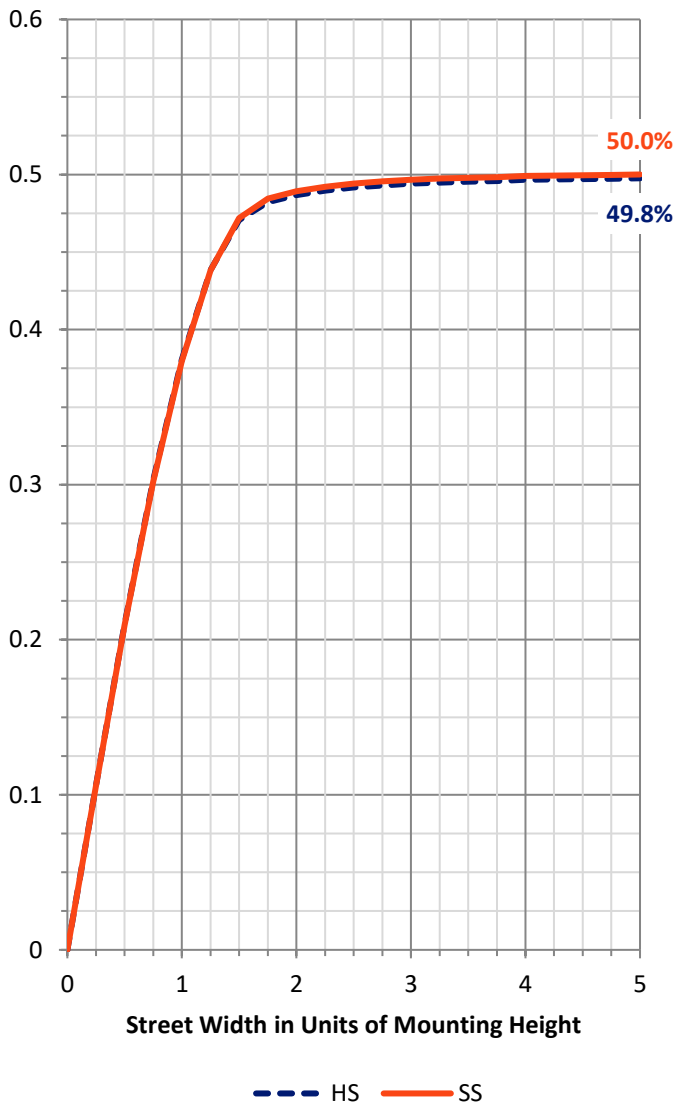
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7420.0	0.0	7420.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7420.0	0.0	7420.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14840.0	0.0	14840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	1.8
10°-20°	838.7	5.7
20°-30°	1563.9	10.5
30°-40°	2618.5	17.6
40°-50°	4074.6	27.5
50°-60°	4230.7	28.5
60°-70°	897.2	6.0
70°-80°	295.5	2.0
80°-90°	56.3	0.4
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°	14840.0	100.0
0°-180°	14840.0	100.0

Coefficient of Utilization



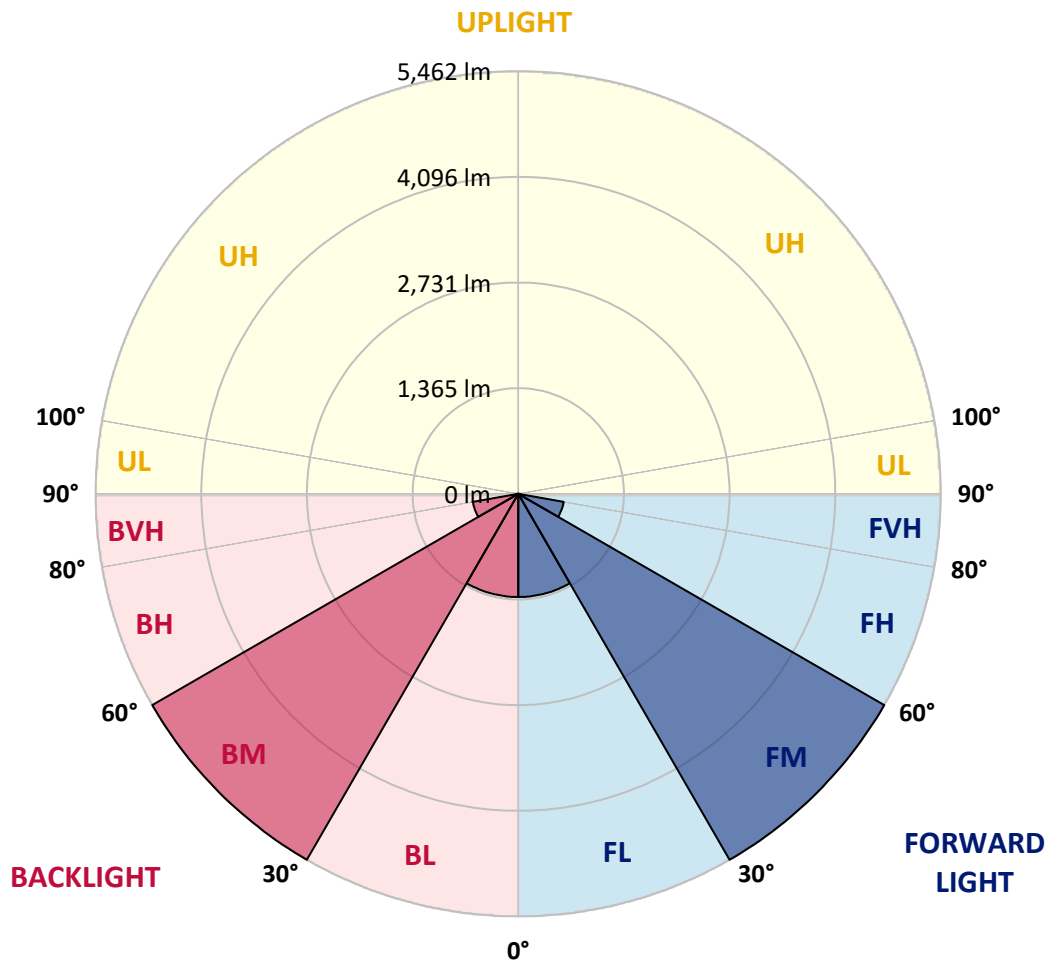
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1333.7	9.0			
FM	(30°-60°)	5461.9	36.8			
FH	(60°-80°)	596.3	4.0			G0/660
FVH	(80°-90°)	28.1	0.2			G1/100
BL	(0°-30°)	1333.7	9.0	B3/2500		
BM	(30°-60°)	5461.9	36.8	B4/8500		
BH	(60°-80°)	596.3	4.0	B2/1000		G0/660
BVH	(80°-90°)	28.1	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2709.6	2709.6	2709.6	2709.6	2709.6	2709.6	2709.6	2709.6	2709.6	2709.6	2709.6
2.5°	2741.8	2729.3	2707.8	2723.9	2736.5	2709.6	2720.3	2725.7	2722.1	2707.8	2713.1
5°	2781.3	2774.1	2756.2	2768.7	2752.6	2752.6	2741.8	2727.5	2749.0	2745.4	2754.4
7.5°	2781.3	2772.3	2808.2	2784.9	2792.1	2792.1	2774.1	2759.8	2770.5	2754.4	2745.4
10°	2836.9	2849.4	2833.3	2838.7	2835.1	2847.6	2820.7	2811.8	2802.8	2797.4	2786.7
12.5°	2903.2	2894.3	2899.6	2896.1	2908.6	2876.3	2860.2	2840.5	2856.6	2833.3	2849.4
15°	2957.0	2951.6	2957.0	2971.4	2958.8	2957.0	2928.3	2908.6	2883.5	2888.9	2863.8
17.5°	3030.5	3025.2	3027.0	3039.5	3037.7	3028.8	3007.2	2969.6	2960.6	2946.3	2930.1
20°	3139.9	3131.0	3127.4	3132.8	3141.7	3148.9	3105.9	3091.5	3061.0	3037.7	3010.8
22.5°	3233.2	3229.6	3243.9	3220.6	3240.4	3261.9	3220.6	3213.5	3138.1	3125.6	3096.9
25°	3362.3	3356.9	3348.0	3382.0	3405.3	3403.5	3364.1	3324.6	3267.3	3252.9	3252.9
27.5°	3498.6	3468.1	3514.7	3523.7	3564.9	3577.5	3543.4	3486.0	3432.2	3401.7	3408.9
30°	3668.9	3640.2	3651.0	3715.6	3769.4	3816.0	3729.9	3645.6	3570.3	3516.5	3507.5
32.5°	3839.3	3810.6	3842.9	3905.6	4013.2	4083.2	3998.9	3851.8	3764.0	3685.1	3701.2
35°	3977.4	3998.9	4050.9	4145.9	4257.1	4370.1	4235.6	4122.6	3997.1	3909.2	3921.8
37.5°	4199.7	4266.1	4307.3	4416.7	4574.5	4691.1	4551.2	4404.2	4269.7	4154.9	4115.5
40°	4490.2	4535.1	4581.7	4710.8	4897.3	5013.9	4881.2	4689.3	4556.6	4438.2	4432.9
42.5°	4809.4	4852.5	4900.9	5058.7	5169.9	5257.7	5135.8	5033.6	4886.5	4793.3	4787.9
45°	5180.6	5150.1	5203.9	5307.9	5401.2	5458.6	5379.7	5329.5	5223.7	5137.6	5128.6
47.5°	5428.1	5401.2	5498.0	5591.3	5605.6	5542.9	5559.0	5605.6	5494.4	5352.8	5397.6
50°	5571.5	5571.5	5636.1	5722.2	5695.3	5614.6	5741.9	5745.5	5634.3	5508.8	5508.8
52.5°	5322.3	5377.9	5560.8	5842.3	5932.0	5955.3	5926.6	5804.7	5514.2	5257.7	5245.2
55°	4637.3	4624.7	4872.2	5517.8	6039.6	6315.7	5949.9	5388.6	4798.7	4510.0	4481.3
57.5°	3016.2	3030.5	3400.0	4058.1	4999.5	5514.2	4897.3	4108.3	3400.0	3001.9	3039.5
60°	1357.5	1405.9	1630.0	2121.4	2930.1	3349.7	2937.3	2229.0	1710.7	1484.8	1504.5
62.5°	780.1	789.0	798.0	946.8	1248.1	1475.8	1296.5	1000.6	882.3	842.8	842.8
65°	658.1	652.7	654.5	667.1	699.4	746.0	726.3	699.4	702.9	699.4	694.0
67.5°	559.5	566.7	561.3	570.2	572.0	579.2	591.8	602.5	604.3	607.9	604.3
70°	459.1	460.9	464.4	471.6	473.4	478.8	496.7	505.7	511.1	511.1	518.2
72.5°	351.5	349.7	353.3	360.4	369.4	371.2	387.3	399.9	407.1	398.1	399.9
75°	231.3	233.1	238.5	243.9	256.4	269.0	274.4	286.9	288.7	292.3	283.3
77.5°	138.1	141.7	147.0	157.8	168.6	179.3	191.9	200.8	204.4	200.8	190.1
80°	89.7	89.7	96.8	105.8	118.4	127.3	134.5	141.7	147.0	141.7	138.1
82.5°	55.6	55.6	64.6	75.3	84.3	89.7	100.4	109.4	114.8	111.2	105.8
85°	28.7	30.5	37.7	46.6	53.8	57.4	55.6	50.2	44.8	43.0	39.5
87.5°	9.0	9.0	10.8	10.8	9.0	9.0	10.8	9.0	10.8	10.8	10.8
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)