

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: P453472

Luminaire Tested: **GALN-SA4C-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26132 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 213
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

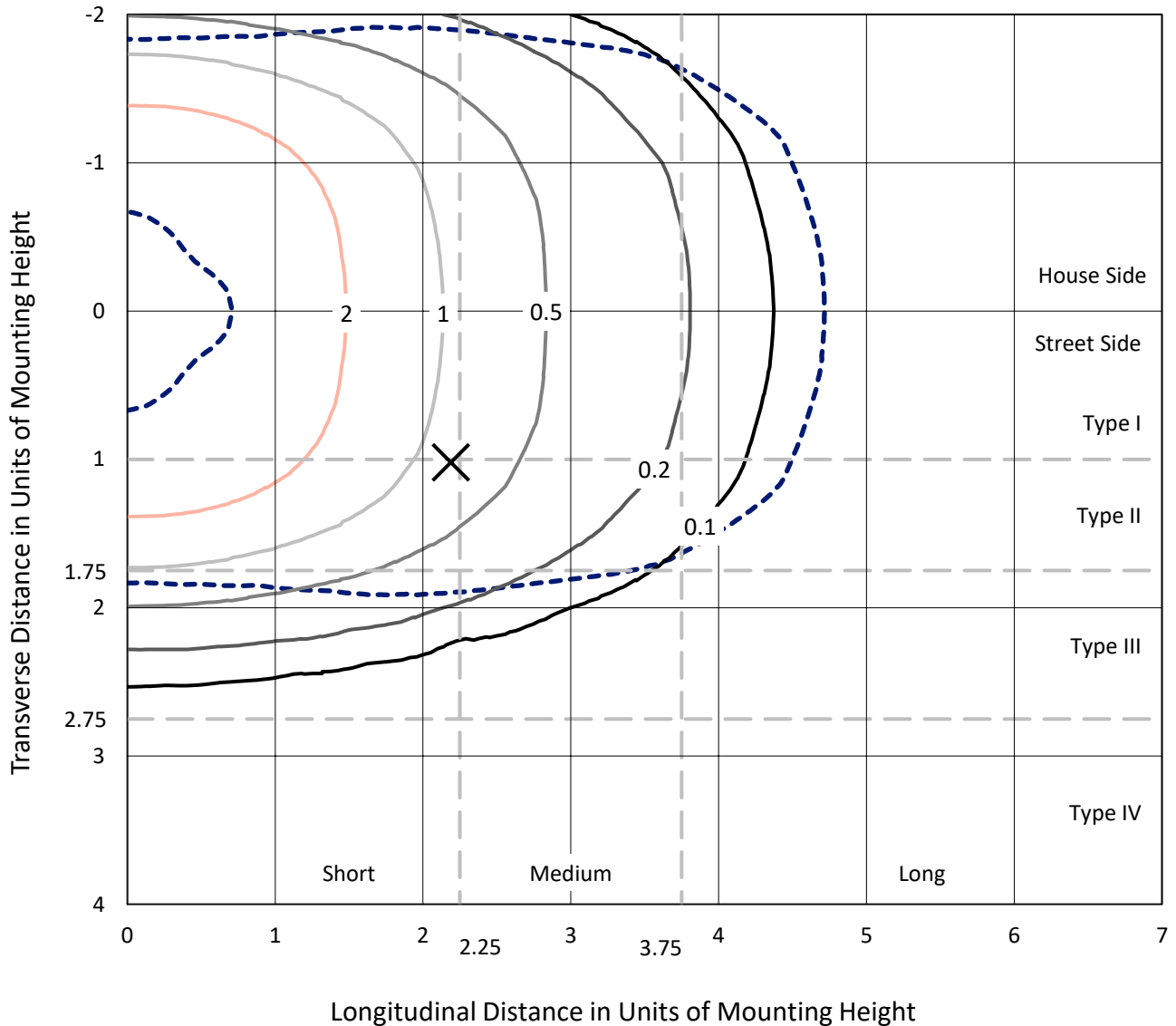




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Iso-Footcandle Lines of Horizontal Illumination

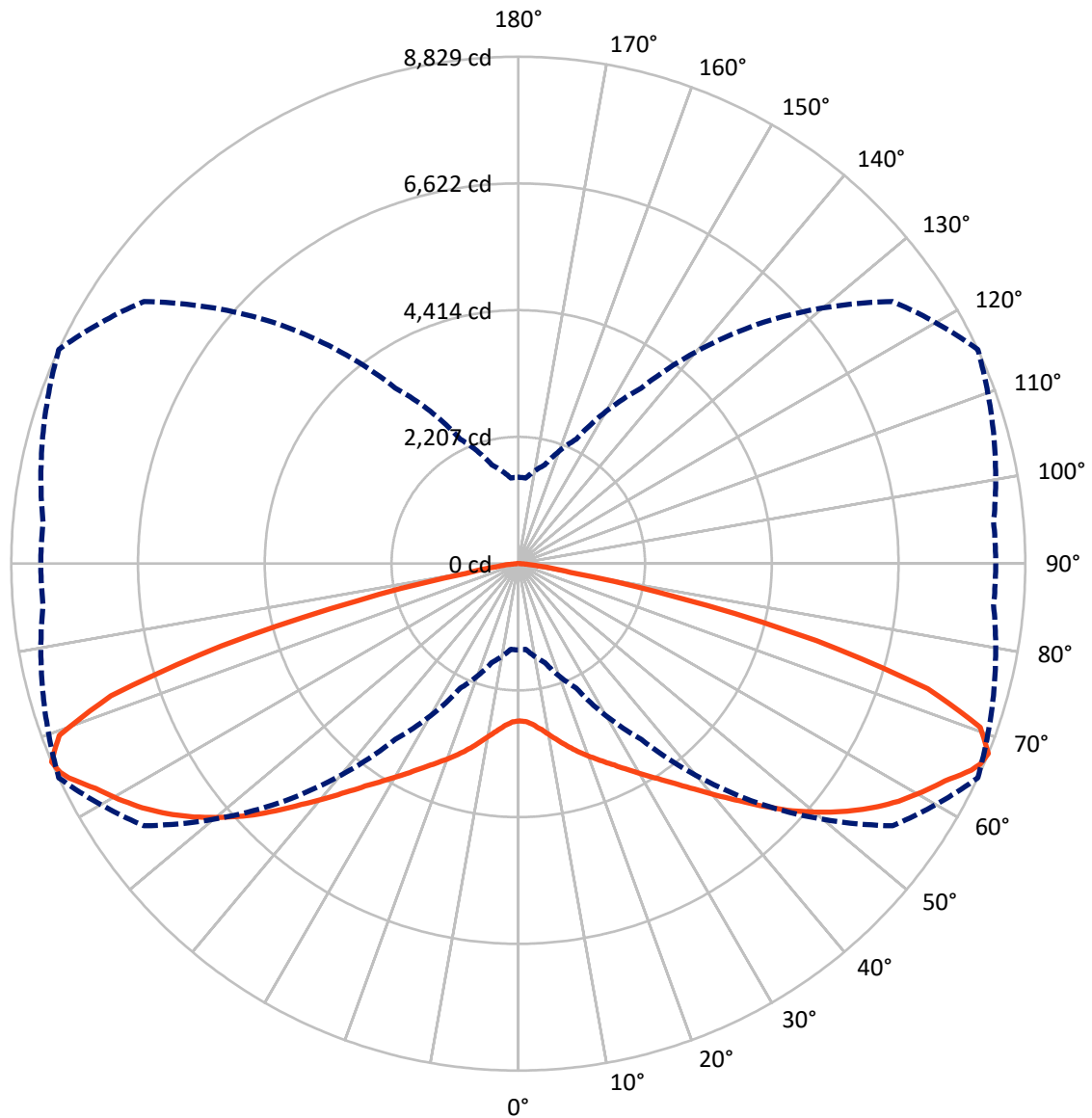
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13066.0	0.0	13066.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13066.0	0.0	13066.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26132.0	0.0	26132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	1.0
10°-20°	903.5	3.5
20°-30°	1767.3	6.8
30°-40°	3006.0	11.5
40°-50°	4757.5	18.2
50°-60°	6308.4	24.1
60°-70°	5950.8	22.8
70°-80°	2941.8	11.3
80°-90°	226.7	0.9
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°	26132.0	100.0
0°-180°	26132.0	100.0

Coefficient of Utilization



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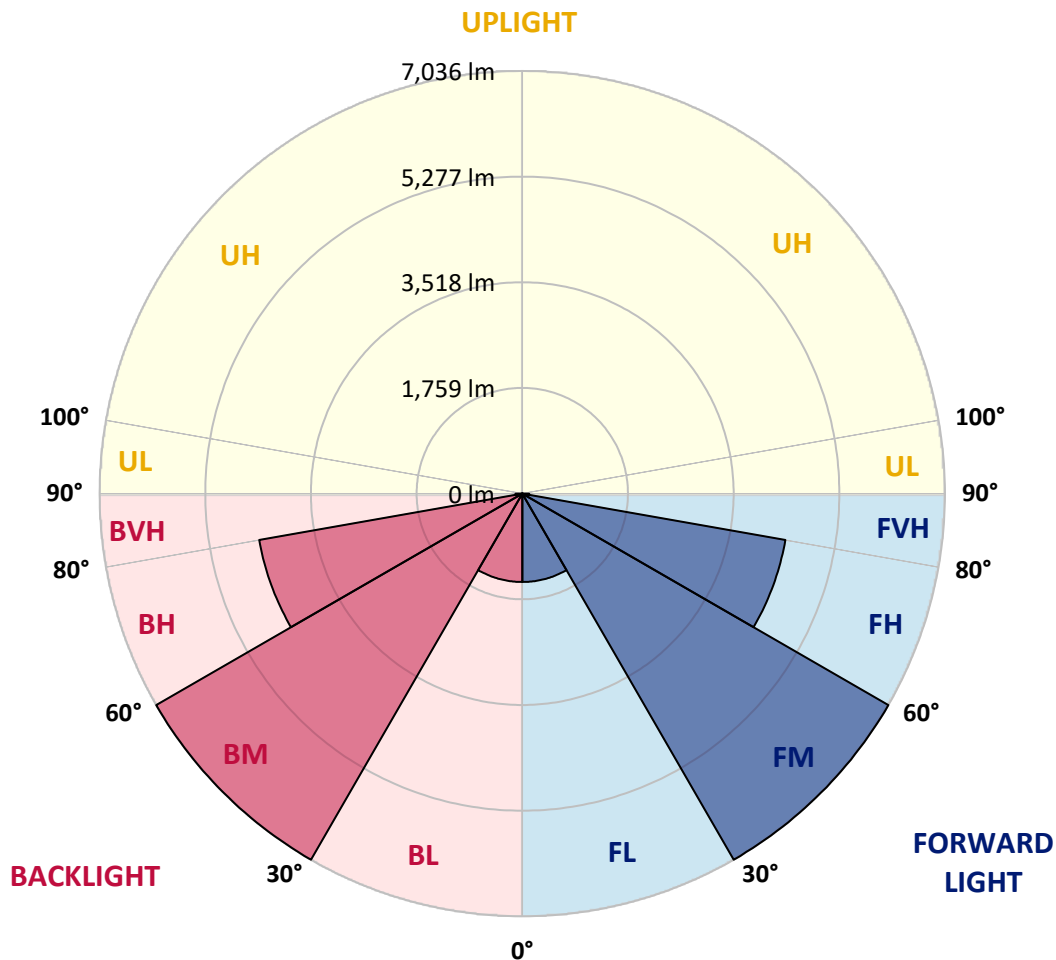
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1470.4	5.6			
FM	(30°-60°)	7036.0	26.9			
FH	(60°-80°)	4446.3	17.0			G2/5000
FVH	(80°-90°)	113.4	0.4			G2/225
BL	(0°-30°)	1470.4	5.6	B3/2500		
BM	(30°-60°)	7036.0	26.9	B4/8500		
BH	(60°-80°)	4446.3	17.0	B4/5000		G4/5000
BVH	(80°-90°)	113.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2737.1	2737.1	2737.1	2737.1	2737.1	2737.1	2737.1	2737.1	2737.1	2737.1	2737.1
2.5°	2723.1	2725.9	2728.7	2732.9	2738.5	2746.9	2752.5	2756.7	2767.9	2769.3	2767.9
5°	2713.3	2716.1	2723.1	2735.7	2753.9	2779.1	2798.7	2822.5	2840.7	2853.3	2850.5
7.5°	2711.9	2717.5	2728.7	2755.3	2790.3	2833.7	2878.5	2919.1	2954.1	2982.1	2977.9
10°	2734.3	2741.3	2759.5	2798.7	2853.3	2916.3	2979.3	3039.5	3089.9	3126.3	3138.9
12.5°	2772.1	2777.7	2811.3	2870.1	2948.5	3026.9	3098.3	3172.5	3242.5	3304.1	3304.1
15°	2837.9	2847.7	2889.7	2975.1	3071.7	3162.7	3235.5	3313.9	3389.5	3459.5	3480.5
17.5°	2928.9	2942.9	3005.9	3115.1	3238.3	3322.3	3390.9	3455.3	3521.1	3588.3	3598.1
20°	3053.5	3067.5	3151.5	3283.1	3428.7	3529.5	3575.7	3591.1	3623.3	3687.7	3696.1
22.5°	3222.9	3236.9	3330.7	3479.1	3641.5	3750.7	3770.3	3733.9	3725.5	3775.9	3781.5
25°	3414.7	3427.3	3535.1	3694.7	3862.7	3981.7	3976.1	3886.5	3836.1	3866.9	3875.3
27.5°	3630.3	3648.5	3757.7	3922.9	4104.9	4209.9	4193.1	4062.9	3955.1	3949.5	3952.3
30°	3906.1	3925.7	4029.3	4187.5	4366.8	4463.4	4428.4	4253.3	4086.7	4030.7	4030.7
32.5°	4197.3	4246.3	4351.4	4516.6	4656.6	4726.6	4673.4	4463.4	4242.1	4163.7	4159.5
35°	4576.8	4603.4	4707.0	4868.0	4973.0	5027.6	4925.4	4700.0	4445.2	4352.8	4340.2
37.5°	4947.8	4970.2	5090.6	5244.6	5372.0	5369.2	5230.6	4981.4	4697.2	4593.6	4585.2
40°	5327.2	5351.0	5488.2	5629.6	5757.0	5745.8	5577.8	5299.2	4996.8	4880.6	4903.0
42.5°	5656.2	5682.8	5838.2	6039.8	6154.6	6151.8	5957.2	5643.6	5328.6	5225.0	5244.6
45°	5955.8	5979.6	6160.2	6391.2	6559.2	6580.2	6367.4	6035.6	5712.2	5579.2	5584.8
47.5°	6167.2	6212.0	6401.0	6665.6	6893.8	6968.0	6759.4	6434.6	6062.2	5923.6	5932.0
50°	6328.2	6356.2	6562.0	6863.0	7151.5	7305.5	7137.5	6804.2	6412.2	6265.2	6284.8
52.5°	6347.8	6381.4	6605.4	6952.6	7322.3	7556.1	7473.5	7165.5	6769.2	6618.0	6660.0
55°	6188.2	6207.8	6475.2	6896.6	7389.5	7742.3	7763.3	7501.5	7109.5	6994.6	7022.6
57.5°	5733.2	5783.6	6122.4	6634.8	7297.1	7841.7	7980.3	7806.7	7453.9	7340.5	7385.3
60°	4987.0	5037.4	5377.6	6027.2	6948.4	7795.5	8159.5	8076.9	7766.1	7675.1	7698.9
62.5°	3907.5	3903.3	4324.8	5121.4	6255.4	7568.7	8292.5	8337.3	8074.1	7959.3	7995.7
65°	2532.7	2545.3	2952.7	3810.9	5209.6	6991.8	8321.9	8669.1	8376.5	8202.9	8229.5
66°	2037.1	2074.9	2420.7	3211.7	4676.2	6613.8	8233.7	8767.1	8468.9	8258.9	8271.5
67.5°	1503.7	1496.7	1780.9	2391.3	3733.9	5895.6	7957.9	8828.7	8573.9	8309.3	8314.9
70°	858.2	856.8	957.6	1313.2	2195.3	4151.1	6707.6	8533.3	8786.7	8491.3	8475.9
72.5°	627.2	623.0	637.0	725.2	1071.0	2095.9	4627.2	7458.1	8677.5	8461.9	8418.5
75°	526.4	523.6	520.8	532.0	600.6	949.2	2455.7	5365.0	7529.5	7942.5	7897.7
77.5°	429.8	429.8	431.2	428.4	431.2	499.8	1017.8	2875.7	4585.2	5118.6	5243.2
80°	336.0	334.6	358.4	348.6	326.2	320.6	450.8	925.4	1521.9	1513.5	1248.8
82.5°	247.8	231.0	273.0	266.0	240.8	204.4	263.2	394.8	508.2	330.4	245.0
85°	156.8	155.4	193.2	176.4	147.0	96.6	126.0	169.4	210.0	127.4	103.6
87.5°	28.0	26.6	61.6	44.8	44.8	28.0	35.0	46.2	68.6	47.6	35.0
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)