

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: P453704

Luminaire Tested: **GALN-SA4D-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453704
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-SA4D-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28755 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

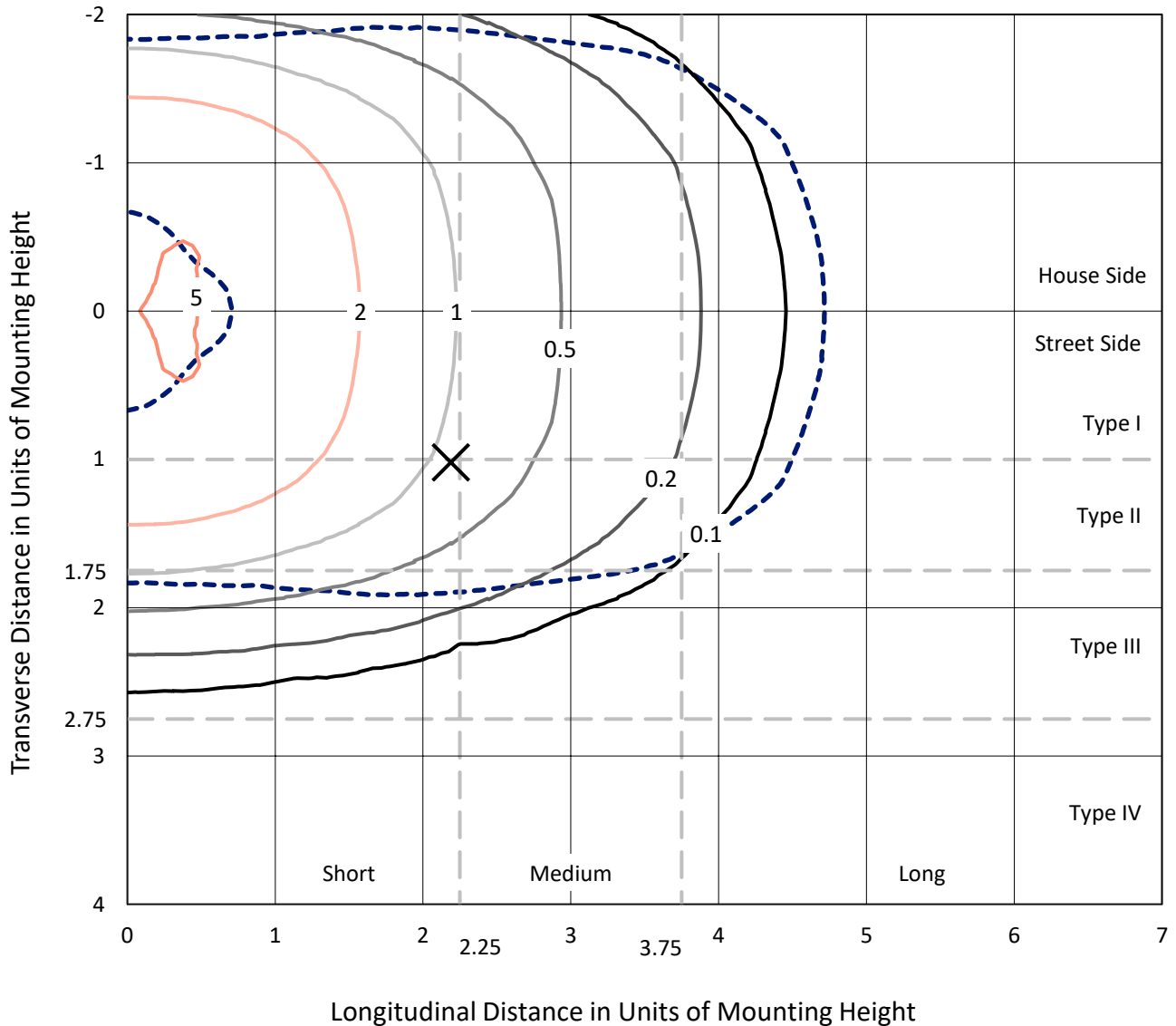
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

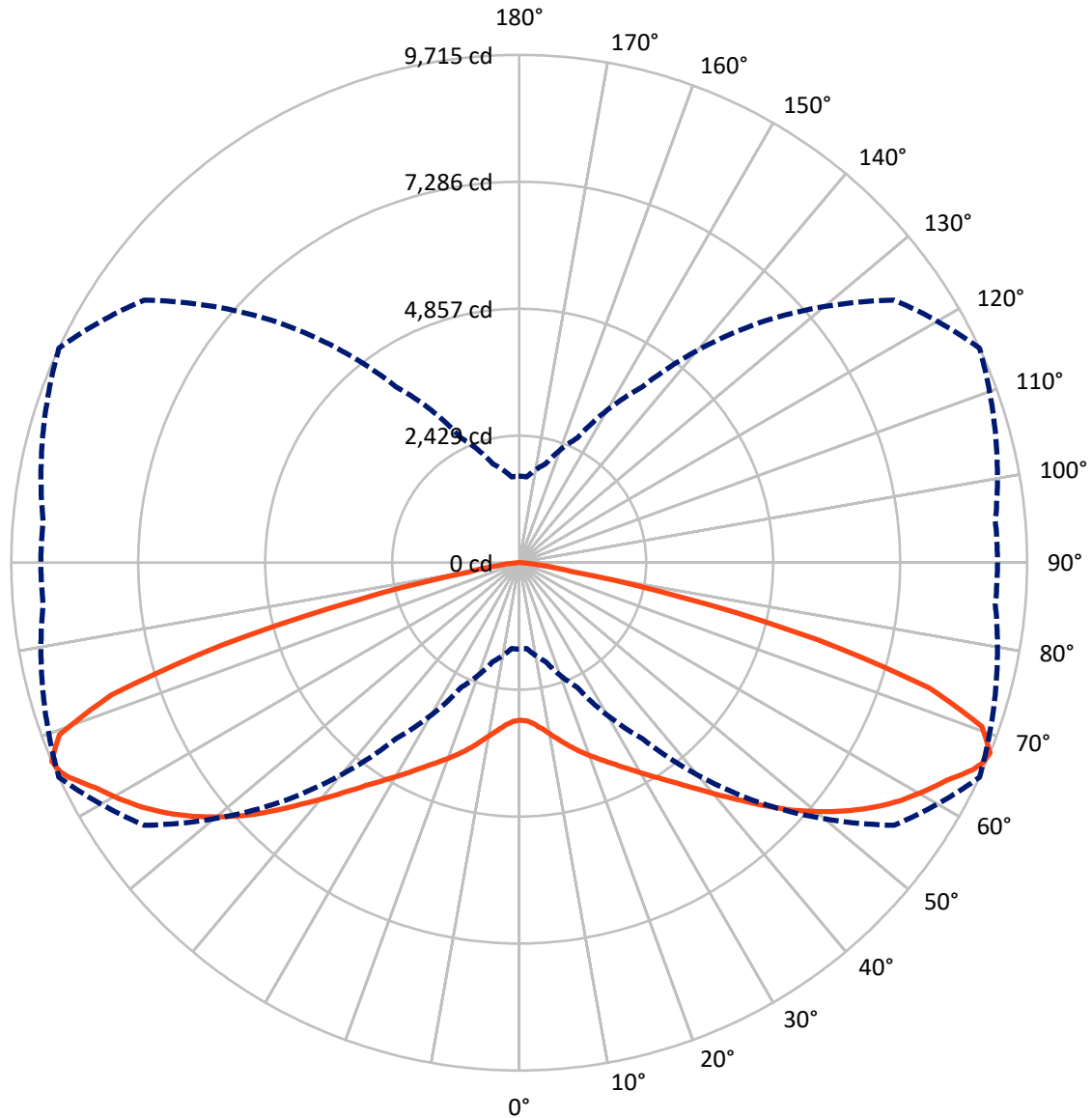
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	14377.5	0.0	14377.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14377.5	0.0	14377.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28755.0	0.0	28755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.1	1.0
10°-20°	994.2	3.5
20°-30°	1944.7	6.8
30°-40°	3307.7	11.5
40°-50°	5235.1	18.2
50°-60°	6941.6	24.1
60°-70°	6548.1	22.8
70°-80°	3237.1	11.3
80°-90°	249.5	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°	28755.0	100.0
0°-180°	28755.0	100.0

Coefficient of Utilization



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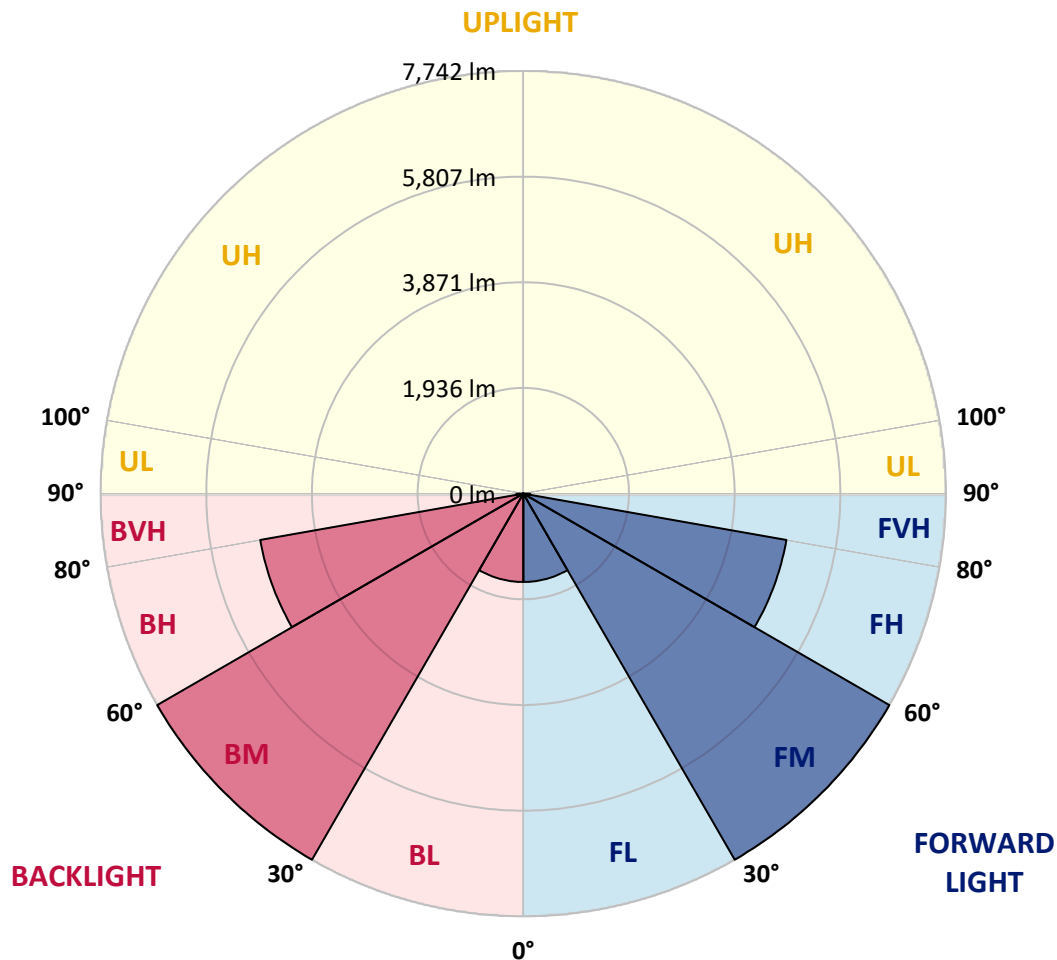
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1618.0	5.6			
FM	(30°-60°)	7742.2	26.9			
FH	(60°-80°)	4892.6	17.0			G2/5000
FVH	(80°-90°)	124.7	0.4			G2/225
BL	(0°-30°)	1618.0	5.6	B3/2500		
BM	(30°-60°)	7742.2	26.9	B4/8500		
BH	(60°-80°)	4892.6	17.0	B4/5000		G4/5000
BVH	(80°-90°)	124.7	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°	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8
2.5°	2996.4	2999.5	3002.6	3007.2	3013.4	3022.6	3028.8	3033.4	3045.7	3047.3	3045.7
5°	2985.6	2988.7	2996.4	3010.3	3030.3	3058.0	3079.6	3105.8	3125.8	3139.7	3136.6
7.5°	2984.1	2990.3	3002.6	3031.9	3070.4	3118.1	3167.4	3212.1	3250.6	3281.4	3276.8
10°	3008.8	3016.5	3036.5	3079.6	3139.7	3209.0	3278.4	3344.6	3400.1	3440.1	3454.0
12.5°	3050.3	3056.5	3093.5	3158.2	3244.5	3330.7	3409.3	3491.0	3568.0	3635.8	3635.8
15°	3122.8	3133.5	3179.8	3273.7	3380.0	3480.2	3560.3	3646.6	3729.7	3806.8	3829.9
17.5°	3222.9	3238.3	3307.6	3427.8	3563.4	3655.8	3731.3	3802.1	3874.6	3948.5	3959.3
20°	3360.0	3375.4	3467.8	3612.7	3772.9	3883.8	3934.6	3951.6	3987.0	4057.9	4067.1
22.5°	3546.4	3561.8	3665.0	3828.3	4007.0	4127.2	4148.8	4108.7	4099.5	4154.9	4161.1
25°	3757.5	3771.3	3890.0	4065.6	4250.5	4381.4	4375.2	4276.6	4221.2	4255.1	4264.3
27.5°	3994.7	4014.7	4134.9	4316.7	4517.0	4632.5	4614.0	4470.8	4352.1	4346.0	4349.1
30°	4298.2	4319.8	4433.8	4607.9	4805.1	4911.4	4872.9	4680.3	4497.0	4435.3	4435.3
32.5°	4618.7	4672.6	4788.1	4969.9	5124.0	5201.0	5142.5	4911.4	4668.0	4581.7	4577.1
35°	5036.2	5065.4	5179.4	5356.6	5472.1	5532.2	5419.8	5171.7	4891.3	4789.7	4775.8
37.5°	5444.4	5469.1	5601.5	5771.0	5911.2	5908.1	5755.6	5481.4	5168.6	5054.6	5045.4
40°	5861.9	5888.1	6039.1	6194.7	6334.9	6322.5	6137.7	5831.1	5498.3	5370.5	5395.1
42.5°	6223.9	6253.2	6424.2	6646.1	6772.4	6769.3	6555.2	6210.1	5863.4	5749.4	5771.0
45°	6553.6	6579.8	6778.5	7032.7	7217.6	7240.7	7006.6	6641.4	6285.6	6139.2	6145.4
47.5°	6786.3	6835.6	7043.5	7334.7	7585.8	7667.5	7437.9	7080.5	6670.7	6518.2	6527.4
50°	6963.4	6994.2	7220.7	7551.9	7869.3	8038.7	7853.9	7487.2	7055.9	6894.1	6915.7
52.5°	6985.0	7022.0	7268.5	7650.5	8057.2	8314.5	8223.6	7884.7	7448.7	7282.3	7328.5
55°	6809.4	6830.9	7125.2	7588.9	8131.2	8519.4	8542.5	8254.4	7823.1	7696.7	7727.5
57.5°	6308.7	6364.1	6737.0	7300.8	8029.5	8628.8	8781.3	8590.3	8202.0	8077.3	8126.6
60°	5487.5	5543.0	5917.4	6632.2	7645.9	8577.9	8978.5	8887.6	8545.6	8445.5	8471.6
62.5°	4299.8	4295.1	4758.8	5635.4	6883.3	8328.4	9124.9	9174.1	8884.5	8758.2	8798.2
65°	2786.9	2800.8	3249.1	4193.5	5732.5	7693.7	9157.2	9539.3	9217.3	9026.3	9055.5
66°	2241.5	2283.1	2663.7	3534.1	5145.5	7277.7	9060.1	9647.1	9319.0	9087.9	9101.7
67.5°	1654.6	1646.9	1959.6	2631.3	4108.7	6487.4	8756.7	9714.9	9434.5	9143.3	9149.5
70°	944.4	942.8	1053.8	1445.1	2415.6	4567.8	7380.9	9389.8	9668.7	9343.6	9326.7
72.5°	690.2	685.6	701.0	798.0	1178.5	2306.2	5091.6	8206.7	9548.5	9311.3	9263.5
75°	579.3	576.2	573.1	585.4	660.9	1044.5	2702.2	5903.5	8285.2	8739.7	8690.4
77.5°	473.0	473.0	474.5	471.4	474.5	550.0	1120.0	3164.3	5045.4	5632.4	5769.5
80°	369.7	368.2	394.4	383.6	359.0	352.8	496.1	1018.3	1674.6	1665.4	1374.2
82.5°	272.7	254.2	300.4	292.7	265.0	224.9	289.6	434.4	559.2	363.6	269.6
85°	172.5	171.0	212.6	194.1	161.8	106.3	138.7	186.4	231.1	140.2	114.0
87.5°	30.8	29.3	67.8	49.3	49.3	30.8	38.5	50.8	75.5	52.4	38.5
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)