

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: P452776

Luminaire Tested: **GALN-SA3D-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452776
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-SA3D-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 21699 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

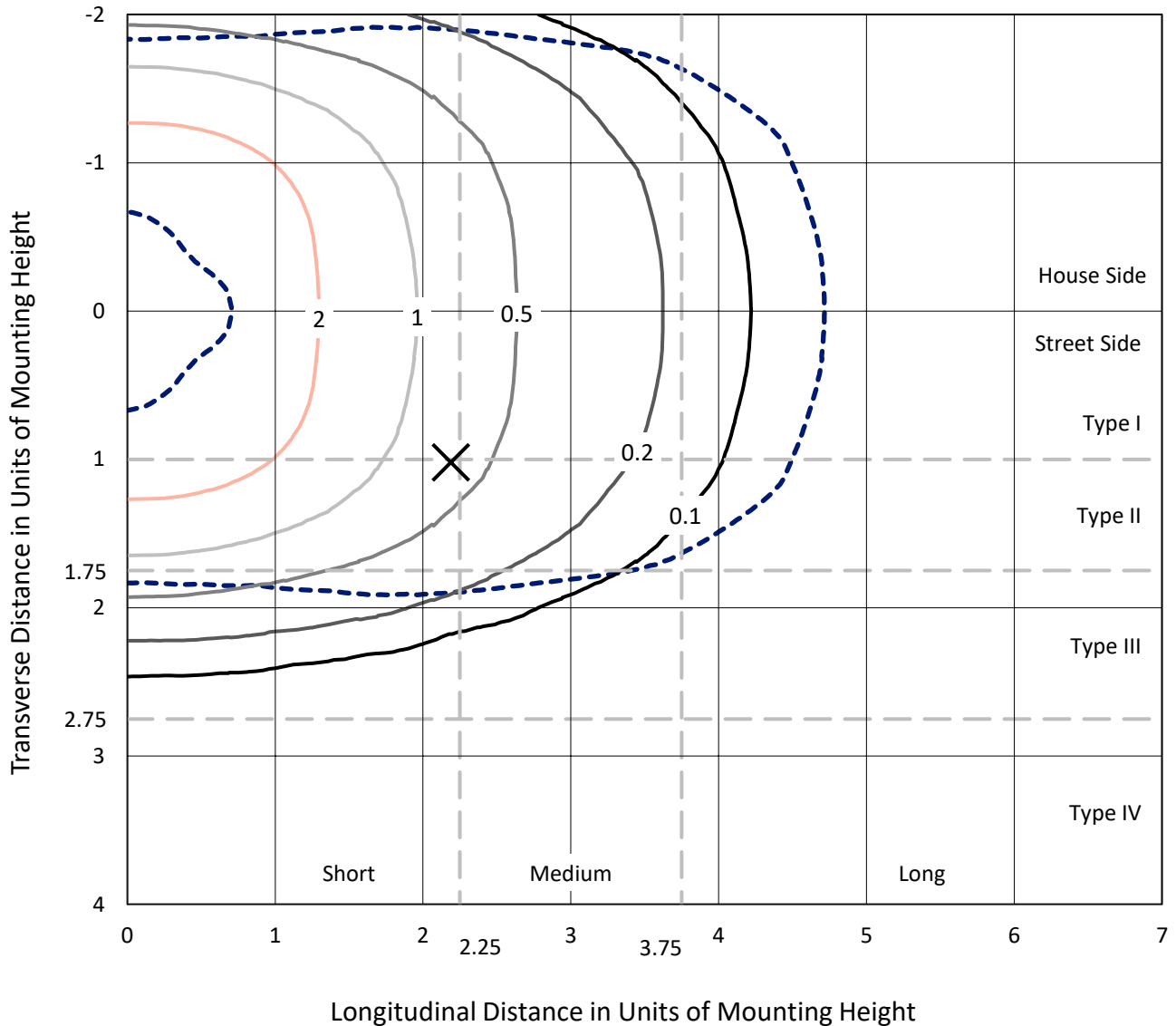
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

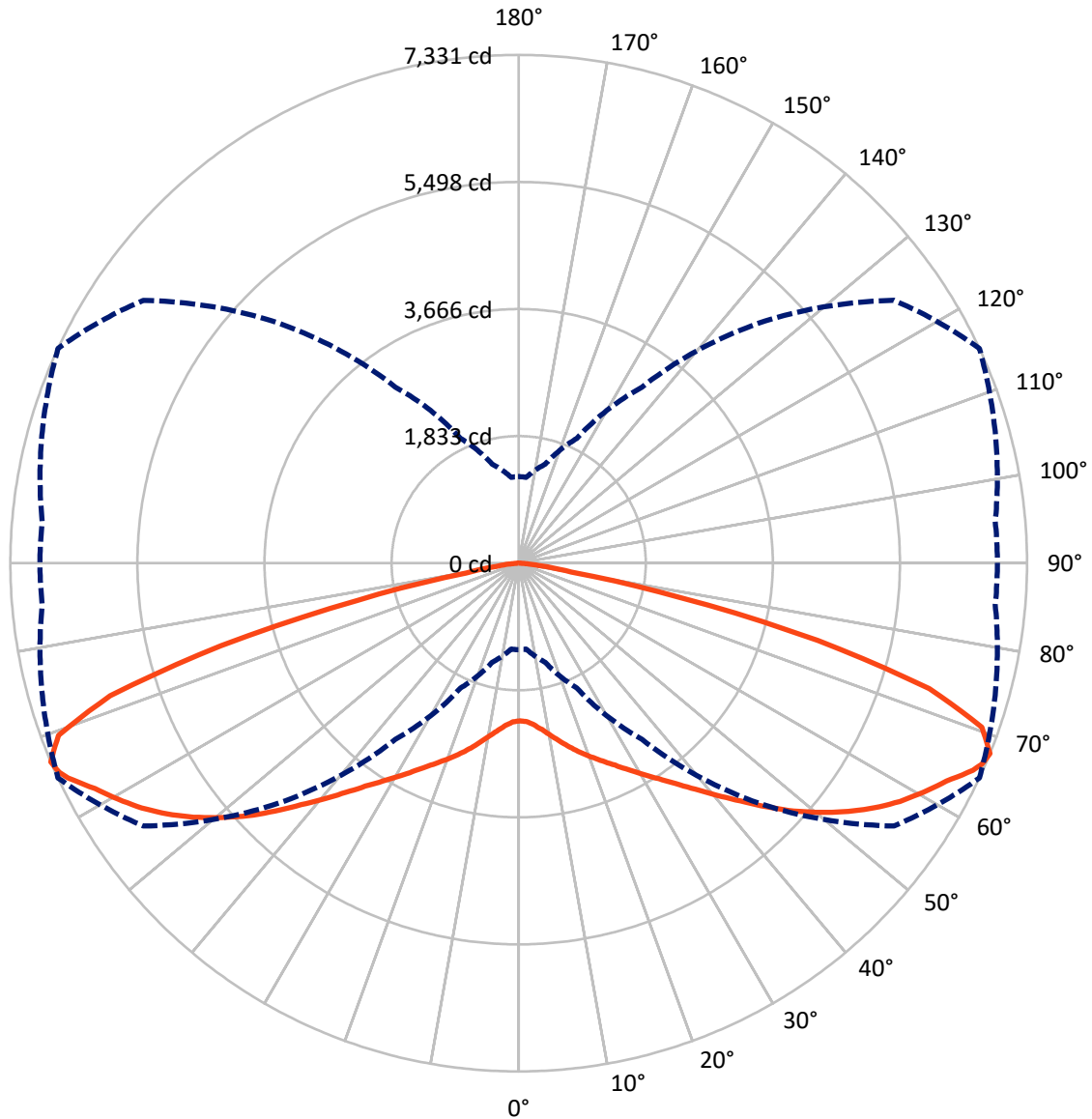
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	10849.5	0.0	10849.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10849.5	0.0	10849.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21699.0	0.0	21699.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	1.0
10°-20°	750.2	3.5
20°-30°	1467.5	6.8
30°-40°	2496.0	11.5
40°-50°	3950.5	18.2
50°-60°	5238.3	24.1
60°-70°	4941.3	22.8
70°-80°	2442.7	11.3
80°-90°	188.3	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°	21699.0	100.0
0°-180°	21699.0	100.0



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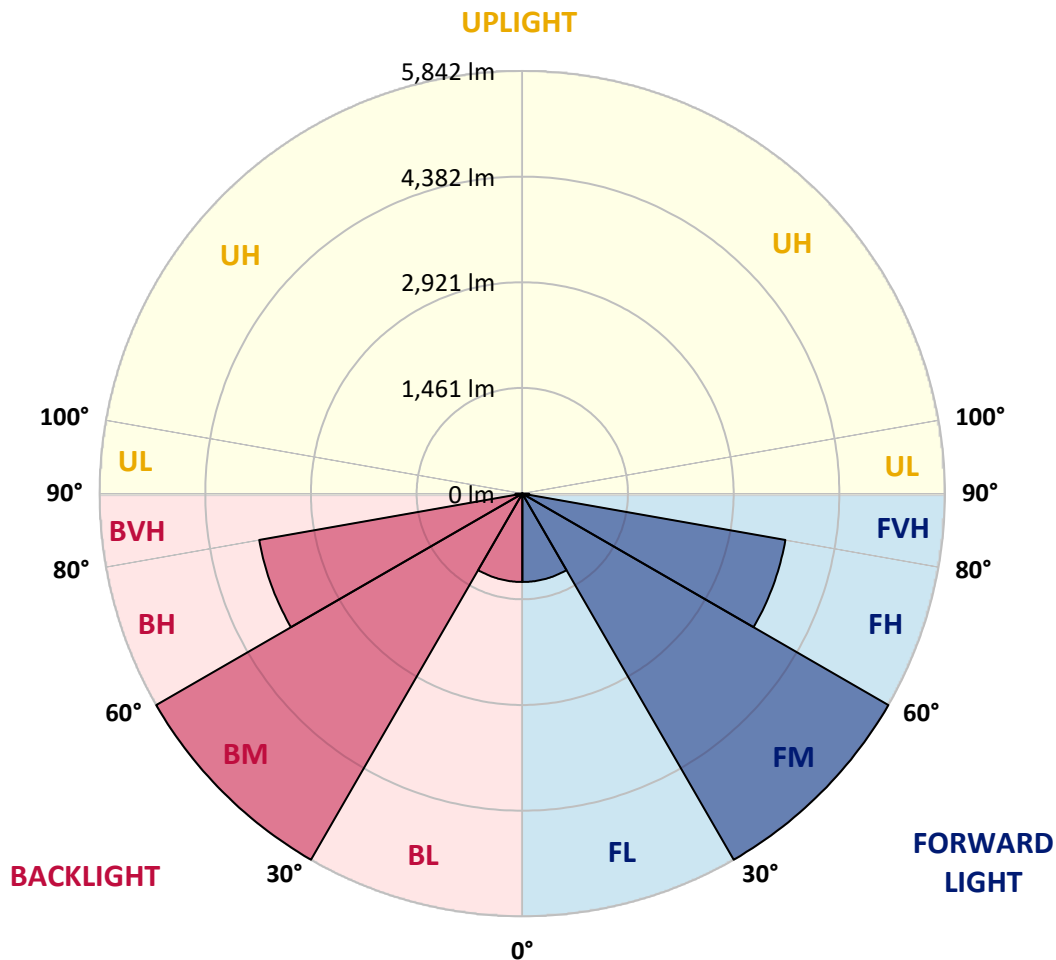
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1221.0	5.6			
FM	(30°-60°)	5842.4	26.9			
FH	(60°-80°)	3692.0	17.0			G2/5000
FVH	(80°-90°)	94.1	0.4			G1/100
BL	(0°-30°)	1221.0	5.6	B3/2500		
BM	(30°-60°)	5842.4	26.9	B4/8500		
BH	(60°-80°)	3692.0	17.0	B4/5000		G4/5000
BVH	(80°-90°)	94.1	0.4			G1/100
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°	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8
2.5°	2261.2	2263.5	2265.8	2269.3	2273.9	2280.9	2285.6	2289.1	2298.4	2299.5	2298.4
5°	2253.0	2255.3	2261.2	2271.6	2286.7	2307.7	2323.9	2343.7	2358.8	2369.3	2366.9
7.5°	2251.9	2256.5	2265.8	2287.9	2317.0	2353.0	2390.2	2423.9	2453.0	2476.2	2472.7
10°	2270.5	2276.3	2291.4	2323.9	2369.3	2421.6	2473.9	2523.9	2565.7	2596.0	2606.4
12.5°	2301.8	2306.5	2334.4	2383.2	2448.3	2513.4	2572.7	2634.3	2692.5	2743.6	2743.6
15°	2356.5	2364.6	2399.5	2470.4	2550.6	2626.2	2686.6	2751.7	2814.5	2872.7	2890.1
17.5°	2432.0	2443.7	2496.0	2586.7	2689.0	2758.7	2815.7	2869.2	2923.8	2979.6	2987.7
20°	2535.5	2547.1	2616.9	2726.2	2847.1	2930.8	2969.1	2981.9	3008.7	3062.1	3069.1
22.5°	2676.2	2687.8	2765.7	2888.9	3023.8	3114.5	3130.7	3100.5	3093.5	3135.4	3140.0
25°	2835.5	2845.9	2935.4	3068.0	3207.5	3306.3	3301.6	3227.2	3185.4	3211.0	3217.9
27.5°	3014.5	3029.6	3120.3	3257.5	3408.6	3495.8	3481.8	3373.7	3284.2	3279.5	3281.9
30°	3243.5	3259.8	3345.8	3477.2	3626.0	3706.2	3677.1	3531.8	3393.5	3347.0	3347.0
32.5°	3485.3	3526.0	3613.2	3750.4	3866.6	3924.8	3880.6	3706.2	3522.5	3457.4	3453.9
35°	3800.4	3822.5	3908.5	4042.2	4129.4	4174.7	4089.8	3902.7	3691.1	3614.4	3603.9
37.5°	4108.4	4127.0	4227.0	4354.9	4460.7	4458.4	4343.3	4136.3	3900.3	3814.3	3807.3
40°	4423.5	4443.3	4557.2	4674.6	4780.4	4771.1	4631.6	4400.2	4149.1	4052.6	4071.2
42.5°	4696.7	4718.8	4847.8	5015.2	5110.6	5108.2	4946.6	4686.2	4424.7	4338.6	4354.9
45°	4945.5	4965.2	5115.2	5307.0	5446.5	5464.0	5287.3	5011.7	4743.2	4632.7	4637.4
47.5°	5121.0	5158.2	5315.2	5534.9	5724.4	5786.0	5612.8	5343.1	5033.8	4918.7	4925.7
50°	5254.7	5278.0	5448.9	5698.8	5938.3	6066.2	5926.7	5650.0	5324.5	5202.4	5218.7
52.5°	5271.0	5298.9	5484.9	5773.2	6080.1	6274.3	6205.7	5949.9	5620.9	5495.4	5530.2
55°	5138.5	5154.7	5376.8	5726.7	6135.9	6428.9	6446.3	6228.9	5903.4	5808.1	5831.3
57.5°	4760.6	4802.5	5083.8	5509.3	6059.2	6511.4	6626.5	6482.4	6189.4	6095.2	6132.4
60°	4141.0	4182.8	4465.3	5004.8	5769.7	6473.1	6775.3	6706.7	6448.6	6373.1	6392.8
62.5°	3244.7	3241.2	3591.1	4252.6	5194.3	6284.7	6885.8	6923.0	6704.4	6609.1	6639.3
65°	2103.0	2113.5	2451.8	3164.5	4325.8	5805.8	6910.2	7198.5	6955.5	6811.4	6833.4
66°	1691.5	1722.9	2010.0	2666.9	3882.9	5491.9	6836.9	7279.9	7032.2	6857.9	6868.3
67.5°	1248.6	1242.8	1478.8	1985.6	3100.5	4895.5	6607.9	7331.0	7119.4	6899.7	6904.4
70°	712.6	711.5	795.2	1090.5	1822.9	3447.0	5569.8	7085.7	7296.1	7050.8	7038.1
72.5°	520.8	517.3	529.0	602.2	889.3	1740.3	3842.2	6192.9	7205.5	7026.4	6990.4
75°	437.1	434.8	432.5	441.8	498.7	788.2	2039.1	4454.9	6252.2	6595.1	6557.9
77.5°	356.9	356.9	358.1	355.7	358.1	415.0	845.2	2387.9	3807.3	4250.3	4353.7
80°	279.0	277.8	297.6	289.5	270.9	266.2	374.3	768.4	1263.7	1256.7	1037.0
82.5°	205.8	191.8	226.7	220.9	200.0	169.7	218.6	327.8	422.0	274.4	203.4
85°	130.2	129.0	160.4	146.5	122.1	80.2	104.6	140.7	174.4	105.8	86.0
87.5°	23.3	22.1	51.2	37.2	37.2	23.3	29.1	38.4	57.0	39.5	29.1
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)