

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: P453701

Luminaire Tested: **GALN-SA4D-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
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-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29169 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

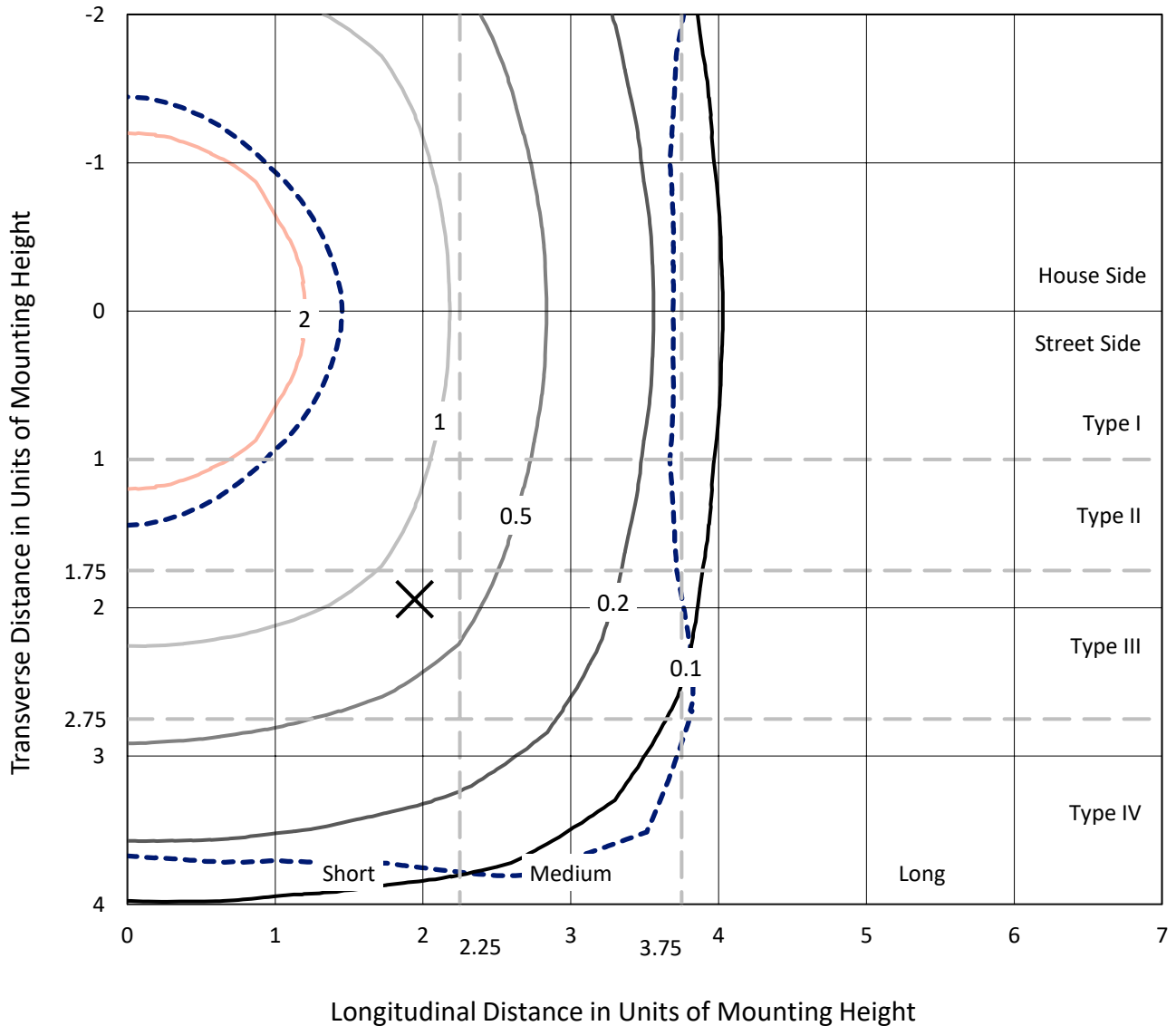
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

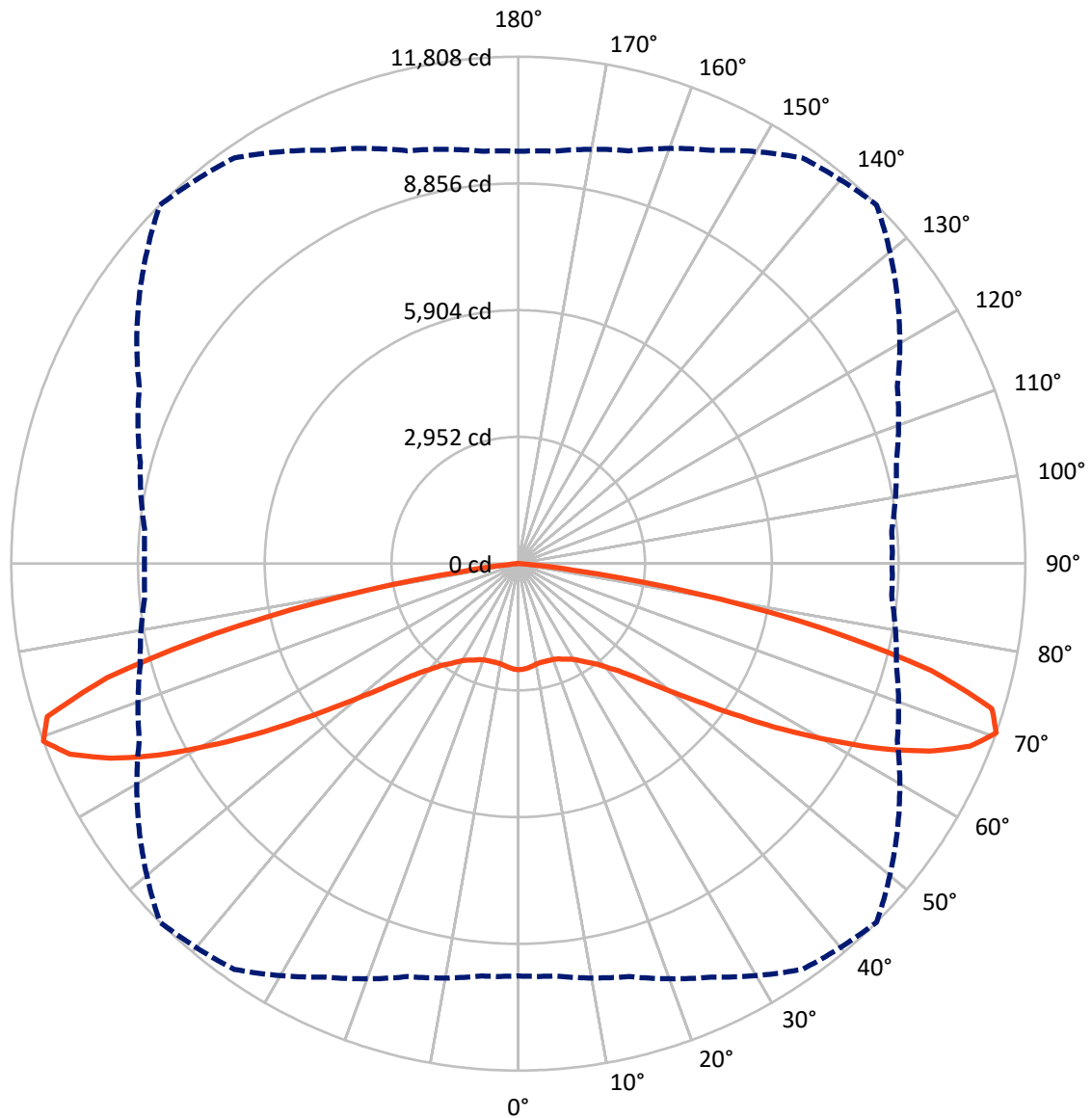
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14584.5	0.0	14584.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14584.5	0.0	14584.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29169.0	0.0	29169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	0.8
10°-20°	676.1	2.3
20°-30°	1151.9	3.9
30°-40°	1785.5	6.1
40°-50°	3005.2	10.3
50°-60°	5467.9	18.7
60°-70°	9256.9	31.7
70°-80°	7165.2	24.6
80°-90°	429.4	1.5
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°	29169.0	100.0
0°-180°	29169.0	100.0

Coefficient of Utilization



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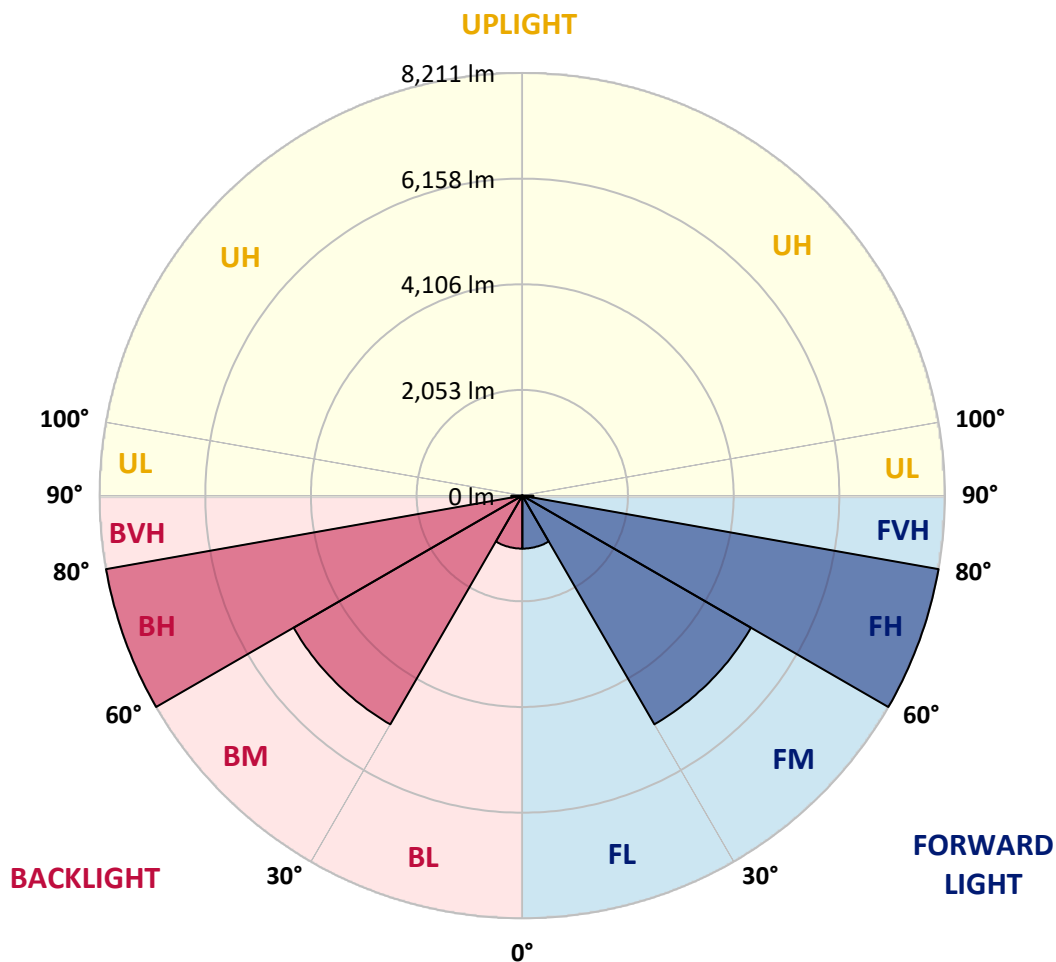
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1029.5	3.5			
FM (30°-60°)	5129.3	17.6			
FH (60°-80°)	8211.1	28.1			G4/12000
FVH (80°-90°)	214.7	0.7			G2/225
BL (0°-30°)	1029.5	3.5	B3/2500		
BM (30°-60°)	5129.3	17.6	B4/8500		
BH (60°-80°)	8211.1	28.1	B5		G4/12000
BVH (80°-90°)	214.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5
2.5°	2463.4	2464.9	2464.9	2461.8	2460.3	2460.3	2458.7	2458.7	2463.4	2464.9	2466.4
5°	2441.8	2441.8	2441.8	2440.2	2437.2	2437.2	2434.1	2434.1	2435.6	2440.2	2437.2
7.5°	2412.5	2415.6	2415.6	2409.4	2404.8	2404.8	2403.3	2404.8	2406.4	2411.0	2409.4
10°	2403.3	2404.8	2397.1	2386.3	2378.6	2374.0	2375.5	2378.6	2386.3	2389.4	2390.9
12.5°	2409.4	2409.4	2395.6	2380.2	2366.3	2360.1	2358.6	2369.4	2383.2	2392.5	2395.6
15°	2417.1	2414.1	2397.1	2377.1	2363.2	2361.7	2360.1	2367.8	2387.9	2406.4	2407.9
17.5°	2421.8	2420.2	2398.6	2374.0	2366.3	2366.3	2364.8	2370.9	2392.5	2415.6	2417.1
20°	2437.2	2432.5	2407.9	2381.7	2375.5	2378.6	2374.0	2381.7	2404.8	2432.5	2438.7
22.5°	2468.0	2463.4	2438.7	2412.5	2409.4	2409.4	2407.9	2415.6	2440.2	2469.5	2474.1
25°	2504.9	2500.3	2477.2	2458.7	2461.8	2468.0	2464.9	2466.4	2486.5	2511.1	2518.8
27.5°	2554.2	2546.5	2526.5	2511.1	2520.4	2520.4	2520.4	2518.8	2531.1	2554.2	2561.9
30°	2614.3	2611.2	2589.7	2588.1	2595.8	2588.1	2588.1	2589.7	2591.2	2612.8	2620.5
32.5°	2692.9	2686.7	2675.9	2672.9	2694.4	2700.6	2679.0	2659.0	2669.8	2691.4	2696.0
35°	2822.3	2813.1	2797.7	2780.7	2797.7	2826.9	2780.7	2765.3	2793.0	2822.3	2825.4
37.5°	2997.9	2993.3	2968.7	2937.8	2936.3	2967.1	2919.4	2917.8	2970.2	3005.6	3010.2
40°	3218.2	3222.8	3192.0	3162.8	3147.4	3172.0	3135.0	3148.9	3199.7	3239.8	3236.7
42.5°	3527.9	3510.9	3463.2	3435.4	3418.5	3409.3	3400.0	3421.6	3478.6	3521.7	3555.6
45°	3889.9	3883.7	3823.7	3789.8	3752.8	3738.9	3735.9	3774.4	3843.7	3896.1	3900.7
47.5°	4299.7	4285.8	4247.3	4211.9	4198.0	4181.1	4165.7	4194.9	4264.3	4301.2	4312.0
50°	4721.8	4724.9	4724.9	4718.7	4732.6	4735.7	4694.1	4704.9	4743.4	4740.3	4737.2
52.5°	5204.0	5220.9	5301.1	5308.8	5375.0	5419.7	5344.2	5299.5	5285.7	5202.5	5208.6
55°	5770.9	5786.3	5906.5	6026.7	6205.4	6280.9	6122.2	5983.5	5884.9	5758.6	5764.8
57.5°	6478.0	6485.7	6599.7	6830.8	7114.3	7291.5	7012.6	6738.4	6538.1	6418.0	6370.2
60°	7239.1	7246.8	7413.2	7695.1	8135.7	8351.4	8006.3	7558.0	7305.3	7122.0	7134.3
62.5°	8152.6	8183.4	8332.9	8721.1	9255.7	9497.5	9040.0	8440.7	8098.7	7870.7	7879.9
65°	9130.9	9183.3	9346.6	9773.3	10266.3	10526.6	9965.9	9274.2	8849.0	8570.1	8599.4
67.5°	9765.6	9811.8	10047.5	10518.9	11133.6	11349.3	10625.2	9819.5	9288.0	8955.3	8893.6
70°	9603.8	9642.3	9956.6	10625.2	11535.7	11808.4	10782.4	9739.4	9113.9	8730.3	8705.7
72.5°	8477.7	8397.6	8856.7	9816.4	11076.6	11534.2	10287.8	8895.2	8108.0	7713.6	7667.4
75°	5618.4	5792.5	6470.3	7601.1	9371.2	9938.1	8781.2	7142.0	6151.4	5823.3	5772.5
77.5°	1877.9	2012.0	2614.3	4308.9	6388.7	7240.6	6397.9	4671.0	3304.5	2662.1	2674.4
80°	497.6	491.4	636.3	1184.7	2760.7	4193.4	3213.6	1582.2	865.8	627.0	594.7
82.5°	178.7	200.3	257.3	328.1	731.8	1303.3	919.7	443.7	325.1	240.3	232.6
85°	78.6	77.0	110.9	130.9	183.3	243.4	215.7	187.9	164.8	109.4	101.7
87.5°	16.9	16.9	26.2	20.0	32.4	32.4	40.1	47.8	49.3	32.4	26.2
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)