

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: P458950

Luminaire Tested: **GALN-SA4D-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458950
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-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 29837 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

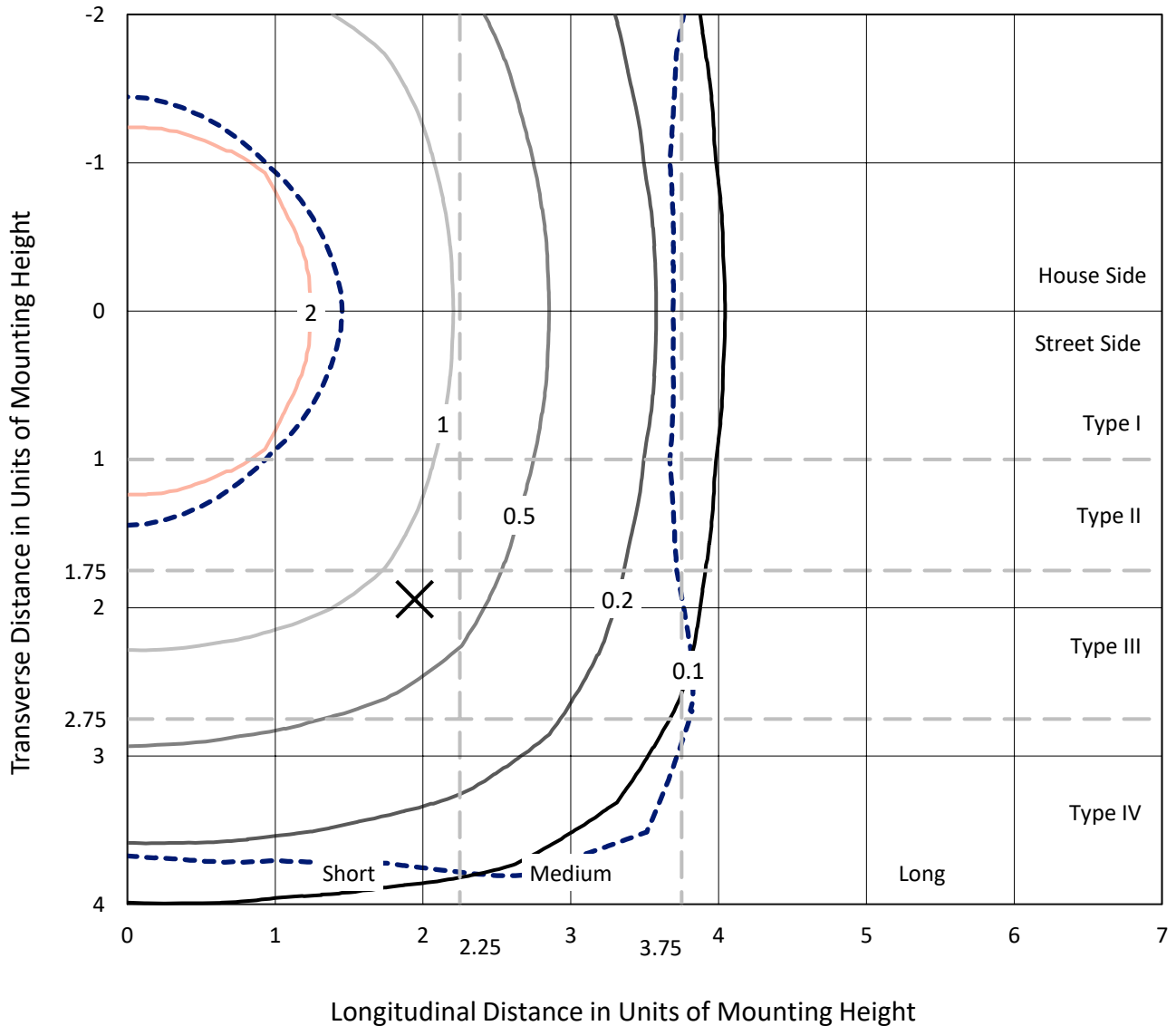
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

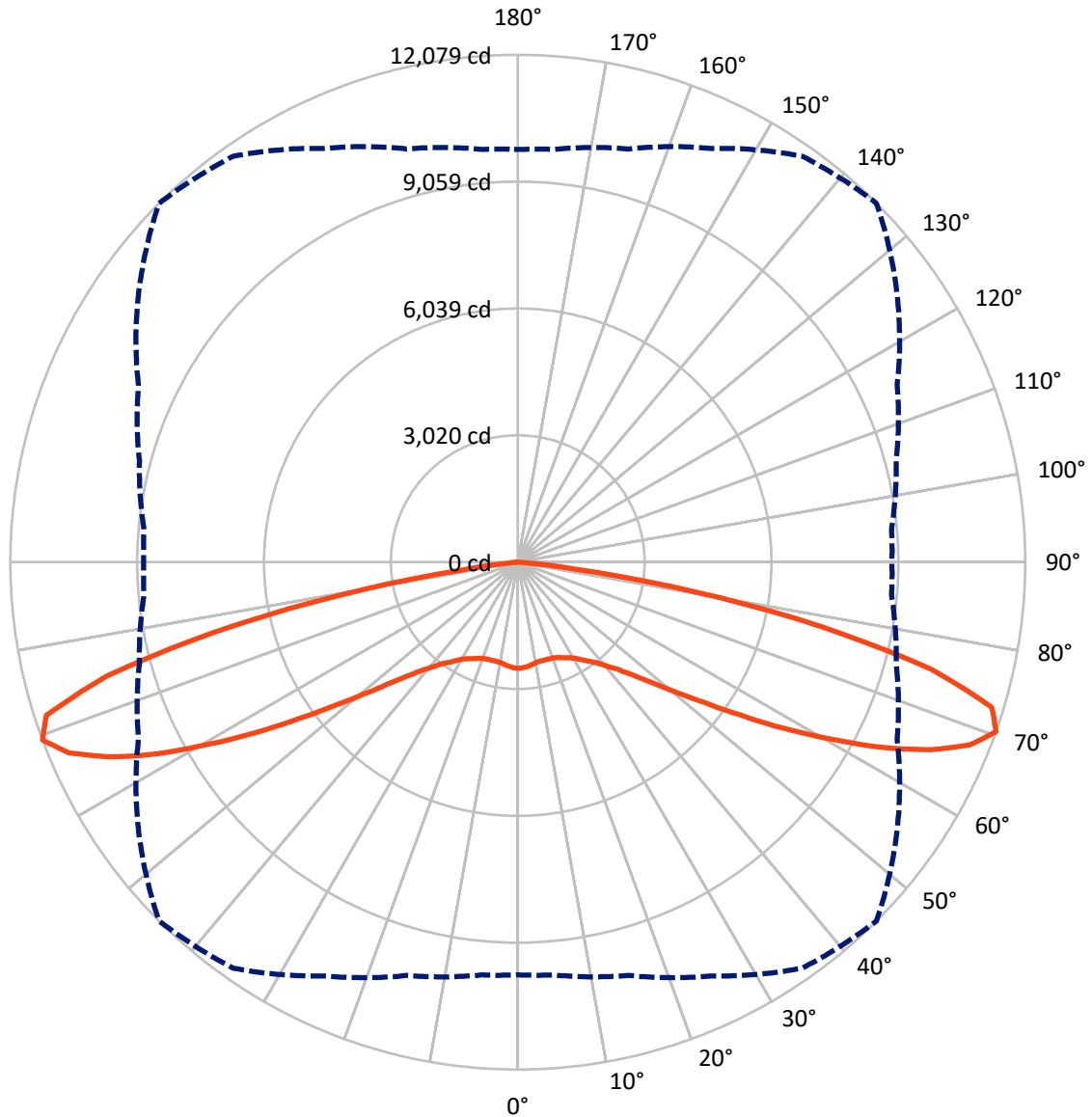
✕ Max cd
 - - - 1/2 Max cd



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	14918.5	0.0	14918.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14918.5	0.0	14918.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29837.0	0.0	29837.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	0.8
10°-20°	691.6	2.3
20°-30°	1178.3	3.9
30°-40°	1826.4	6.1
40°-50°	3074.0	10.3
50°-60°	5593.1	18.7
60°-70°	9468.9	31.7
70°-80°	7329.3	24.6
80°-90°	439.2	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°	29837.0	100.0
0°-180°	29837.0	100.0



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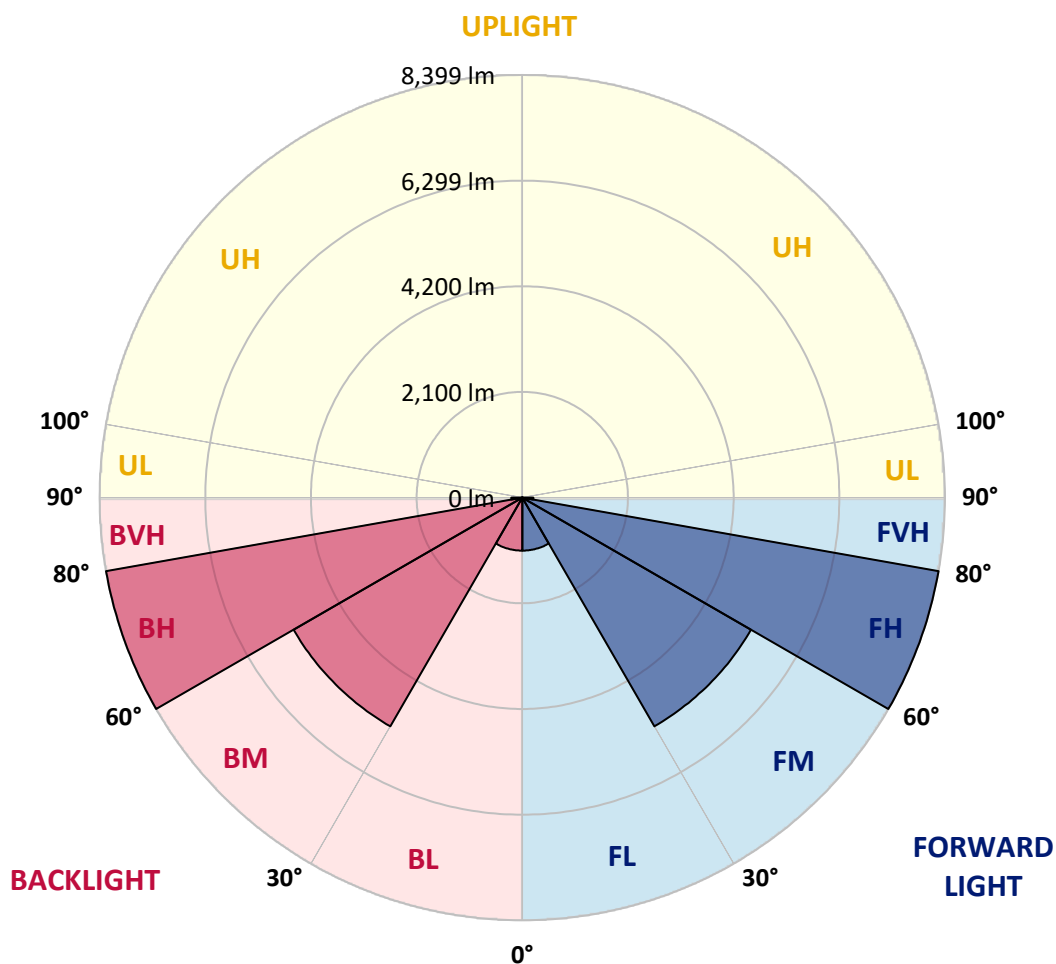
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1053.1	3.5			
FM	(30°-60°)	5246.7	17.6			
FH	(60°-80°)	8399.1	28.1			G4/12000
FVH	(80°-90°)	219.6	0.7			G2/225
BL	(0°-30°)	1053.1	3.5	B3/2500		
BM	(30°-60°)	5246.7	17.6	B4/8500		
BH	(60°-80°)	8399.1	28.1	B5		G4/12000
BVH	(80°-90°)	219.6	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°	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1
2.5°	2519.8	2521.3	2521.3	2518.2	2516.6	2516.6	2515.0	2515.0	2519.8	2521.3	2522.9
5°	2497.7	2497.7	2497.7	2496.1	2493.0	2493.0	2489.8	2489.8	2491.4	2496.1	2493.0
7.5°	2467.8	2470.9	2470.9	2464.6	2459.9	2459.9	2458.3	2459.9	2461.5	2466.2	2464.6
10°	2458.3	2459.9	2452.0	2441.0	2433.1	2428.4	2429.9	2433.1	2441.0	2444.1	2445.7
12.5°	2464.6	2464.6	2450.4	2434.7	2420.5	2414.2	2412.6	2423.6	2437.8	2447.3	2450.4
15°	2472.5	2469.3	2452.0	2431.5	2417.3	2415.8	2414.2	2422.1	2442.5	2461.5	2463.0
17.5°	2477.2	2475.6	2453.6	2428.4	2420.5	2420.5	2418.9	2425.2	2447.3	2470.9	2472.5
20°	2493.0	2488.2	2463.0	2436.2	2429.9	2433.1	2428.4	2436.2	2459.9	2488.2	2494.6
22.5°	2524.5	2519.8	2494.6	2467.8	2464.6	2464.6	2463.0	2470.9	2496.1	2526.1	2530.8
25°	2562.3	2557.6	2533.9	2515.0	2518.2	2524.5	2521.3	2522.9	2543.4	2568.6	2576.5
27.5°	2612.7	2604.9	2584.4	2568.6	2578.1	2578.1	2578.1	2576.5	2589.1	2612.7	2620.6
30°	2674.2	2671.0	2649.0	2647.4	2655.3	2647.4	2647.4	2649.0	2650.6	2672.6	2680.5
32.5°	2754.6	2748.3	2737.2	2734.1	2756.1	2762.4	2740.4	2719.9	2730.9	2753.0	2757.7
35°	2886.9	2877.5	2861.7	2844.4	2861.7	2891.7	2844.4	2828.6	2857.0	2886.9	2890.1
37.5°	3066.6	3061.9	3036.6	3005.1	3003.5	3035.1	2986.2	2984.6	3038.2	3074.5	3079.2
40°	3291.9	3296.7	3265.1	3235.2	3219.4	3244.6	3206.8	3221.0	3273.0	3314.0	3310.8
42.5°	3608.7	3591.3	3542.5	3514.1	3496.8	3487.3	3477.9	3499.9	3558.2	3602.4	3637.0
45°	3979.0	3972.7	3911.2	3876.6	3838.7	3824.6	3821.4	3860.8	3931.7	3985.3	3990.0
47.5°	4398.2	4384.0	4344.6	4308.3	4294.2	4276.8	4261.1	4291.0	4361.9	4399.7	4410.8
50°	4829.9	4833.1	4833.1	4826.8	4841.0	4844.1	4801.6	4812.6	4852.0	4848.9	4845.7
52.5°	5323.2	5340.5	5422.5	5430.3	5498.1	5543.8	5466.6	5420.9	5406.7	5321.6	5327.9
55°	5903.1	5918.8	6041.8	6164.7	6347.5	6424.7	6262.4	6120.6	6019.7	5890.5	5896.8
57.5°	6626.4	6634.3	6750.9	6987.3	7277.2	7458.4	7173.2	6892.7	6687.9	6564.9	6516.1
60°	7404.9	7412.7	7582.9	7871.3	8322.0	8542.6	8189.6	7731.1	7472.6	7285.1	7297.7
62.5°	8339.3	8370.8	8523.7	8920.8	9467.6	9715.0	9247.0	8634.0	8284.2	8051.0	8060.4
65°	9340.0	9393.6	9560.6	9997.1	10501.4	10767.7	10194.1	9486.5	9051.6	8766.4	8796.3
67.5°	9989.2	10036.5	10277.6	10759.8	11388.6	11609.2	10868.6	10044.4	9500.7	9160.3	9097.3
70°	9823.8	9863.2	10184.6	10868.6	11799.9	12078.8	11029.3	9962.4	9322.7	8930.3	8905.1
72.5°	8671.8	8589.9	9059.5	10041.2	11330.3	11798.3	10523.4	9098.9	8293.6	7890.2	7842.9
75°	5747.1	5925.1	6618.5	7775.2	9585.8	10165.7	8982.3	7305.6	6292.3	5956.7	5904.7
77.5°	1920.9	2058.0	2674.2	4407.6	6535.0	7406.4	6544.5	4777.9	3380.2	2723.0	2735.7
80°	509.0	502.7	650.8	1211.8	2823.9	4289.4	3287.2	1618.4	885.6	641.4	608.3
82.5°	182.8	204.9	263.2	335.7	748.5	1333.2	940.8	453.8	332.5	245.8	238.0
85°	80.4	78.8	113.5	133.9	187.5	249.0	220.6	192.3	168.6	111.9	104.0
87.5°	17.3	17.3	26.8	20.5	33.1	33.1	41.0	48.9	50.4	33.1	26.8
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)