

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: P453730

Luminaire Tested: **GALN-SA4D-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453730
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-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 32029 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

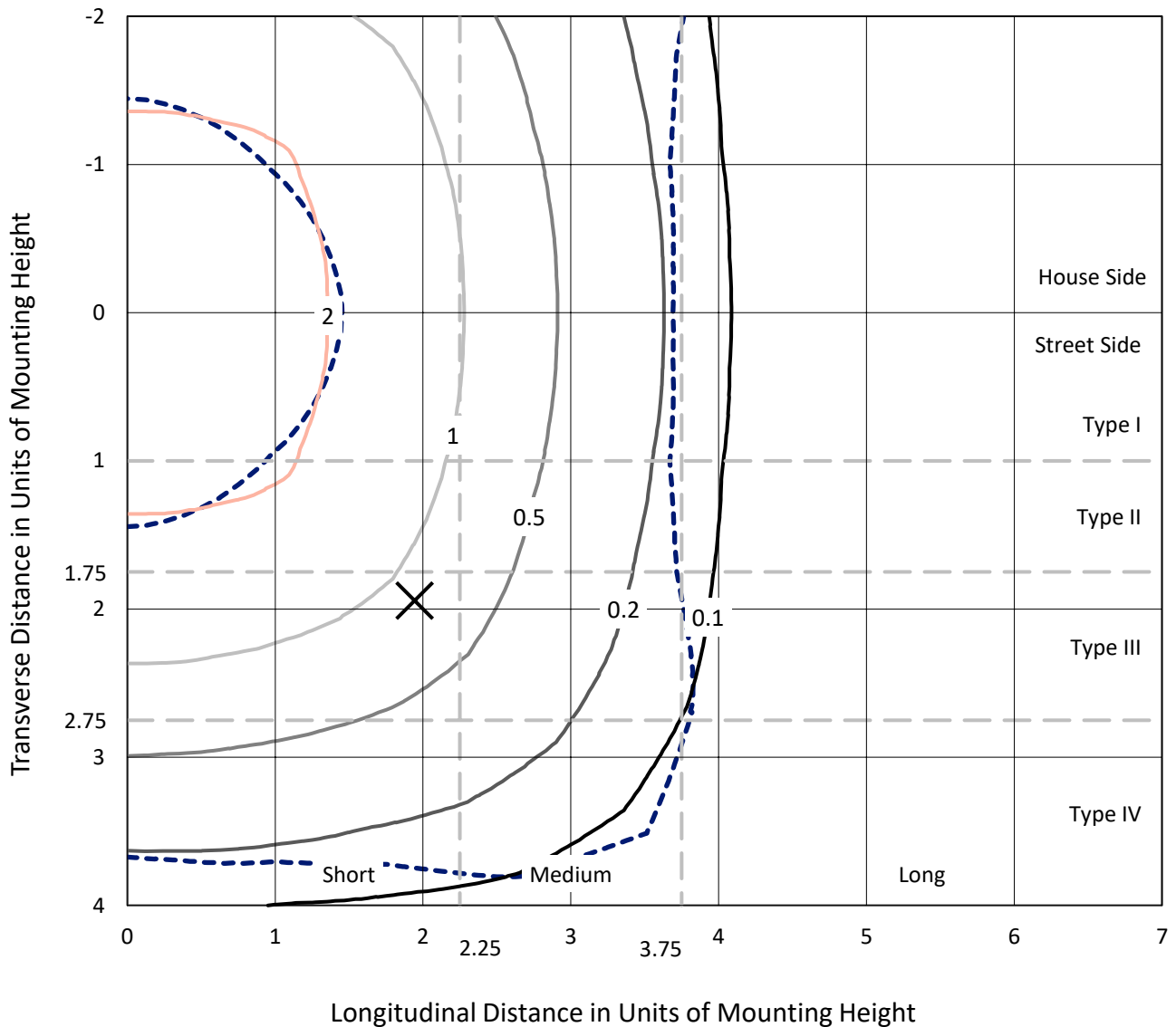
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

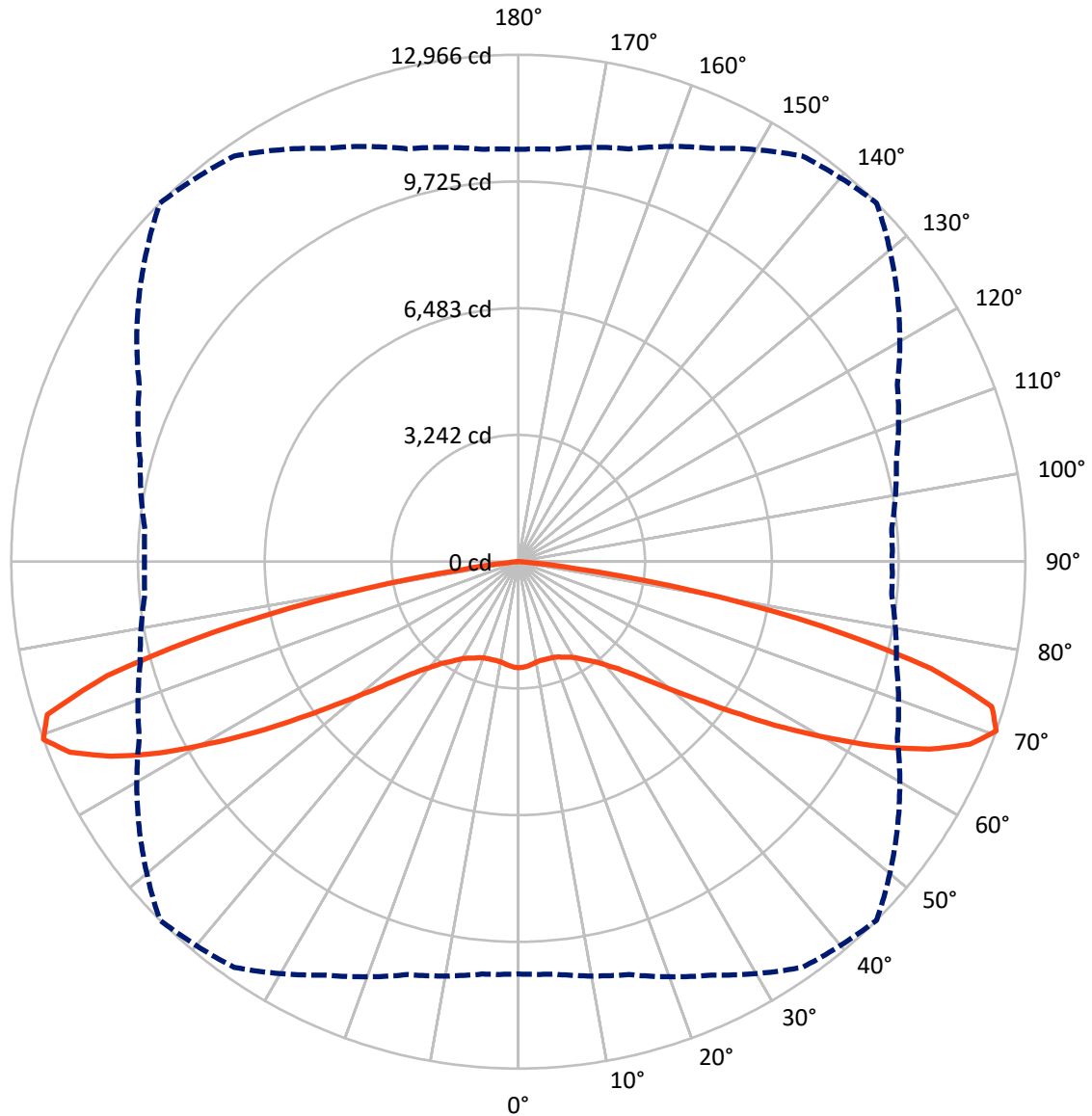
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	16014.5	0.0	16014.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16014.5	0.0	16014.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32029.0	0.0	32029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	0.8
10°-20°	742.4	2.3
20°-30°	1264.9	3.9
30°-40°	1960.5	6.1
40°-50°	3299.9	10.3
50°-60°	6004.0	18.7
60°-70°	10164.6	31.7
70°-80°	7867.8	24.6
80°-90°	471.4	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°	32029.0	100.0
0°-180°	32029.0	100.0

Coefficient of Utilization



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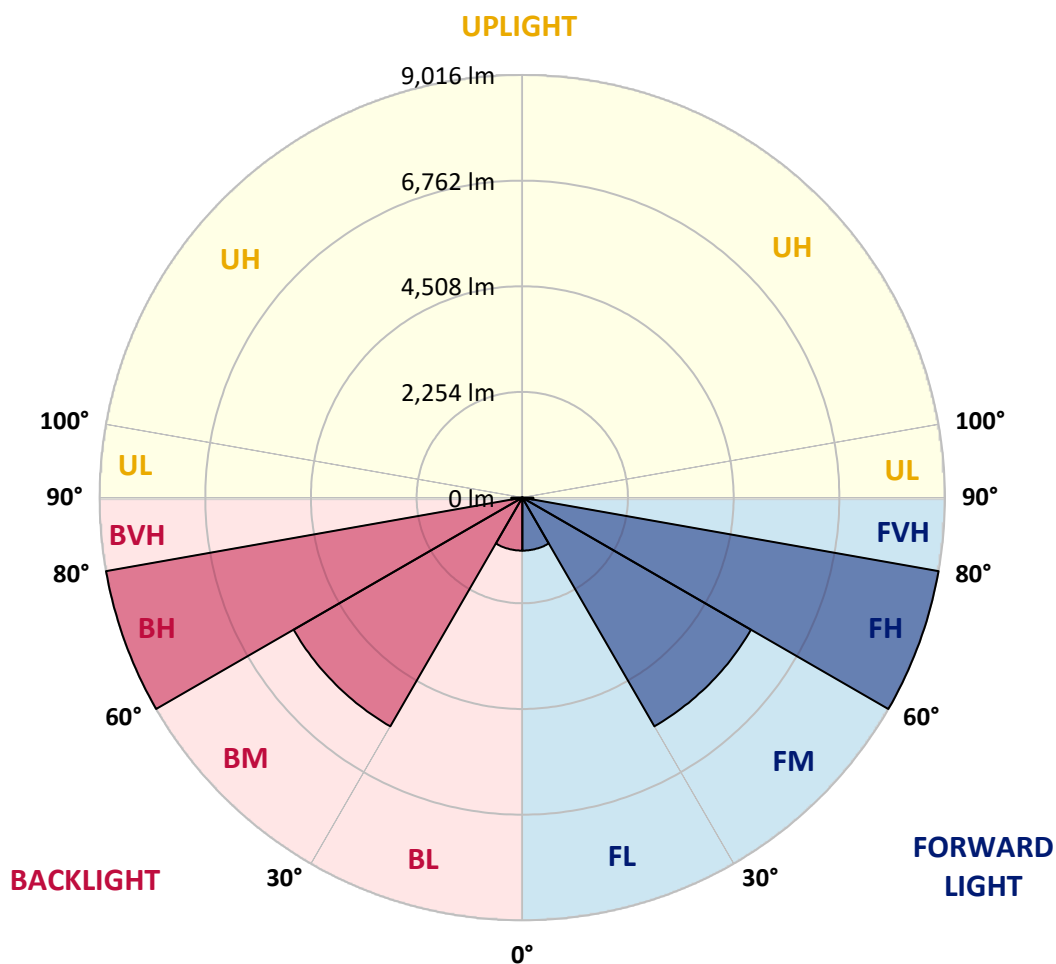
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.4	3.5			
FM (30°-60°)	5632.2	17.6			
FH (60°-80°)	9016.2	28.1			G4/12000
FVH (80°-90°)	235.7	0.7			G3/500
BL (0°-30°)	1130.4	3.5	B3/2500		
BM (30°-60°)	5632.2	17.6	B4/8500		
BH (60°-80°)	9016.2	28.1	B5		G4/12000
BVH (80°-90°)	235.7	0.7			G3/500
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°	2711.6	2711.6	2711.6	2711.6	2711.6	2711.6	2711.6	2711.6	2711.6	2711.6	2711.6
2.5°	2704.9	2706.6	2706.6	2703.2	2701.5	2701.5	2699.8	2699.8	2704.9	2706.6	2708.3
5°	2681.2	2681.2	2681.2	2679.5	2676.1	2676.1	2672.7	2672.7	2674.4	2679.5	2676.1
7.5°	2649.1	2652.4	2652.4	2645.7	2640.6	2640.6	2638.9	2640.6	2642.3	2647.4	2645.7
10°	2638.9	2640.6	2632.1	2620.3	2611.8	2606.8	2608.5	2611.8	2620.3	2623.7	2625.4
12.5°	2645.7	2645.7	2630.4	2613.5	2598.3	2591.5	2589.9	2601.7	2616.9	2627.1	2630.4
15°	2654.1	2650.7	2632.1	2610.2	2594.9	2593.2	2591.5	2600.0	2622.0	2642.3	2644.0
17.5°	2659.2	2657.5	2633.8	2606.8	2598.3	2598.3	2596.6	2603.4	2627.1	2652.4	2654.1
20°	2676.1	2671.0	2644.0	2615.2	2608.5	2611.8	2606.8	2615.2	2640.6	2671.0	2677.8
22.5°	2710.0	2704.9	2677.8	2649.1	2645.7	2645.7	2644.0	2652.4	2679.5	2711.6	2716.7
25°	2750.6	2745.5	2720.1	2699.8	2703.2	2710.0	2706.6	2708.3	2730.3	2757.3	2765.8
27.5°	2804.7	2796.2	2774.2	2757.3	2767.5	2767.5	2767.5	2765.8	2779.3	2804.7	2813.1
30°	2870.7	2867.3	2843.6	2841.9	2850.4	2841.9	2841.9	2843.6	2845.3	2869.0	2877.4
32.5°	2956.9	2950.2	2938.3	2934.9	2958.6	2965.4	2941.7	2919.7	2931.6	2955.2	2960.3
35°	3099.0	3088.9	3072.0	3053.4	3072.0	3104.1	3053.4	3036.4	3066.9	3099.0	3102.4
37.5°	3291.9	3286.8	3259.7	3225.9	3224.2	3258.0	3205.6	3203.9	3261.4	3300.3	3305.4
40°	3533.8	3538.8	3505.0	3472.9	3456.0	3483.0	3442.4	3457.6	3513.5	3557.5	3554.1
42.5°	3873.8	3855.2	3802.7	3772.3	3753.7	3743.5	3733.4	3757.1	3819.7	3867.0	3904.2
45°	4271.3	4264.5	4198.6	4161.4	4120.8	4105.5	4102.1	4144.4	4220.6	4278.1	4283.2
47.5°	4721.3	4706.1	4663.8	4624.9	4609.6	4591.0	4574.1	4606.2	4682.4	4723.0	4734.8
50°	5184.8	5188.2	5188.2	5181.4	5196.6	5200.0	5154.3	5166.2	5208.5	5205.1	5201.7
52.5°	5714.3	5732.9	5820.8	5829.3	5902.0	5951.1	5868.2	5819.1	5803.9	5712.6	5719.3
55°	6336.8	6353.7	6485.6	6617.6	6813.8	6896.7	6722.4	6570.2	6461.9	6323.2	6330.0
57.5°	7113.2	7121.7	7246.8	7500.6	7811.8	8006.4	7700.2	7399.1	7179.2	7047.2	6994.8
60°	7948.9	7957.3	8140.0	8449.6	8933.4	9170.2	8791.3	8299.0	8021.6	7820.3	7833.8
62.5°	8952.0	8985.8	9149.9	9576.2	10163.2	10428.8	9926.4	9268.3	8892.8	8642.4	8652.6
65°	10026.2	10083.7	10263.0	10731.6	11272.9	11558.8	10943.0	10183.5	9716.6	9410.4	9442.6
67.5°	10723.1	10773.8	11032.7	11550.3	12225.2	12462.1	11667.0	10782.3	10198.7	9833.3	9765.7
70°	10545.5	10587.8	10932.9	11667.0	12666.8	12966.2	11839.6	10694.3	10007.6	9586.3	9559.3
72.5°	9308.9	9221.0	9725.1	10778.9	12162.7	12665.1	11296.6	9767.3	8902.9	8469.9	8419.1
75°	6169.3	6360.4	7104.8	8346.4	10290.0	10912.6	9642.2	7842.3	6754.6	6394.3	6338.5
77.5°	2062.1	2209.2	2870.7	4731.4	7015.1	7950.6	7025.2	5129.0	3628.5	2923.1	2936.6
80°	546.4	539.6	698.6	1300.8	3031.4	4604.6	3528.7	1737.3	950.7	688.5	653.0
82.5°	196.2	219.9	282.5	360.3	803.5	1431.1	1009.9	487.2	356.9	263.9	255.4
85°	86.3	84.6	121.8	143.8	201.3	267.3	236.8	206.4	181.0	120.1	111.6
87.5°	18.6	18.6	28.8	22.0	35.5	35.5	44.0	52.4	54.1	35.5	28.8
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)