

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: P527754

Luminaire Tested: **GALN-SA2D-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13731 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

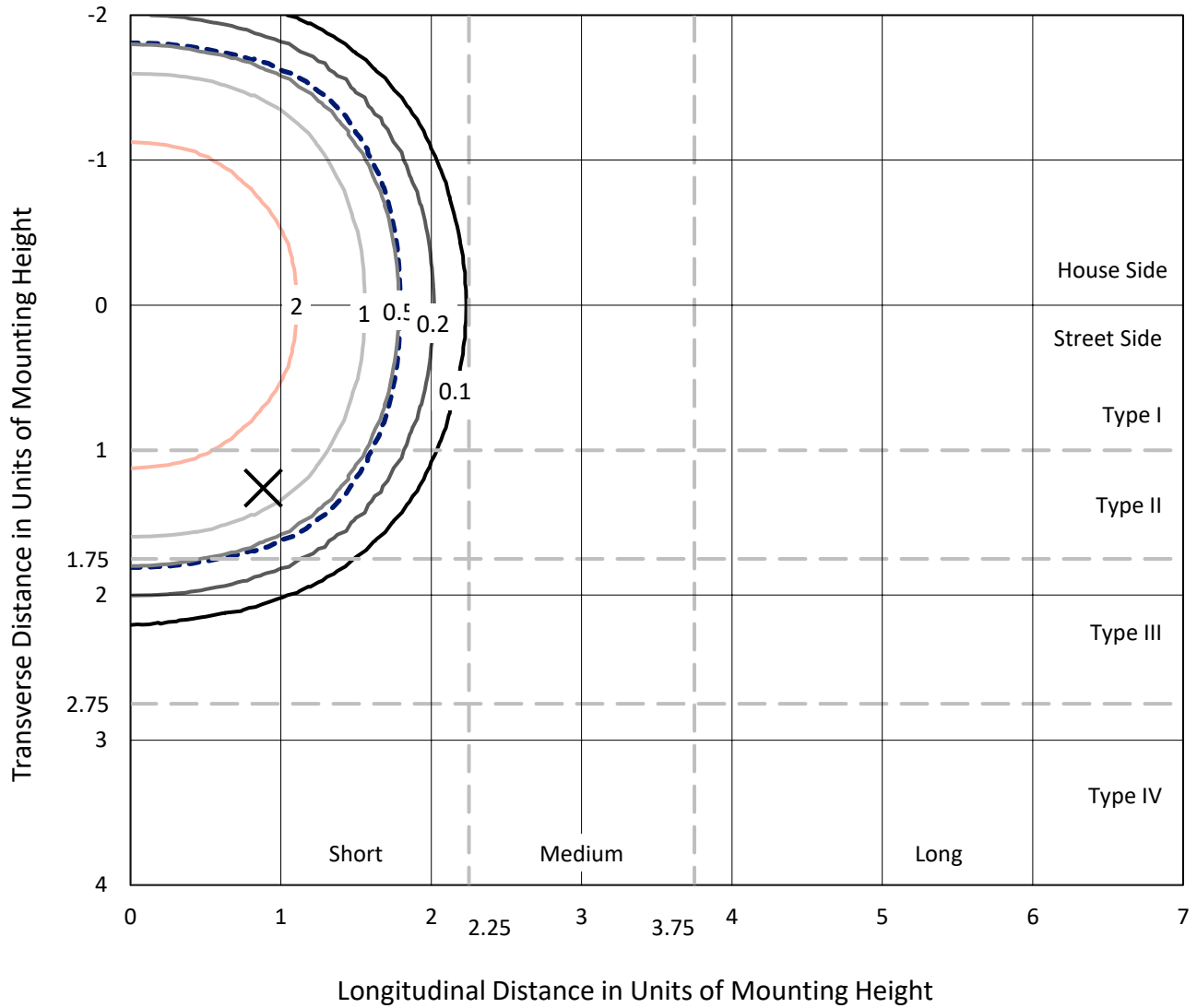
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527754
 CATALOG NUMBER: GALN-SA2D-740-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

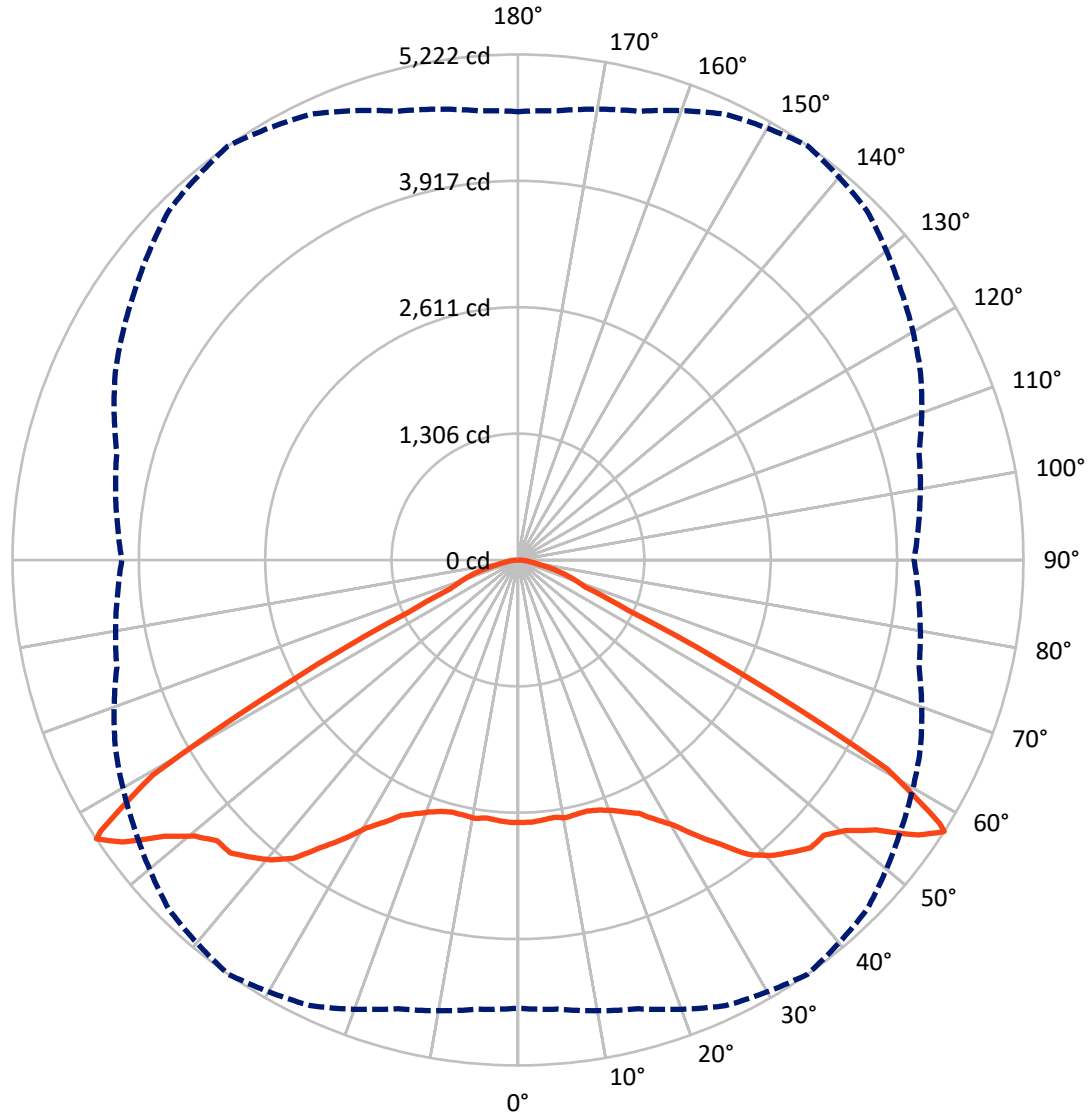
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

REPORT NUMBER: P527754
CATALOG NUMBER: GALN-SA2D-740-U-5MQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P527754
 CATALOG NUMBER: GALN-SA2D-740-U-5MQ-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6865.5	0.0	6865.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6865.5	0.0	6865.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13731.0	0.0	13731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.1	1.9
10°-20°	761.4	5.5
20°-30°	1329.8	9.7
30°-40°	2178.9	15.9
40°-50°	3194.8	23.3
50°-60°	4024.1	29.3
60°-70°	1513.4	11.0
70°-80°	402.4	2.9
80°-90°	69.0	0.5
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°	13731.0	100.0
0°-180°	13731.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527754

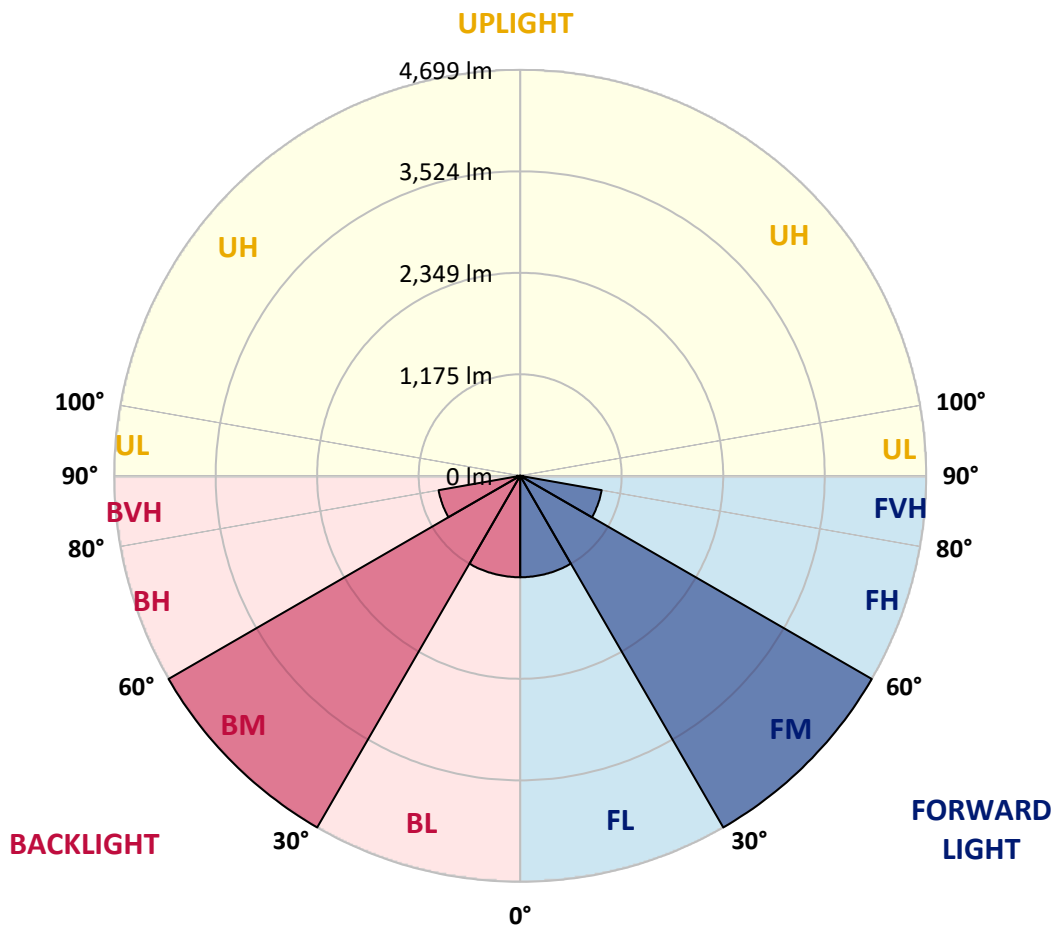
CATALOG NUMBER: GALN-SA2D-740-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1174.2	8.6			
FM (30°-60°)	4698.9	34.2			
FH (60°-80°)	957.9	7.0			G1/1800
FVH (80°-90°)	34.5	0.3			G1/100
BL (0°-30°)	1174.2	8.6	B3/2500		
BM (30°-60°)	4698.9	34.2	B3/5000		
BH (60°-80°)	957.9	7.0	B2/1000		G1/1800
BVH (80°-90°)	34.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P527754

CATALOG NUMBER: GALN-SA2D-740-U-5MQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8
2.5°	2698.2	2725.3	2713.5	2706.7	2711.8	2703.3	2689.8	2705.0	2701.6	2688.1	2683.0
5°	2691.5	2711.8	2698.2	2711.8	2698.2	2721.9	2715.2	2689.8	2720.2	2691.5	2701.6
7.5°	2686.4	2693.2	2696.5	2689.8	2684.7	2713.5	2698.2	2686.4	2669.5	2664.4	2672.9
10°	2674.6	2691.5	2666.1	2699.9	2706.7	2686.4	2686.4	2664.4	2650.9	2642.4	2671.2
12.5°	2705.0	2676.2	2672.9	2689.8	2694.9	2703.3	2679.6	2667.8	2642.4	2645.8	2640.7
15°	2669.5	2681.3	2683.0	2686.4	2691.5	2711.8	2689.8	2664.4	2654.3	2618.7	2622.1
17.5°	2683.0	2671.2	2683.0	2721.9	2715.2	2730.4	2706.7	2667.8	2644.1	2623.8	2650.9
20°	2706.7	2701.6	2706.7	2754.1	2762.5	2776.1	2755.8	2720.2	2674.6	2650.9	2664.4
22.5°	2732.1	2728.7	2732.1	2777.7	2826.8	2843.7	2823.4	2740.5	2716.8	2672.9	2657.6
25°	2777.7	2781.1	2816.7	2867.4	2899.5	2931.7	2894.5	2835.3	2759.1	2732.1	2699.9
27.5°	2879.2	2887.7	2908.0	2982.4	3038.3	3067.0	3014.6	2933.4	2886.0	2830.2	2821.7
30°	3004.4	3004.4	3040.0	3104.2	3180.4	3224.4	3160.1	3063.6	3006.1	2975.7	2957.1
32.5°	3170.2	3151.6	3165.1	3278.5	3396.9	3434.1	3347.8	3229.4	3138.1	3097.5	3083.9
35°	3312.3	3324.2	3354.6	3476.4	3608.4	3694.6	3559.3	3405.4	3312.3	3275.1	3268.3
37.5°	3496.7	3517.0	3532.2	3699.7	3858.7	3890.9	3760.6	3637.1	3523.8	3493.3	3476.4
40°	3757.2	3743.7	3748.8	3872.3	4016.1	4036.4	3907.8	3819.8	3726.8	3708.2	3708.2
42.5°	3972.1	3956.9	3973.8	4019.4	4129.4	4114.2	4043.1	3978.8	3939.9	3919.6	3939.9
45°	4102.3	4099.0	4129.4	4163.2	4241.1	4190.3	4134.5	4144.6	4107.4	4073.6	4071.9
47.5°	4244.4	4222.4	4259.7	4310.4	4251.2	4227.5	4224.1	4246.1	4234.3	4175.1	4156.5
50°	4313.8	4305.3	4364.5	4423.8	4391.6	4337.5	4349.3	4384.8	4232.6	4153.1	4107.4
52.5°	4499.9	4501.6	4614.9	4647.1	4633.5	4554.0	4579.4	4483.0	4303.6	4192.0	4197.1
55°	4792.5	4780.7	4907.6	5002.3	5017.5	4916.0	4794.2	4658.9	4433.9	4320.6	4286.7
57°	4631.8	4658.9	4799.3	5080.1	5222.2	5102.1	4836.5	4589.5	4290.1	4153.1	4092.2
57.5°	4417.0	4461.0	4704.6	4987.1	5136.0	5125.8	4784.1	4461.0	4193.7	3980.5	3985.6
60°	3236.2	3244.7	3464.6	3912.9	4378.1	4388.2	3972.1	3544.1	3246.3	3014.6	3046.7
62.5°	1706.9	1745.8	1833.8	2194.1	2596.7	2694.9	2442.8	2222.9	1965.7	1789.8	1806.7
65°	903.4	898.3	940.6	1042.1	1240.0	1290.8	1256.9	1082.7	993.0	964.3	966.0
67.5°	734.2	742.6	737.6	742.6	756.2	778.2	773.1	779.9	784.9	793.4	791.7
70°	622.5	622.5	625.9	627.6	627.6	637.8	649.6	671.6	673.3	681.7	685.1
72.5°	490.6	487.2	492.3	504.1	505.8	514.3	531.2	544.7	549.8	549.8	539.6
75°	333.3	336.6	343.4	353.6	363.7	378.9	392.5	400.9	404.3	399.2	394.2
77.5°	187.8	191.2	196.2	211.5	223.3	236.8	252.1	260.5	269.0	270.7	260.5
80°	111.7	111.7	120.1	132.0	145.5	159.0	172.6	182.7	186.1	186.1	181.0
82.5°	67.7	69.4	76.1	88.0	99.8	108.3	120.1	128.6	135.3	133.6	130.3
85°	35.5	35.5	42.3	52.4	60.9	69.4	69.4	64.3	60.9	52.4	49.1
87.5°	11.8	10.2	13.5	13.5	11.8	13.5	13.5	15.2	15.2	15.2	15.2
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)