

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: P530539

Luminaire Tested: **GALN-SA5D-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18825 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

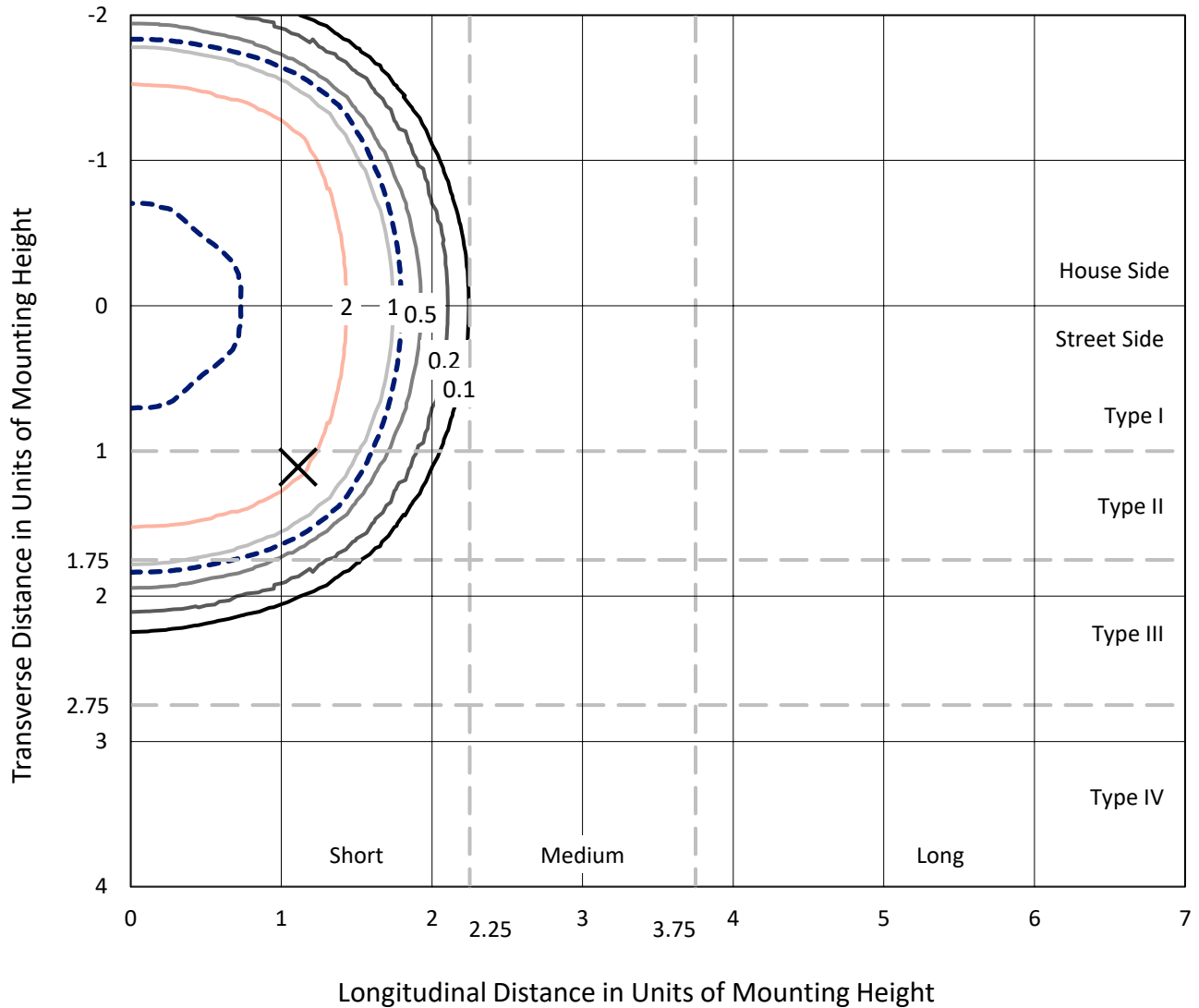
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

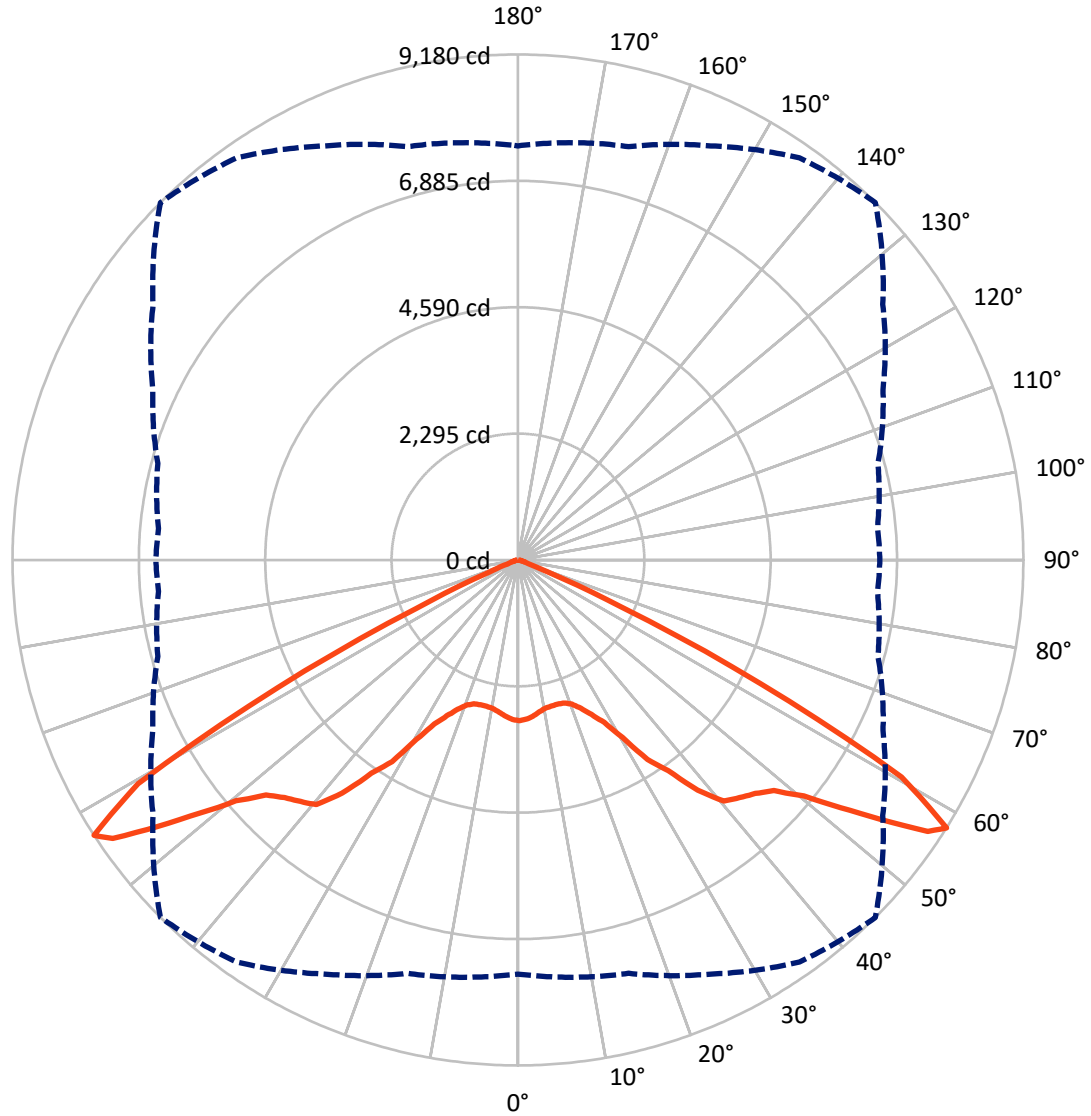
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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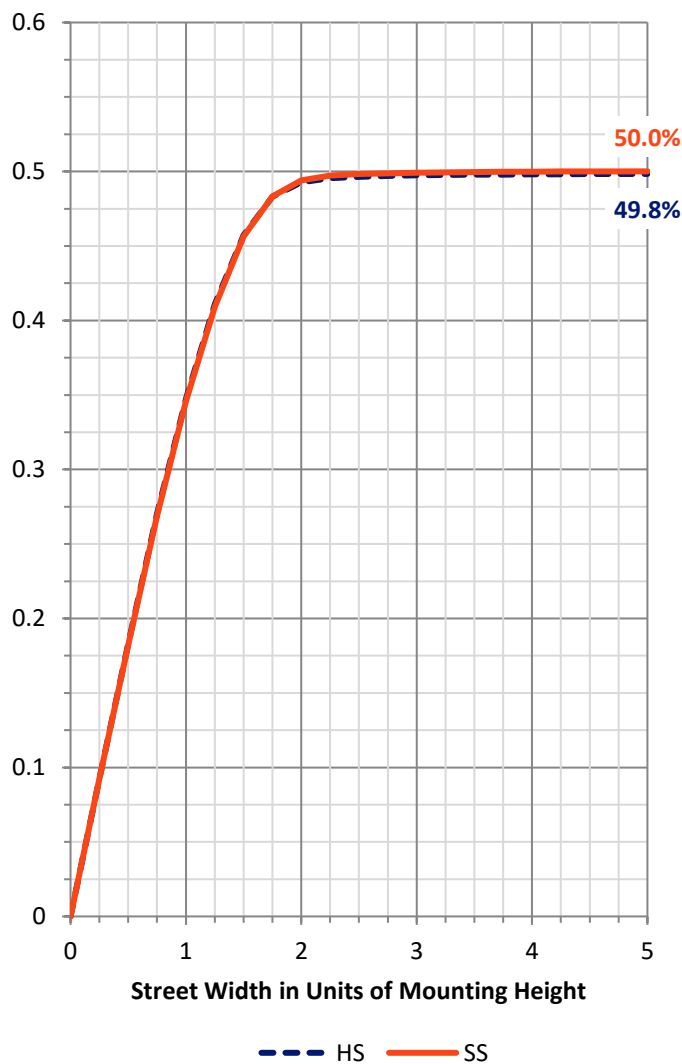
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9412.5	0.0	9412.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9412.5	0.0	9412.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18825.0	0.0	18825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	1.4
10°-20°	775.6	4.1
20°-30°	1431.6	7.6
30°-40°	2815.5	15.0
40°-50°	4585.7	24.4
50°-60°	6539.8	34.7
60°-70°	2264.2	12.0
70°-80°	121.5	0.6
80°-90°	22.8	0.1
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°	18825.0	100.0
0°-180°	18825.0	100.0

Coefficient of Utilization

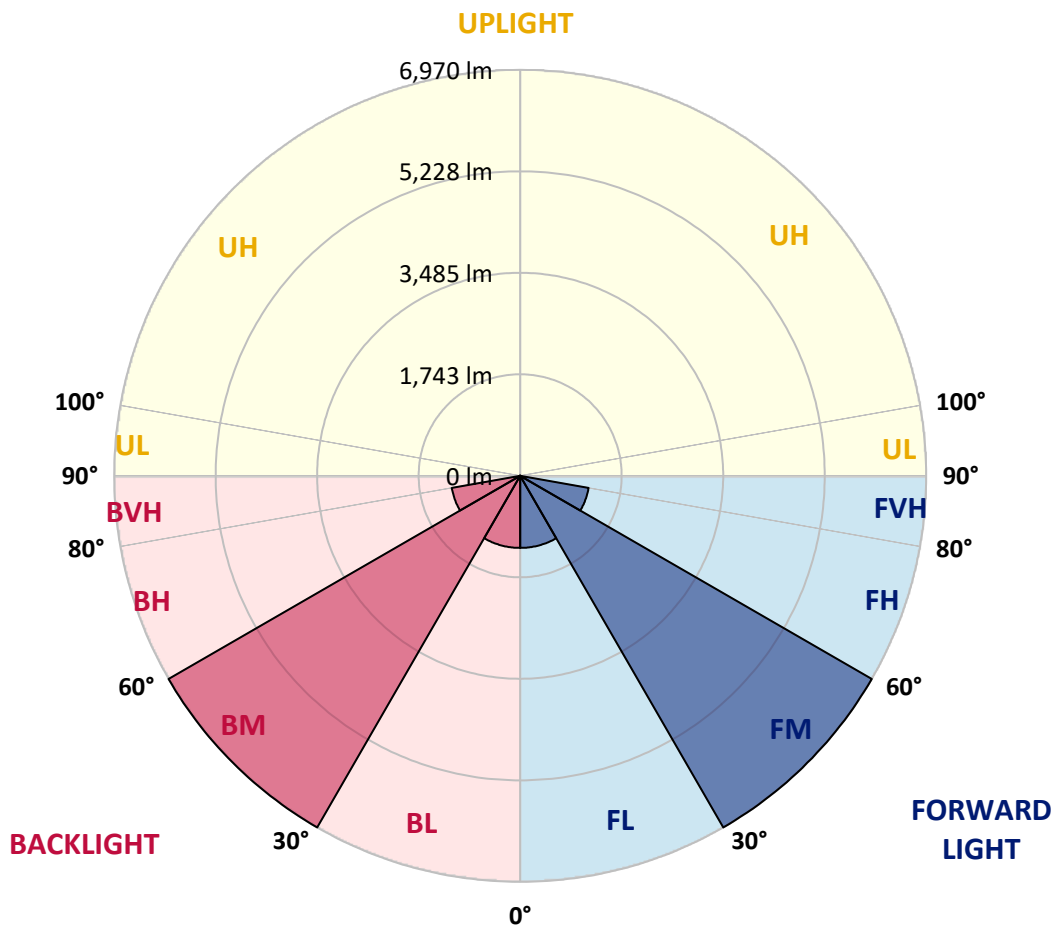


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.8	6.6			
FM (30°-60°)	6970.5	37.0			
FH (60°-80°)	1192.8	6.3			G1/1800
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	1237.8	6.6	B3/2500		
BM (30°-60°)	6970.5	37.0	B4/8500		
BH (60°-80°)	1192.8	6.3	B3/2500		G1/1800
BVH (80°-90°)	11.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0
2.5°	2912.1	2927.8	2908.2	2900.3	2896.4	2896.4	2884.6	2884.6	2880.7	2884.6	2868.9
5°	2865.0	2880.7	2880.7	2876.8	2853.2	2849.3	2837.5	2829.7	2833.6	2817.9	2829.7
7.5°	2817.9	2829.7	2814.0	2810.1	2802.2	2786.5	2782.6	2747.3	2751.2	2751.2	2759.0
10°	2810.1	2806.1	2782.6	2763.0	2739.4	2735.5	2723.7	2715.9	2715.9	2711.9	2723.7
12.5°	2810.1	2790.4	2786.5	2743.3	2704.1	2719.8	2688.4	2668.8	2696.2	2704.1	2719.8
15°	2806.1	2825.8	2759.0	2739.4	2711.9	2715.9	2688.4	2668.8	2684.5	2692.3	2704.1
17.5°	2829.7	2817.9	2798.3	2759.0	2747.3	2731.6	2696.2	2680.5	2680.5	2700.2	2704.1
20°	2892.5	2861.1	2821.8	2802.2	2814.0	2794.4	2751.2	2692.3	2708.0	2723.7	2735.5
22.5°	2951.4	2927.8	2900.3	2888.6	2955.3	2923.9	2849.3	2782.6	2759.0	2786.5	2806.1
25°	3065.2	3065.2	3014.1	3029.8	3104.4	3108.3	3022.0	2904.3	2888.6	2900.3	2908.2
27.5°	3296.7	3308.5	3265.3	3281.0	3312.4	3339.9	3265.3	3167.2	3131.9	3128.0	3139.7
30°	3547.9	3571.4	3567.5	3634.2	3724.5	3740.2	3630.3	3469.4	3363.4	3343.8	3359.5
32.5°	3877.6	3889.3	3881.5	3960.0	4203.3	4317.1	4030.6	3803.0	3661.7	3697.0	3661.7
35°	4497.7	4485.9	4399.6	4415.3	4615.4	4697.8	4423.1	4277.9	4211.2	4281.8	4266.1
37.5°	5031.4	4988.3	4917.6	5019.7	5227.7	5302.2	5015.7	4760.6	4639.0	4756.7	4807.7
40°	5482.8	5372.9	5274.8	5376.8	5655.4	5757.5	5337.6	5129.5	5082.4	5168.8	5278.7
42.5°	5863.5	5792.8	5663.3	5671.1	5855.6	5902.7	5565.2	5443.5	5396.4	5533.8	5588.7
45°	6134.3	6067.5	5945.9	5938.0	6079.3	6047.9	5745.7	5663.3	5690.8	5781.0	5808.5
47.5°	6271.6	6306.9	6236.3	6255.9	6330.5	6255.9	6016.5	6016.5	5953.7	6008.7	5981.2
50°	6668.0	6558.1	6648.4	6648.4	6726.9	6734.7	6495.3	6409.0	6240.2	6146.0	6146.0
52.5°	7131.1	7139.0	7174.3	7303.8	7437.3	7551.1	7209.6	6840.7	6558.1	6436.5	6420.8
55°	7511.8	7590.3	7731.6	7974.9	8359.5	8516.5	7927.8	7268.5	6923.1	6734.7	6695.5
56°	7719.8	7645.3	7888.6	8222.2	8724.5	8928.6	8045.6	7354.8	6974.1	6762.2	6758.3
57.5°	7519.7	7602.1	7770.8	8296.8	8912.9	9179.8	8088.7	7315.6	6770.1	6554.2	6573.8
60°	5938.0	6016.5	6244.2	6832.9	7798.3	8006.3	6844.6	6032.2	5545.6	5235.5	5239.4
62.5°	3359.5	3418.4	3595.0	4140.5	4741.0	4941.2	4266.1	3724.5	3387.0	3214.3	3159.4
65°	1236.3	1212.7	1240.2	1518.8	1887.8	2056.5	1774.0	1499.2	1322.6	1259.8	1236.3
67.5°	463.1	427.8	400.3	427.8	537.7	569.1	522.0	435.6	408.2	419.9	427.8
70°	286.5	270.8	215.9	204.1	200.2	196.2	208.0	219.8	251.2	294.4	302.2
72.5°	200.2	188.4	153.1	145.2	137.4	133.4	153.1	168.8	196.2	227.6	231.6
75°	78.5	82.4	78.5	86.3	90.3	94.2	109.9	121.7	133.4	133.4	129.5
77.5°	15.7	15.7	23.5	31.4	39.2	51.0	74.6	86.3	90.3	86.3	74.6
80°	0.0	0.0	7.8	15.7	31.4	43.2	66.7	74.6	82.4	74.6	58.9
82.5°	0.0	0.0	7.8	19.6	31.4	39.2	62.8	78.5	90.3	82.4	62.8
85°	0.0	0.0	7.8	15.7	23.5	27.5	27.5	19.6	19.6	11.8	7.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)