

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: P647431

Luminaire Tested: **GALN-SA5D-835-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19603.2 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

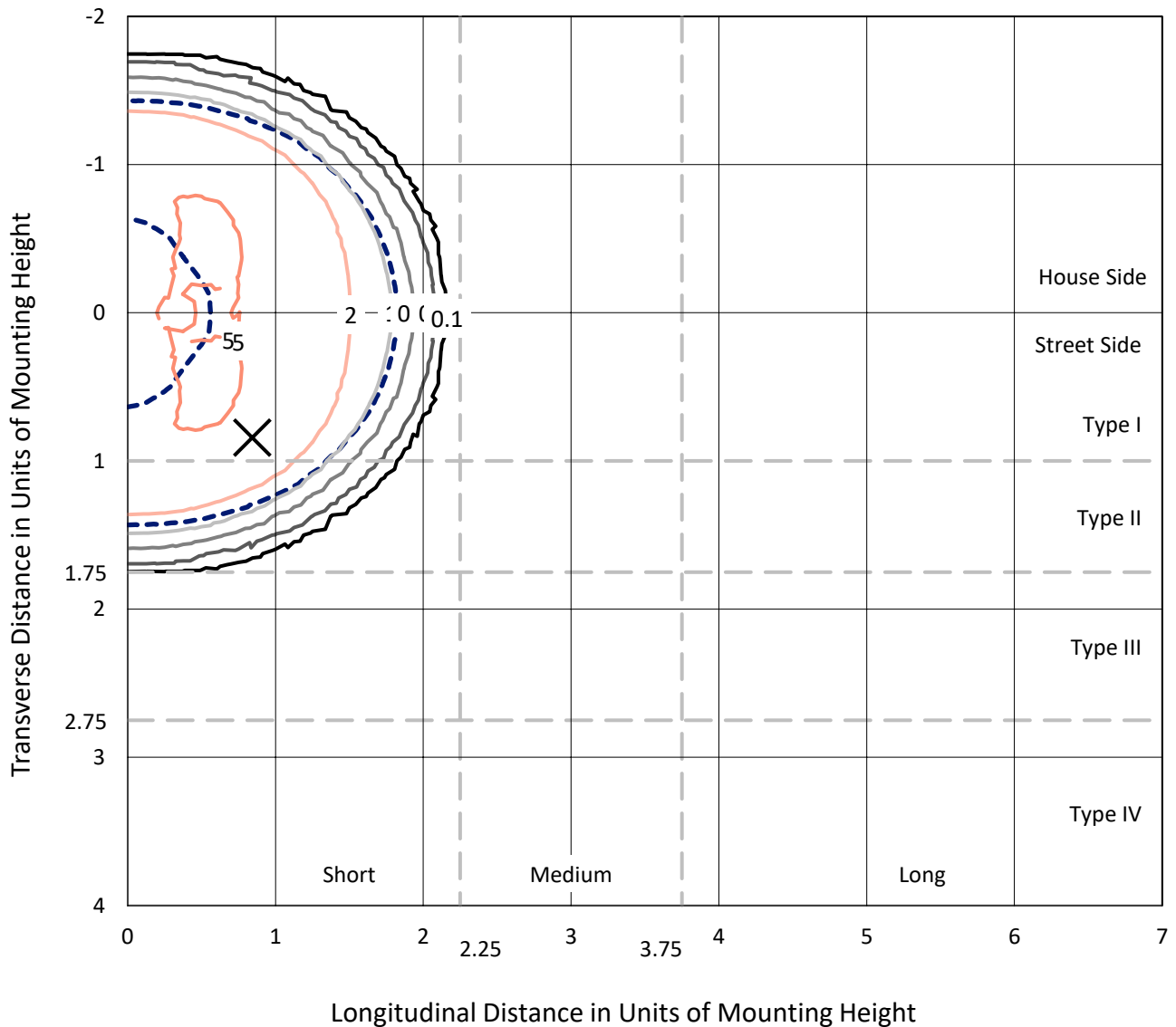
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

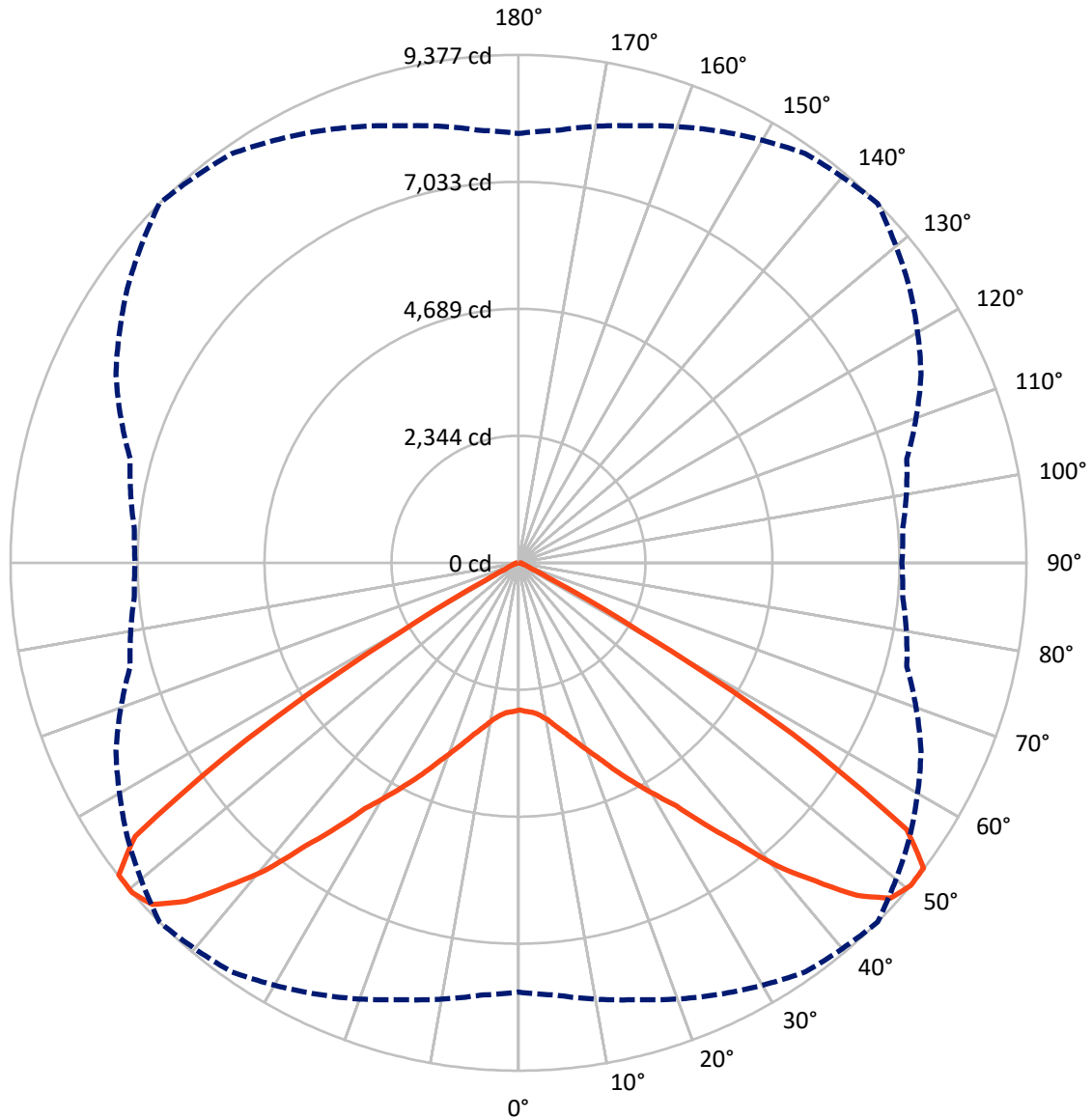
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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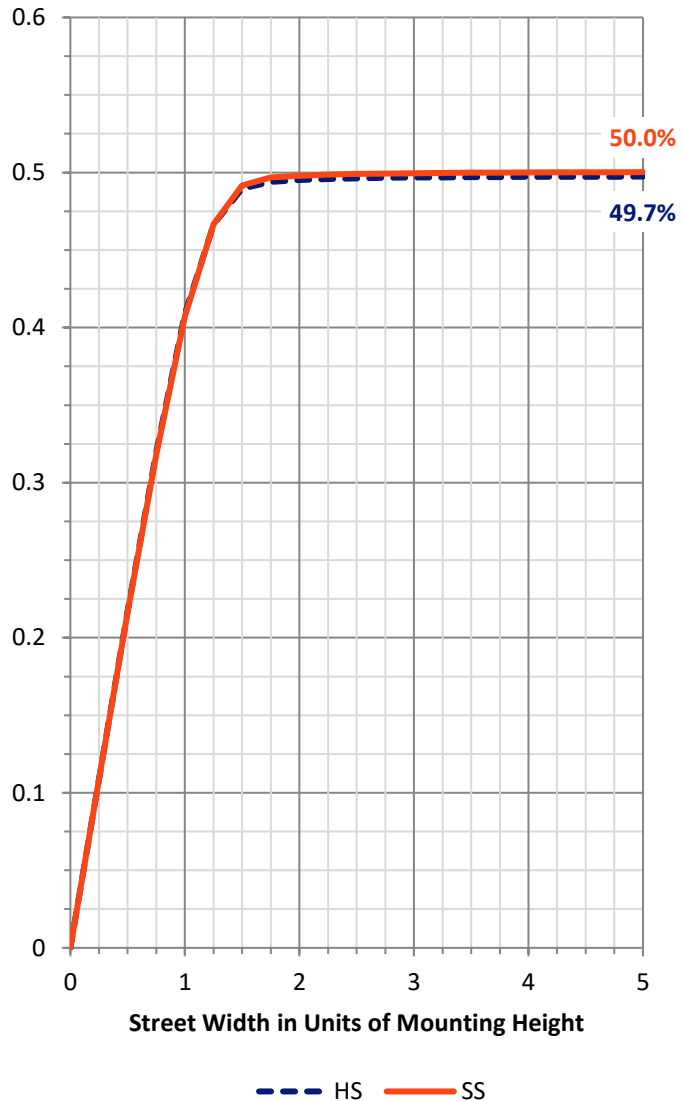
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9801.6	0.0	9801.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9801.6	0.0	9801.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	19603.2	0.0	19603.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	1.4
10°-20°	931.9	4.8
20°-30°	1903.3	9.7
30°-40°	3629.5	18.5
40°-50°	6116.2	31.2
50°-60°	5832.9	29.8
60°-70°	814.2	4.2
70°-80°	77.9	0.4
80°-90°	26.9	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°	19603.2	100.0
0°-180°	19603.2	100.0

Coefficient of Utilization



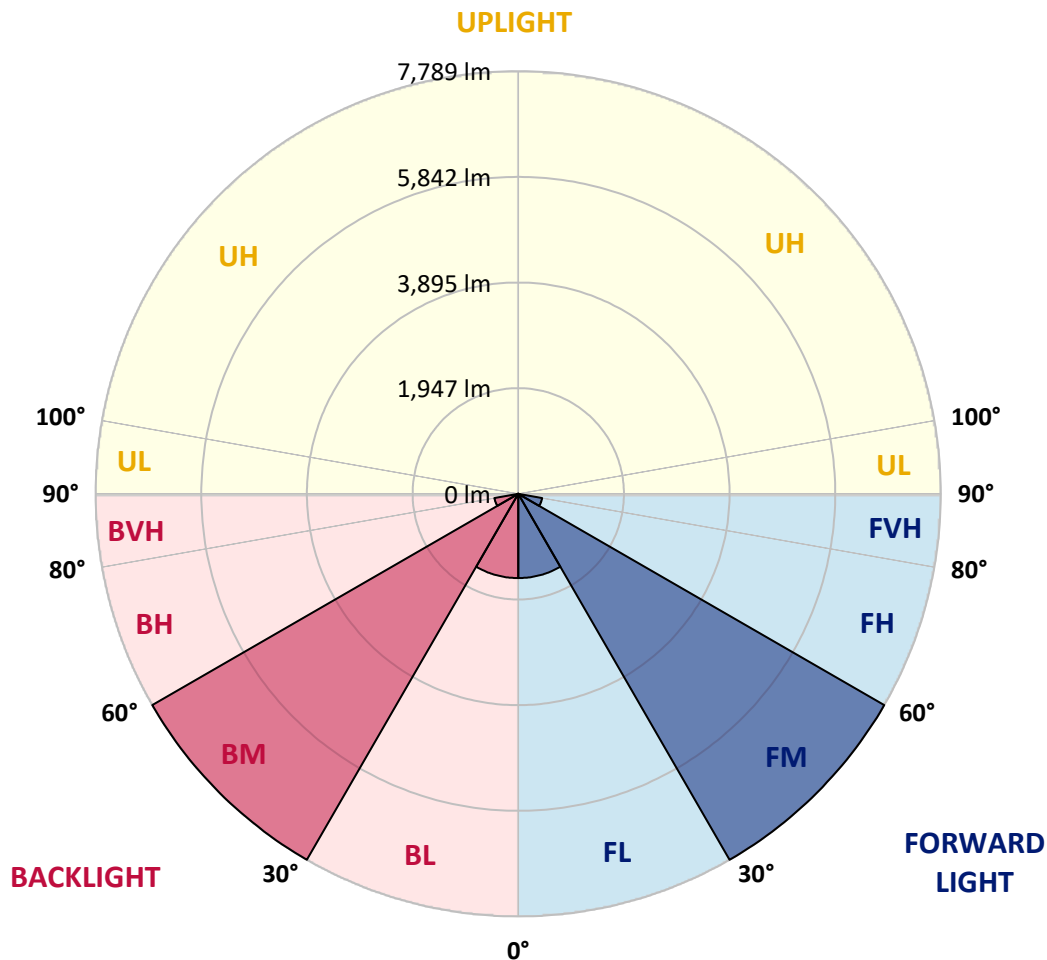
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.8	7.9			
FM (30°-60°)	7789.3	39.7			
FH (60°-80°)	446.1	2.3			G0/660
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	1552.8	7.9	B3/2500		
BM (30°-60°)	7789.3	39.7	B4/8500		
BH (60°-80°)	446.1	2.3	B1/500		G0/660
BVH (80°-90°)	13.5	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°	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8
2.5°	2707.8	2707.8	2704.6	2730.9	2717.8	2747.5	2744.2	2754.0	2763.9	2760.6	2787.0
5°	2684.8	2681.5	2681.5	2711.1	2740.9	2773.9	2803.5	2823.3	2856.3	2856.3	2889.3
7.5°	2707.8	2691.4	2714.5	2727.7	2783.7	2839.8	2889.3	2928.9	3004.7	3031.1	3021.2
10°	2714.5	2734.2	2750.8	2790.3	2859.6	2945.3	2988.2	3087.1	3173.0	3232.3	3245.5
12.5°	2757.3	2787.0	2833.2	2928.9	2991.5	3103.7	3163.0	3258.7	3377.4	3443.4	3489.6
15°	2839.8	2849.7	2909.1	3031.1	3166.3	3268.6	3360.9	3430.2	3545.7	3621.5	3624.8
17.5°	2945.3	2988.2	3070.7	3186.1	3327.9	3479.7	3552.2	3628.1	3670.9	3773.2	3796.3
20°	3156.4	3163.0	3242.2	3393.9	3572.0	3710.6	3763.3	3802.9	3786.4	3892.0	3911.7
22.5°	3354.3	3360.9	3459.8	3664.4	3855.6	3974.4	3997.5	3974.4	3924.9	4000.8	4007.4
25°	3555.5	3614.9	3687.5	3892.0	4129.4	4287.7	4291.1	4228.4	4126.1	4139.3	4172.3
27.5°	3868.9	3911.7	3987.6	4175.6	4436.2	4614.3	4584.5	4508.7	4376.8	4386.7	4376.8
30°	4234.9	4274.6	4337.2	4578.0	4769.3	4963.9	5006.7	4934.2	4736.3	4693.5	4742.9
32.5°	4676.9	4733.0	4848.4	5069.5	5231.1	5349.8	5379.4	5353.1	5168.3	5151.9	5184.9
35°	5214.5	5290.4	5396.0	5590.5	5722.5	5936.9	5936.9	5847.8	5679.6	5699.4	5696.1
37.5°	5781.8	5894.0	6058.9	6256.8	6434.9	6550.3	6514.1	6438.2	6270.0	6227.1	6270.0
40°	6494.3	6550.3	6758.2	7015.4	7233.1	7365.0	7210.0	7045.1	6642.7	6705.4	6820.8
42.5°	7144.0	7233.1	7391.4	7675.0	7922.4	8031.2	7846.6	7520.0	7035.2	6985.7	7071.5
45°	7698.1	7793.8	8001.6	8407.2	8667.8	8763.5	8354.5	7826.8	7272.7	7147.3	7183.6
47.5°	8067.6	8117.0	8407.2	8793.2	9030.7	9248.3	8661.2	8037.9	7384.8	7147.3	7134.1
50°	7925.7	8011.5	8351.2	8789.9	9221.9	9377.0	8816.3	8199.5	7421.1	7117.6	7078.1
52.5°	7038.5	7186.9	7566.2	8156.6	8809.7	9363.7	9030.7	8146.7	7407.9	7147.3	7206.7
55°	4897.9	4901.2	5363.0	6233.7	7388.1	8694.2	8717.3	8206.1	7493.6	7332.0	7335.3
57.5°	1969.1	2068.0	2421.0	3294.9	4360.3	5969.8	7097.8	7612.4	7503.6	7463.9	7566.2
60°	498.1	501.4	610.2	930.1	1533.7	2559.5	3717.1	5029.8	5791.8	6052.3	6088.6
62.5°	253.9	257.3	283.7	329.8	418.9	686.1	1220.4	1936.0	2754.0	3169.7	3278.5
65°	207.8	207.8	224.3	247.3	250.6	263.9	316.6	451.9	656.4	745.4	755.3
67.5°	158.3	158.3	171.5	184.7	191.3	188.0	181.4	188.0	227.6	217.7	211.1
70°	99.0	102.3	108.8	122.1	128.6	131.9	135.2	141.8	161.6	168.2	161.6
72.5°	59.4	59.4	62.6	72.6	82.4	89.0	99.0	105.5	115.4	131.9	128.6
75°	26.4	26.4	33.0	42.9	52.8	62.6	72.6	82.4	89.0	99.0	102.3
77.5°	6.6	9.9	16.5	29.7	39.5	52.8	65.9	75.9	82.4	82.4	79.2
80°	3.3	3.3	13.2	23.1	42.9	56.1	72.6	79.2	89.0	82.4	72.6
82.5°	3.3	3.3	13.2	23.1	39.5	56.1	75.9	85.7	92.3	82.4	69.3
85°	0.0	3.3	9.9	19.8	33.0	39.5	33.0	23.1	13.2	13.2	9.9
87.5°	0.0	0.0	3.3	3.3	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)