

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: P530301

Luminaire Tested: **GALN-SA5C-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19684 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

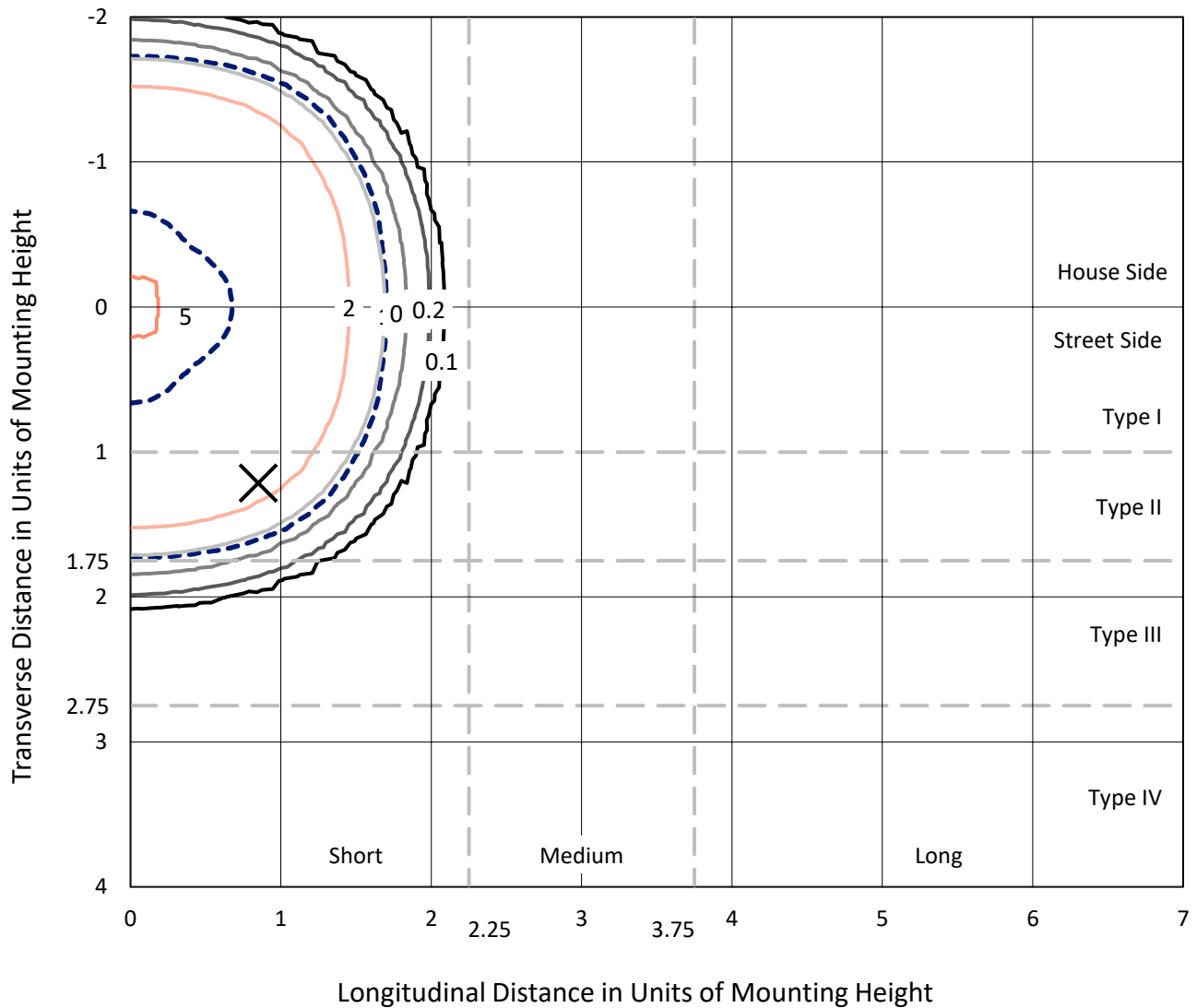
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

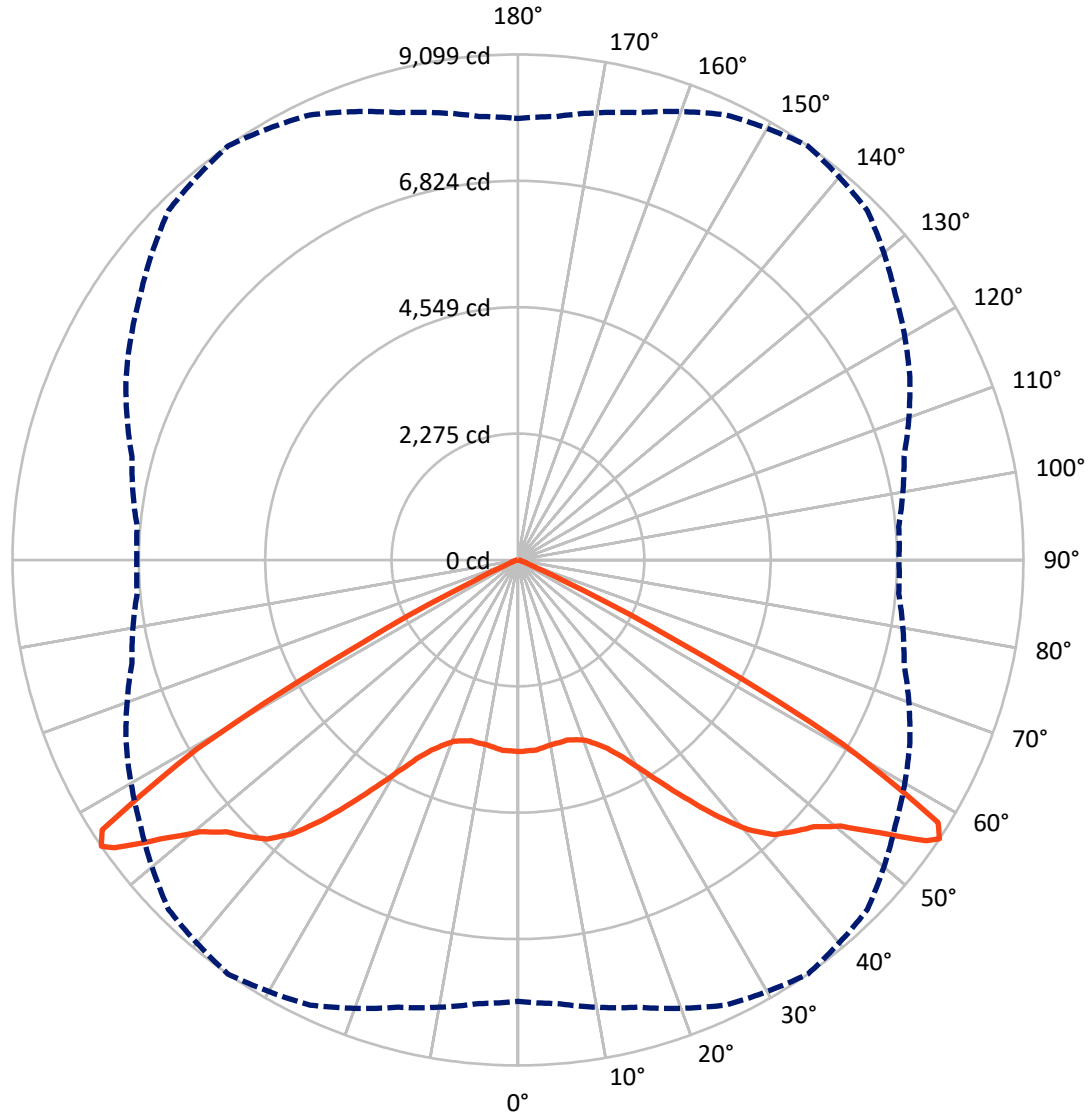
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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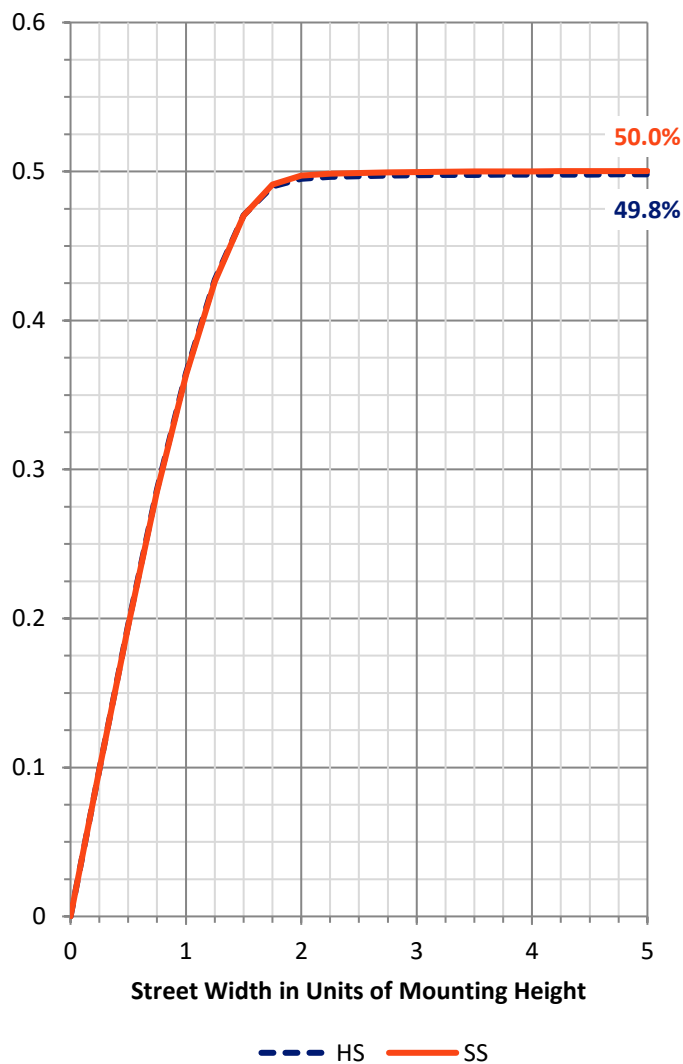
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9842.0	0.0	9842.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9842.0	0.0	9842.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19684.0	0.0	19684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.2	1.6
10°-20°	946.4	4.8
20°-30°	1713.8	8.7
30°-40°	3178.0	16.1
40°-50°	5216.4	26.5
50°-60°	6720.3	34.1
60°-70°	1481.1	7.5
70°-80°	85.9	0.4
80°-90°	18.1	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°	19684.0	100.0
0°-180°	19684.0	100.0

Coefficient of Utilization



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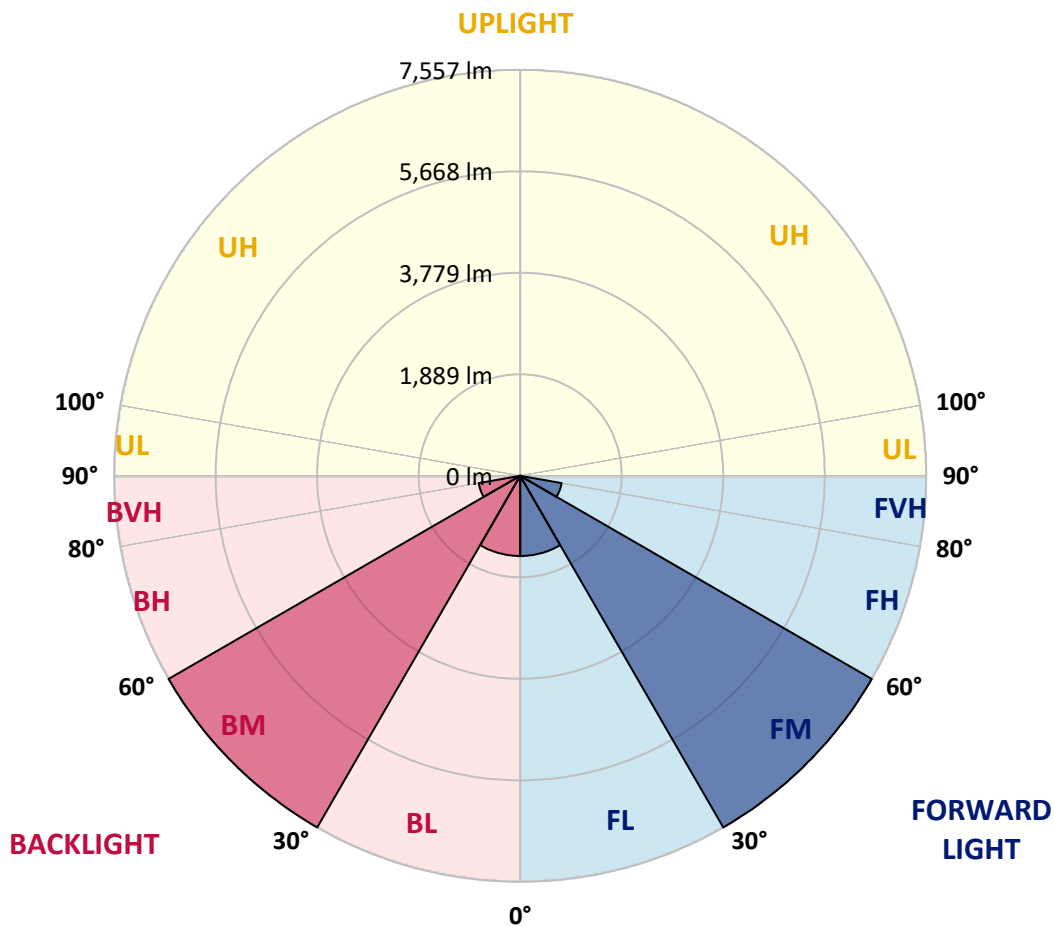
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.2	7.6			
FM (30°-60°)	7557.3	38.4			
FH (60°-80°)	783.5	4.0			G1/1800
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	1492.2	7.6	B3/2500		
BM (30°-60°)	7557.3	38.4	B4/8500		
BH (60°-80°)	783.5	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.0	0.0			G0/10
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°	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1	3449.1
2.5°	3456.2	3456.2	3459.8	3463.3	3438.4	3427.7	3431.2	3424.1	3420.5	3431.2	3431.2
5°	3445.5	3445.5	3434.8	3438.4	3438.4	3406.3	3406.3	3413.4	3413.4	3392.0	3384.9
7.5°	3417.0	3409.8	3395.6	3413.4	3402.7	3402.7	3377.7	3359.9	3352.8	3367.0	3352.8
10°	3356.3	3359.9	3374.2	3381.3	3374.2	3395.6	3352.8	3327.8	3302.8	3292.1	3292.1
12.5°	3327.8	3349.2	3327.8	3345.6	3370.6	3352.8	3327.8	3310.0	3274.3	3260.0	3260.0
15°	3324.2	3338.5	3345.6	3370.6	3359.9	3367.0	3317.1	3295.7	3242.2	3217.2	3206.5
17.5°	3320.7	3338.5	3349.2	3395.6	3402.7	3406.3	3367.0	3302.8	3256.5	3231.5	3206.5
20°	3359.9	3367.0	3388.4	3434.8	3463.3	3513.3	3441.9	3374.2	3274.3	3245.8	3235.1
22.5°	3409.8	3445.5	3466.9	3516.8	3591.7	3634.5	3541.8	3456.2	3352.8	3317.1	3274.3
25°	3570.3	3563.2	3598.9	3702.3	3762.9	3795.0	3720.1	3595.3	3459.8	3417.0	3424.1
27.5°	3770.1	3777.2	3809.3	3923.4	4012.6	4062.5	3973.4	3809.3	3677.3	3606.0	3598.9
30°	4030.4	4023.3	4059.0	4212.3	4372.9	4447.8	4290.8	4098.2	3969.8	3877.1	3898.5
32.5°	4305.1	4308.7	4408.5	4547.6	4808.0	4954.2	4701.0	4465.6	4273.0	4208.8	4176.7
35°	4711.7	4729.5	4808.0	5022.0	5310.9	5499.9	5221.7	4940.0	4718.8	4601.1	4615.4
37.5°	5214.6	5196.8	5328.7	5560.6	5863.8	6002.9	5767.5	5446.4	5221.7	5143.3	5193.2
40°	5749.6	5767.5	5835.2	6045.7	6384.5	6477.2	6127.7	5952.9	5756.8	5717.5	5778.2
42.5°	6284.6	6273.9	6323.9	6512.9	6759.0	6694.8	6487.9	6384.5	6245.4	6166.9	6249.0
45°	6677.0	6659.1	6751.9	6880.3	6969.5	6848.2	6755.4	6719.8	6648.4	6562.8	6637.7
47.5°	7058.6	7044.4	7133.5	7169.2	7176.3	7015.8	7033.7	7097.9	6919.5	6741.2	6826.8
50°	7383.2	7358.2	7468.8	7547.3	7529.4	7272.6	7336.8	7272.6	6994.4	6784.0	6751.9
52.5°	7925.3	7936.0	8053.8	8196.4	8153.6	7939.6	7846.9	7554.4	7197.7	7008.7	6898.1
55°	8267.8	8214.3	8417.6	8870.5	8920.5	8699.3	8289.2	7857.6	7322.6	7090.7	7062.2
56°	7946.7	8014.5	8335.5	8842.0	9098.8	8895.5	8299.9	7782.7	7194.2	6880.3	6858.9
57.5°	7130.0	7094.3	7529.4	8221.4	8920.5	8834.9	8007.4	7247.7	6562.8	6209.7	6166.9
60°	4437.1	4540.5	4922.1	5778.2	6712.6	6755.4	5935.1	5282.4	4483.4	4169.5	4244.4
62.5°	1737.0	1647.8	1886.8	2525.3	3167.3	3310.0	2999.6	2493.2	2047.3	1737.0	1715.6
65°	403.0	392.3	442.3	609.9	852.5	988.0	938.1	674.1	495.8	470.8	435.1
67.5°	228.3	228.3	217.6	217.6	239.0	253.2	242.5	239.0	249.7	260.4	256.8
70°	160.5	156.9	149.8	153.4	146.2	146.2	156.9	174.8	189.0	189.0	192.6
72.5°	96.3	96.3	96.3	107.0	107.0	107.0	117.7	132.0	135.5	132.0	128.4
75°	42.8	42.8	49.9	60.6	67.8	71.3	82.0	89.2	96.3	89.2	82.0
77.5°	10.7	10.7	17.8	25.0	32.1	39.2	53.5	64.2	67.8	64.2	53.5
80°	3.6	3.6	7.1	17.8	32.1	39.2	53.5	57.1	60.6	53.5	42.8
82.5°	3.6	3.6	7.1	17.8	25.0	32.1	42.8	49.9	53.5	46.4	42.8
85°	0.0	3.6	7.1	14.3	21.4	28.5	28.5	21.4	17.8	10.7	14.3
87.5°	0.0	0.0	3.6	3.6	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)