

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: P459122

Luminaire Tested: **GALN-SA6B-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32967 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 243
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

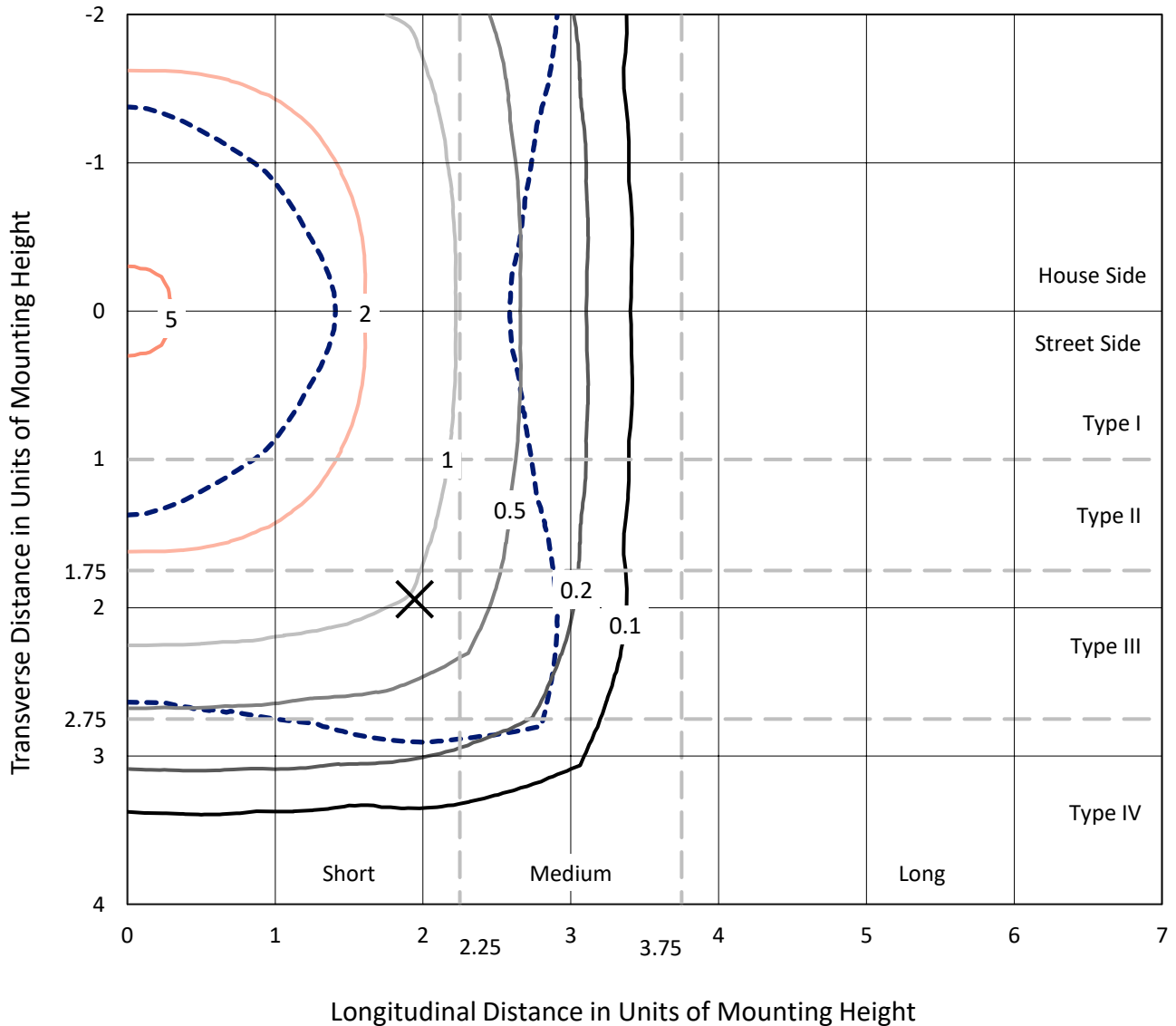




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Iso-Footcandle Lines of Horizontal Illumination

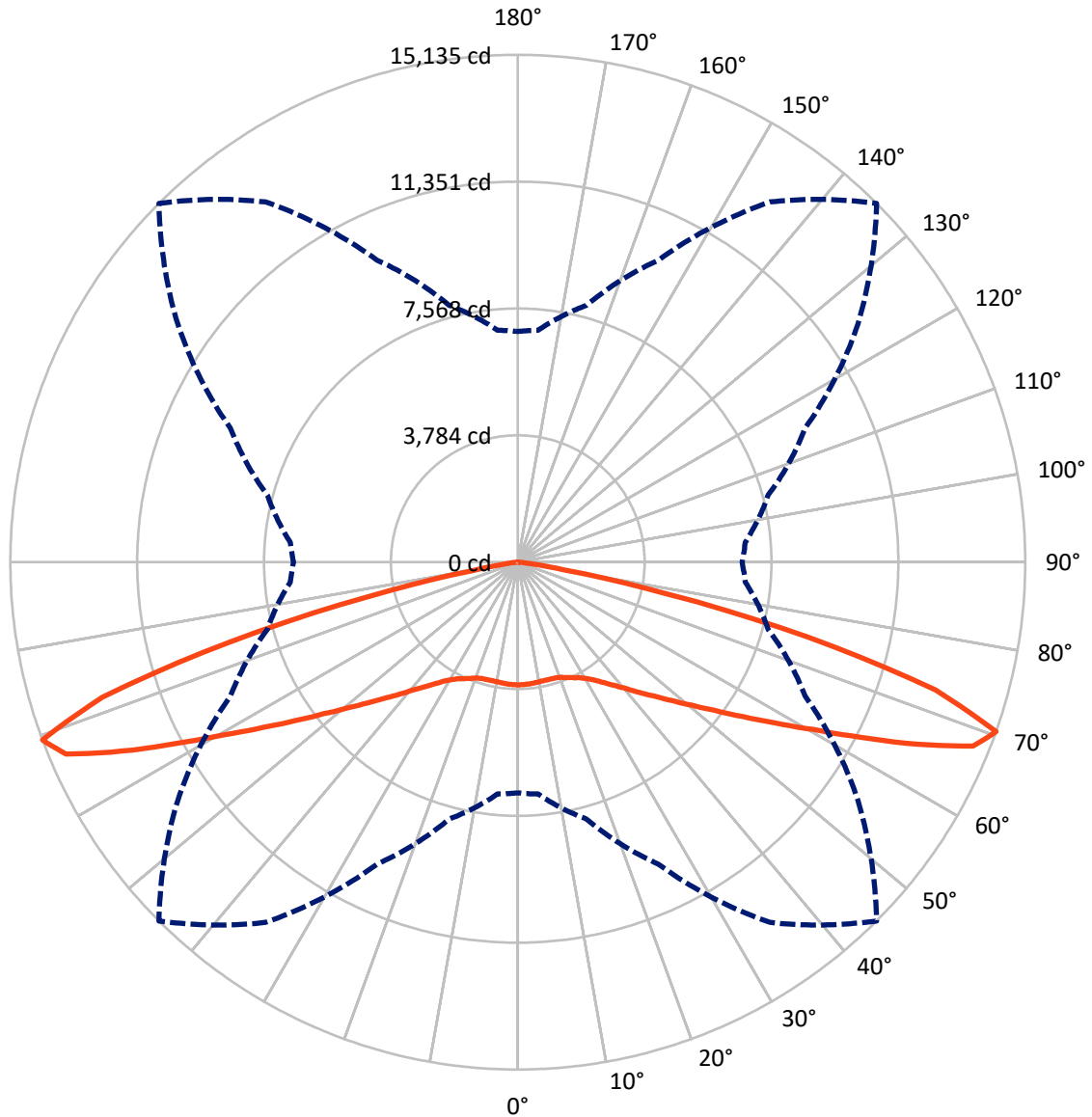
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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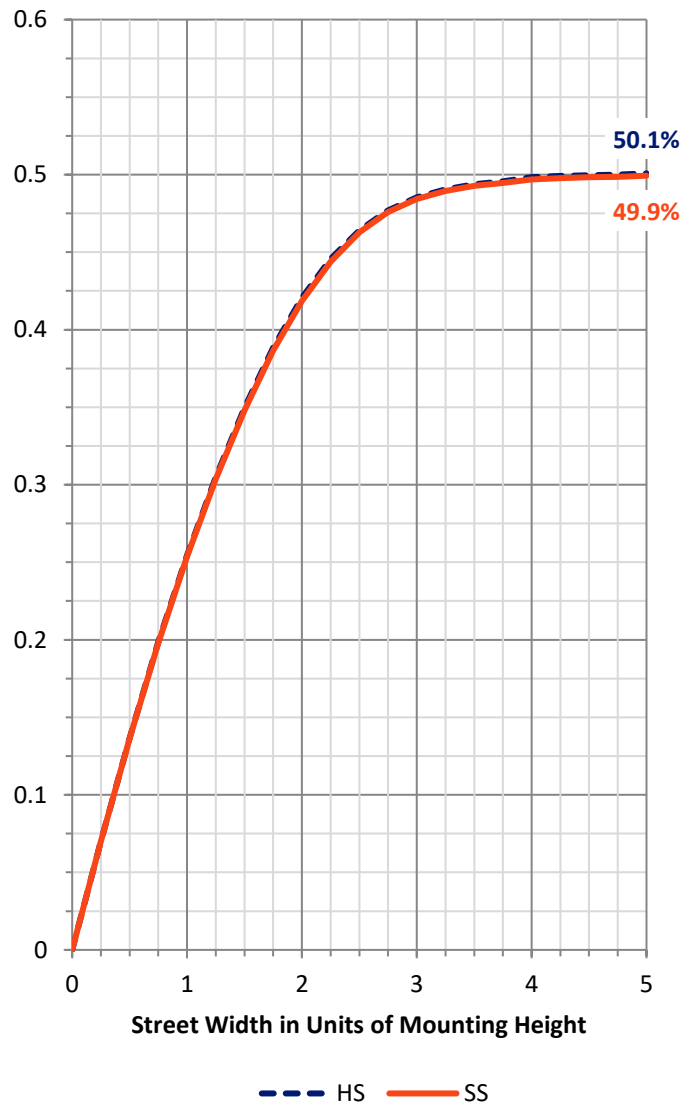
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16483.5	0.0	16483.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16483.5	0.0	16483.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32967.0	0.0	32967.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	1.1
10°-20°	1018.7	3.1
20°-30°	1742.3	5.3
30°-40°	2765.4	8.4
40°-50°	4461.3	13.5
50°-60°	7258.6	22.0
60°-70°	10522.3	31.9
70°-80°	4667.3	14.2
80°-90°	184.1	0.6
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°	32967.0	100.0
0°-180°	32967.0	100.0



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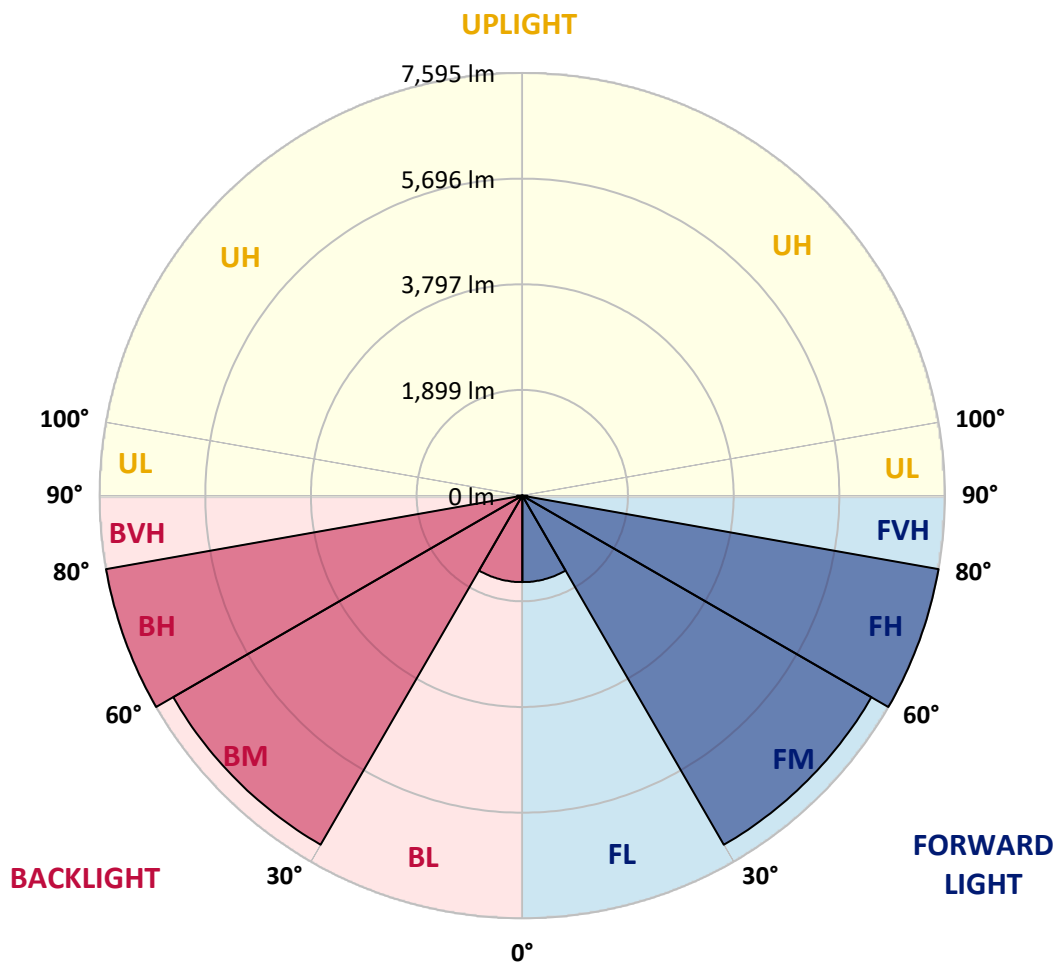
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1554.1	4.7			
FM	(30°-60°)	7242.6	22.0			
FH	(60°-80°)	7594.8	23.0			G4/12000
FVH	(80°-90°)	92.0	0.3			G1/100
BL	(0°-30°)	1554.1	4.7	B3/2500		
BM	(30°-60°)	7242.6	22.0	B4/8500		
BH	(60°-80°)	7594.8	23.0	B5		G4/12000
BVH	(80°-90°)	92.0	0.3			G1/100
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°	3660.8	3660.8	3660.8	3660.8	3660.8	3660.8	3660.8	3660.8	3660.8	3660.8	3660.8
2.5°	3660.8	3664.3	3659.1	3655.6	3653.9	3653.9	3652.1	3653.9	3664.3	3666.0	3660.8
5°	3650.4	3653.9	3652.1	3648.7	3646.9	3646.9	3645.2	3643.5	3652.1	3655.6	3653.9
7.5°	3636.5	3638.2	3636.5	3634.8	3636.5	3634.8	3629.6	3626.1	3633.0	3633.0	3631.3
10°	3612.2	3615.7	3613.9	3615.7	3619.1	3619.1	3612.2	3605.2	3607.0	3603.5	3603.5
12.5°	3582.6	3587.9	3589.6	3596.5	3605.2	3615.7	3600.0	3584.4	3580.9	3579.2	3577.4
15°	3563.5	3568.7	3575.7	3582.6	3598.3	3620.9	3598.3	3574.0	3567.0	3560.1	3556.6
17.5°	3558.3	3565.3	3575.7	3586.1	3607.0	3629.6	3610.4	3586.1	3568.7	3558.3	3554.8
20°	3572.2	3577.4	3593.1	3612.2	3641.7	3664.3	3645.2	3619.1	3593.1	3577.4	3572.2
22.5°	3600.0	3608.7	3627.8	3662.6	3704.3	3737.3	3711.2	3667.8	3626.1	3605.2	3598.3
25°	3660.8	3667.8	3690.4	3737.3	3785.9	3817.2	3789.4	3739.0	3681.7	3653.9	3645.2
27.5°	3752.9	3763.3	3787.7	3843.3	3883.2	3900.6	3881.5	3846.7	3805.0	3775.5	3768.6
30°	3883.2	3895.4	3931.9	3990.9	4017.0	4027.4	4018.7	3996.2	3966.6	3935.3	3928.4
32.5°	4058.7	4065.7	4107.4	4163.0	4187.3	4190.8	4180.3	4169.9	4121.3	4069.1	4065.7
35°	4255.0	4267.2	4317.6	4383.6	4406.2	4407.9	4387.1	4371.5	4314.1	4272.4	4272.4
37.5°	4515.7	4520.9	4569.5	4644.2	4668.6	4661.6	4651.2	4637.3	4576.5	4522.6	4524.3
40°	4821.5	4831.9	4873.6	4960.5	4960.5	4951.8	4958.7	4948.3	4887.5	4835.4	4837.1
42.5°	5184.6	5189.8	5240.2	5332.3	5325.3	5307.9	5314.9	5301.0	5262.8	5203.7	5182.8
45°	5572.0	5592.9	5679.8	5768.4	5754.5	5698.9	5726.7	5723.2	5688.4	5599.8	5605.0
47.5°	6039.4	6074.2	6157.6	6263.5	6247.9	6161.0	6192.3	6213.2	6164.5	6067.2	6049.8
50°	6565.9	6588.5	6711.8	6810.8	6796.9	6704.9	6776.1	6779.6	6657.9	6520.7	6520.7
52.5°	7127.1	7149.7	7316.4	7471.1	7479.8	7346.0	7403.3	7399.8	7201.8	7021.1	6986.3
55°	7756.0	7766.4	7981.9	8209.5	8258.2	8127.8	8134.8	8065.3	7808.1	7597.9	7578.8
57.5°	8405.8	8444.1	8682.1	8977.5	9121.7	9041.7	9005.3	8819.4	8570.9	8329.4	8317.2
60°	9125.1	9126.9	9436.1	9785.4	10077.3	10131.1	9981.7	9733.3	9411.8	9092.1	9078.2
62.5°	9623.8	9698.5	10089.4	10680.2	11203.1	11505.5	11111.1	10589.8	9957.4	9441.4	9389.2
65°	9726.3	9776.7	10372.6	11373.4	12442.0	13093.5	12181.3	11072.8	9993.9	9305.8	9271.1
67.5°	8897.5	8951.4	9754.1	11290.0	13310.7	14646.8	12876.3	10840.0	9375.3	8524.0	8456.2
70°	6882.1	6942.9	7935.0	9938.3	13117.8	15135.0	12381.1	9455.3	7731.7	6812.6	6689.2
72.5°	3659.1	3883.2	4731.1	6821.3	10647.2	13031.0	10152.0	6899.5	4986.5	4076.1	3912.8
75°	1336.1	1363.9	1836.5	3024.9	6194.0	8935.8	6432.1	3290.8	1892.1	1461.2	1386.5
77.5°	552.5	550.8	604.6	913.9	2250.0	4576.5	2510.6	966.0	602.9	557.7	550.8
80°	326.6	326.6	359.7	380.5	592.5	1381.3	662.0	430.9	361.4	330.1	335.3
82.5°	145.9	154.6	227.6	239.8	286.7	378.8	319.7	274.5	236.3	163.3	147.7
85°	79.9	69.5	119.9	125.1	137.3	140.7	151.2	149.4	137.3	79.9	81.7
87.5°	15.6	19.1	34.7	26.1	29.5	26.1	34.7	48.6	50.4	27.8	22.6
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)