

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: P533815

Luminaire Tested: **GALN-SA9B-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533815
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-SA9B-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA 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: 25066 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

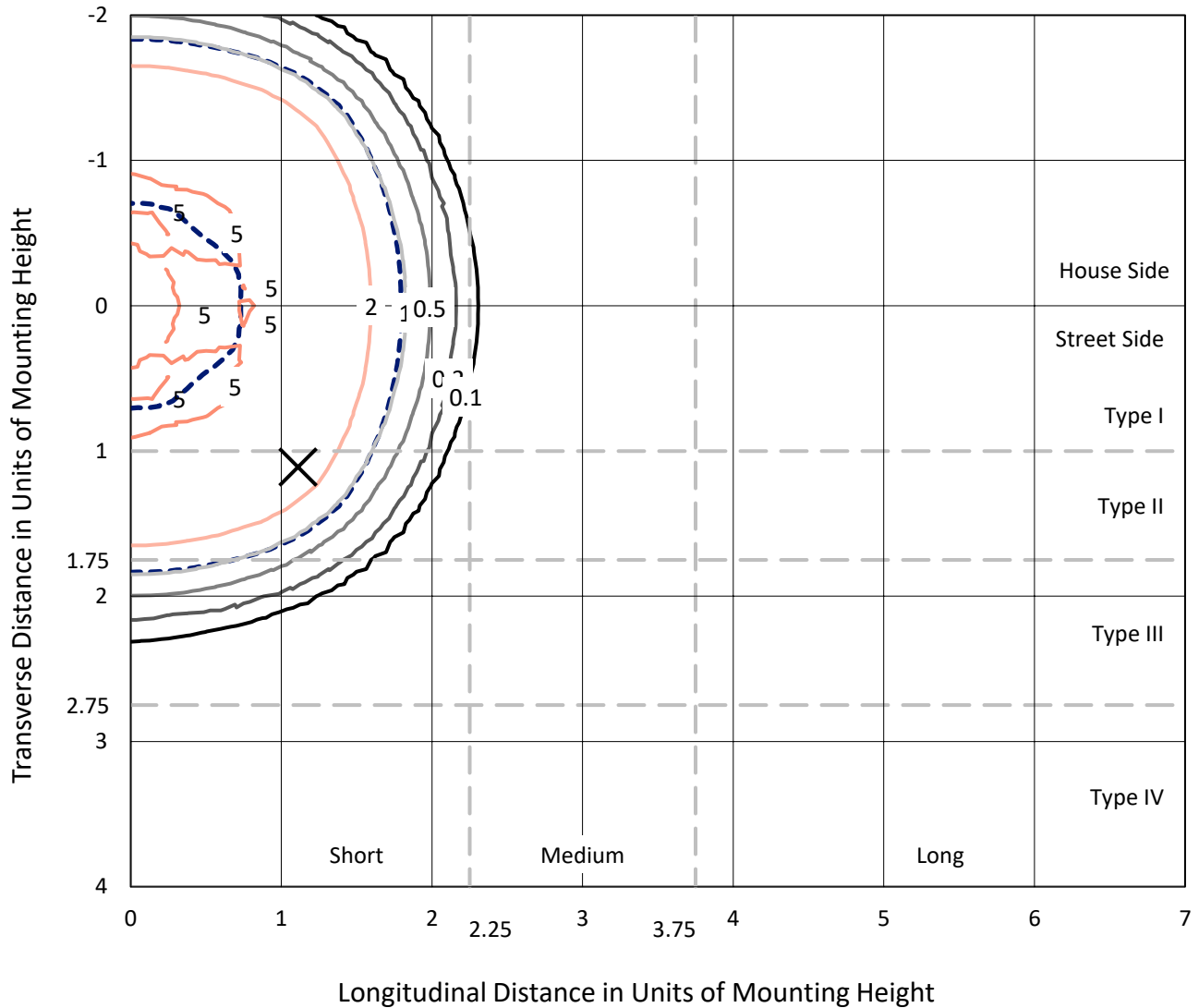
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

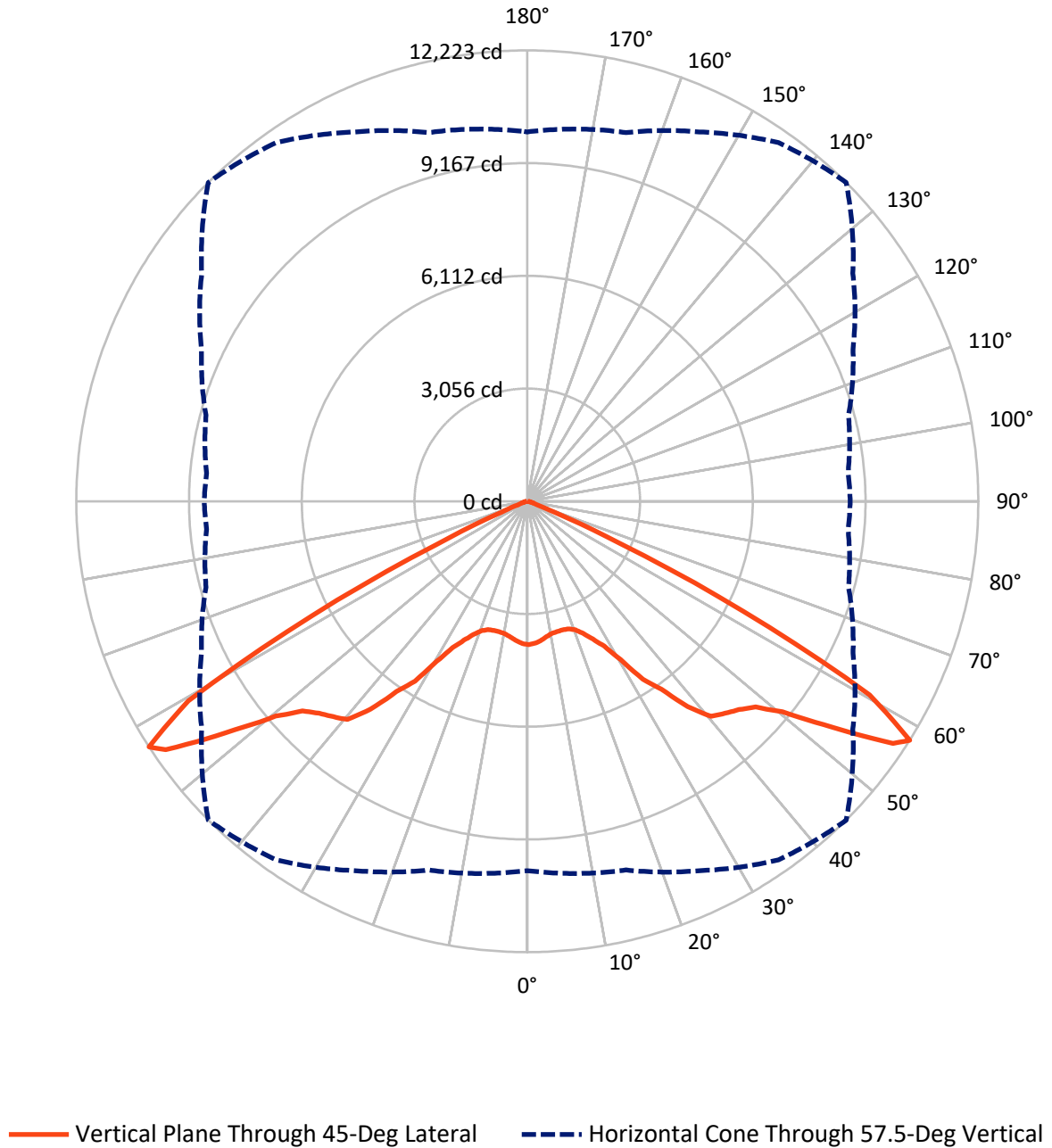
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12533.0	0.0	12533.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12533.0	0.0	12533.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25066.0	0.0	25066.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	1.4
10°-20°	1032.7	4.1
20°-30°	1906.3	7.6
30°-40°	3748.9	15.0
40°-50°	6106.0	24.4
50°-60°	8707.9	34.7
60°-70°	3014.9	12.0
70°-80°	161.7	0.6
80°-90°	30.4	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°	25066.0	100.0
0°-180°	25066.0	100.0



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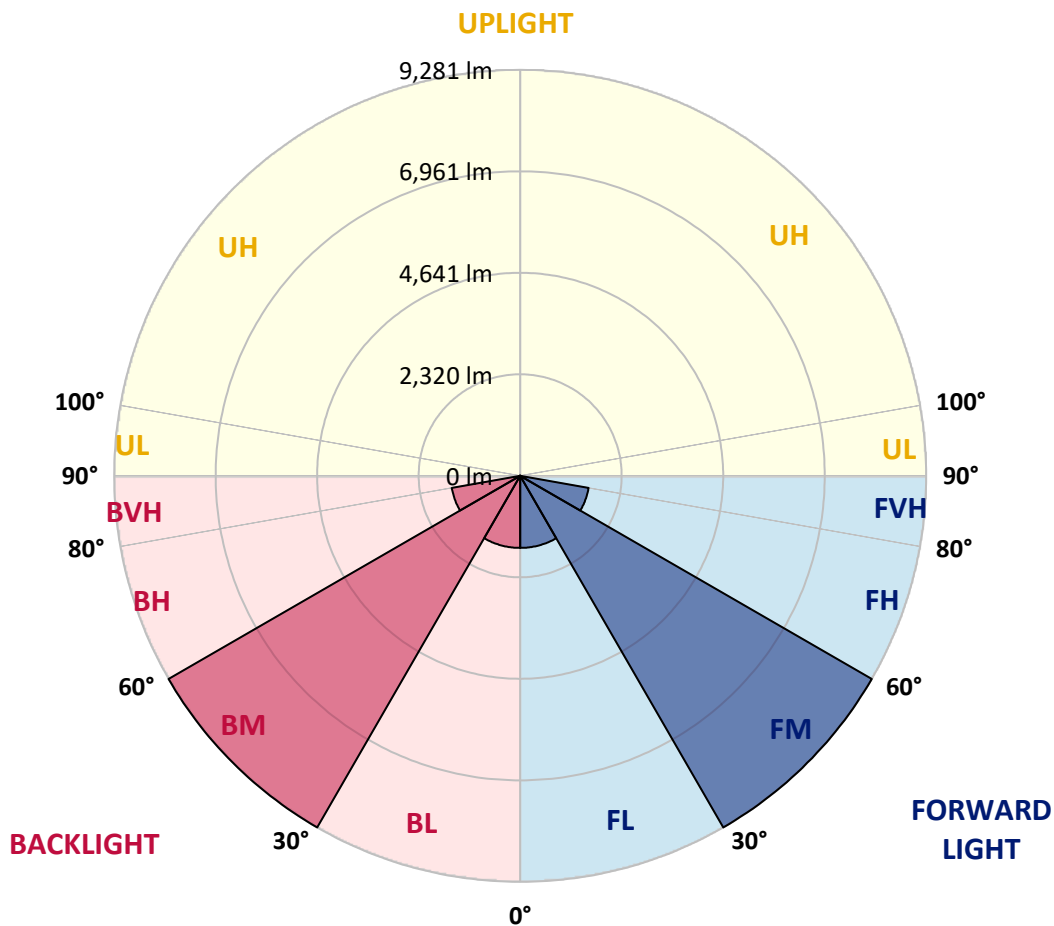
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1648.1	6.6			
FM (30°-60°)	9281.4	37.0			
FH (60°-80°)	1588.3	6.3			G1/1800
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	1648.1	6.6	B3/2500		
BM (30°-60°)	9281.4	37.0	B5		
BH (60°-80°)	1588.3	6.3	B3/2500		G1/1800
BVH (80°-90°)	15.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0
2.5°	3877.5	3898.5	3872.3	3861.9	3856.6	3856.6	3841.0	3841.0	3835.7	3841.0	3820.1
5°	3814.8	3835.7	3835.7	3830.5	3799.2	3793.9	3778.3	3767.8	3773.0	3752.1	3767.8
7.5°	3752.1	3767.8	3746.9	3741.7	3731.2	3710.3	3705.1	3658.1	3663.3	3663.3	3673.7
10°	3741.7	3736.5	3705.1	3679.0	3647.6	3642.4	3626.7	3616.3	3616.3	3611.0	3626.7
12.5°	3741.7	3715.5	3710.3	3652.8	3600.6	3621.5	3579.7	3553.5	3590.1	3600.6	3621.5
15°	3736.5	3762.6	3673.7	3647.6	3611.0	3616.3	3579.7	3553.5	3574.5	3584.9	3600.6
17.5°	3767.8	3752.1	3726.0	3673.7	3658.1	3637.2	3590.1	3569.2	3569.2	3595.4	3600.6
20°	3851.4	3809.6	3757.4	3731.2	3746.9	3720.8	3663.3	3584.9	3605.8	3626.7	3642.4
22.5°	3929.8	3898.5	3861.9	3846.2	3935.0	3893.2	3793.9	3705.1	3673.7	3710.3	3736.5
25°	4081.4	4081.4	4013.4	4034.3	4133.6	4138.8	4023.9	3867.1	3846.2	3861.9	3872.3
27.5°	4389.7	4405.4	4347.9	4368.8	4410.6	4447.2	4347.9	4217.2	4170.2	4165.0	4180.6
30°	4724.1	4755.5	4750.3	4839.1	4959.3	4980.2	4833.9	4619.6	4478.5	4452.4	4473.3
32.5°	5163.1	5178.8	5168.3	5272.8	5596.8	5748.4	5366.9	5063.8	4875.7	4922.7	4875.7
35°	5988.8	5973.1	5858.1	5879.0	6145.5	6255.3	5889.5	5696.1	5607.3	5701.4	5680.5
37.5°	6699.5	6642.0	6547.9	6683.8	6960.8	7060.1	6678.6	6338.9	6176.9	6333.7	6401.6
40°	7300.4	7154.1	7023.5	7159.4	7530.4	7666.3	7107.1	6830.1	6767.4	6882.4	7028.7
42.5°	7807.4	7713.3	7540.8	7551.3	7796.9	7859.6	7410.2	7248.2	7185.5	7368.4	7441.5
45°	8167.9	8079.1	7917.1	7906.6	8094.8	8053.0	7650.6	7540.8	7577.4	7697.6	7734.2
47.5°	8350.8	8397.9	8303.8	8329.9	8429.2	8329.9	8011.2	8011.2	7927.5	8000.7	7964.1
50°	8878.6	8732.3	8852.5	8852.5	8957.0	8967.5	8648.7	8533.7	8309.0	8183.6	8183.6
52.5°	9495.3	9505.7	9552.8	9725.2	9902.9	10054.4	9599.8	9108.6	8732.3	8570.3	8549.4
55°	10002.2	10106.7	10294.8	10618.8	11131.0	11340.0	10556.1	9678.2	9218.3	8967.5	8915.2
56°	10279.2	10179.9	10503.9	10948.1	11617.0	11888.7	10712.9	9793.2	9286.3	9004.1	8998.8
57.5°	10012.6	10122.4	10347.1	11047.4	11867.8	12223.2	10770.4	9740.9	9014.5	8727.1	8753.2
60°	7906.6	8011.2	8314.3	9098.1	10383.7	10660.6	9113.8	8032.1	7384.1	6971.2	6976.5
62.5°	4473.3	4551.7	4786.8	5513.2	6312.8	6579.3	5680.5	4959.3	4509.9	4279.9	4206.8
65°	1646.1	1614.8	1651.4	2022.4	2513.6	2738.3	2362.1	1996.3	1761.1	1677.5	1646.1
67.5°	616.6	569.6	533.0	569.6	715.9	757.7	695.0	580.1	543.5	559.2	569.6
70°	381.5	360.6	287.4	271.7	266.5	261.3	277.0	292.6	334.5	391.9	402.4
72.5°	266.5	250.8	203.8	193.4	182.9	177.7	203.8	224.7	261.3	303.1	308.3
75°	104.5	109.7	104.5	115.0	120.2	125.4	146.3	162.0	177.7	177.7	172.5
77.5°	20.9	20.9	31.4	41.8	52.3	67.9	99.3	115.0	120.2	115.0	99.3
80°	0.0	0.0	10.5	20.9	41.8	57.5	88.8	99.3	109.7	99.3	78.4
82.5°	0.0	0.0	10.5	26.1	41.8	52.3	83.6	104.5	120.2	109.7	83.6
85°	0.0	0.0	10.5	20.9	31.4	36.6	36.6	26.1	26.1	15.7	10.5
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)