

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: P532277

Luminaire Tested: **GALN-SA7C-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532277
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-SA7C-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 21604 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

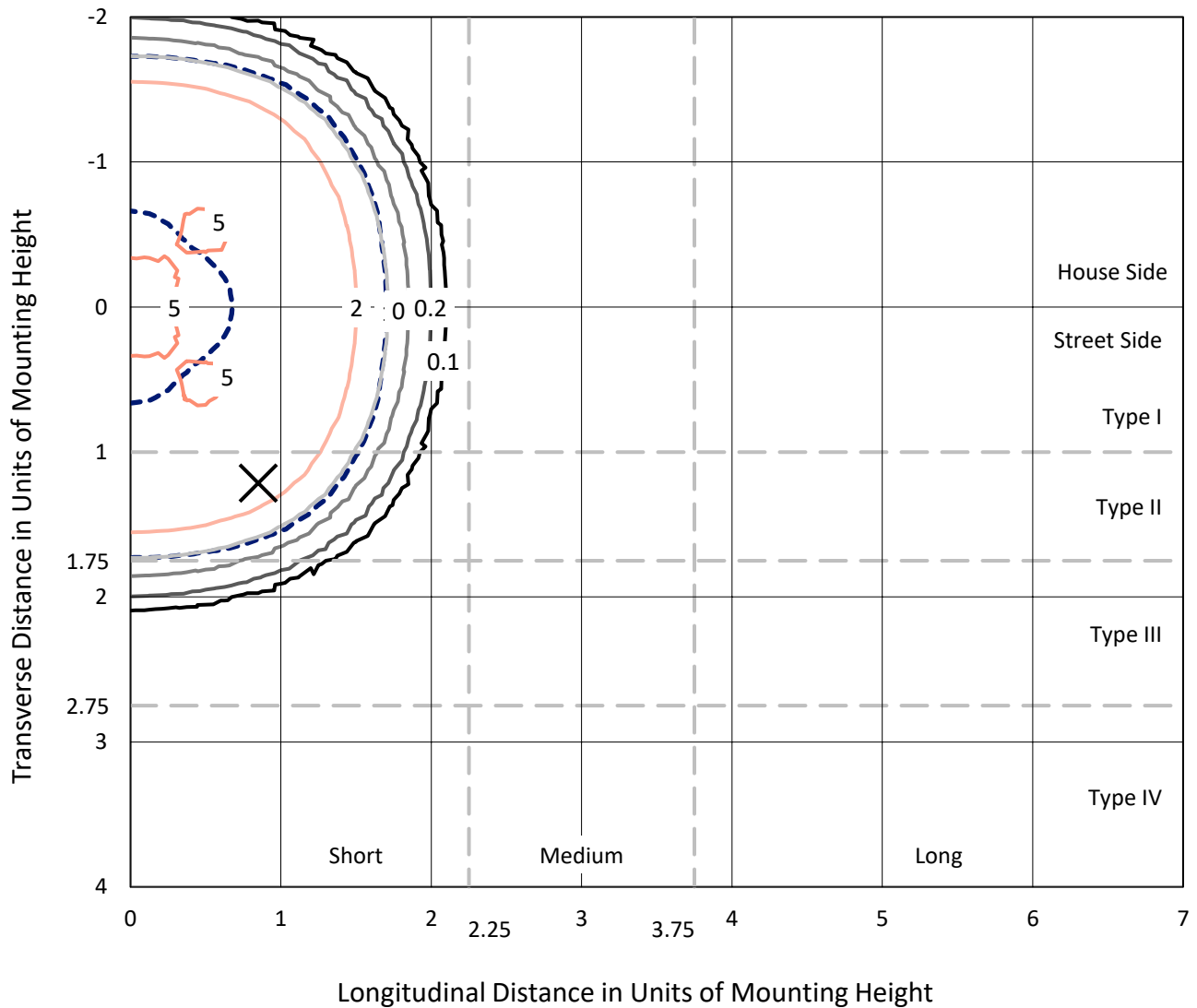
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

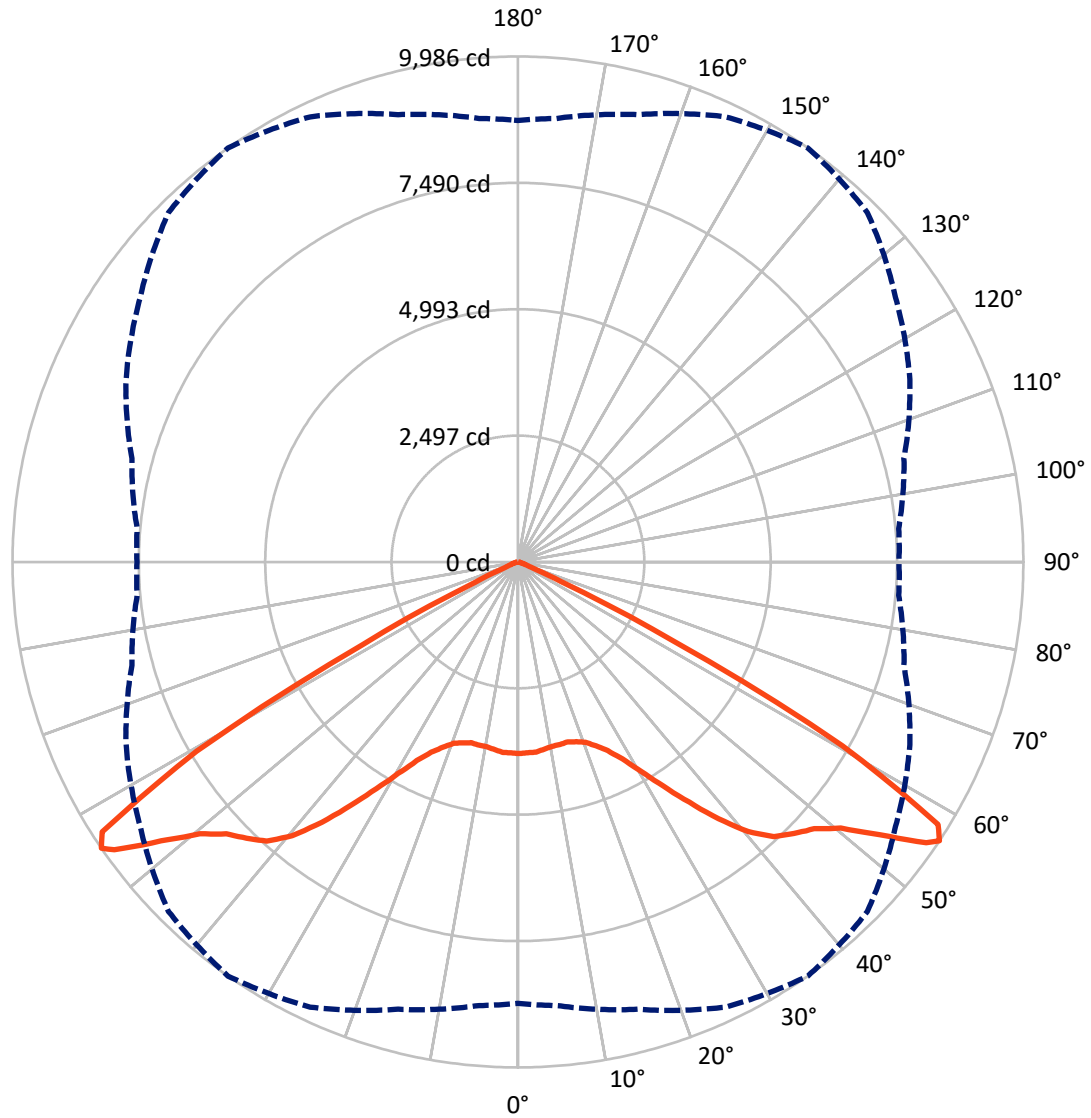
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	10802.0	0.0	10802.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10802.0	0.0	10802.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21604.0	0.0	21604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.8	1.6
10°-20°	1038.7	4.8
20°-30°	1880.9	8.7
30°-40°	3487.9	16.1
40°-50°	5725.2	26.5
50°-60°	7375.8	34.1
60°-70°	1625.5	7.5
70°-80°	94.3	0.4
80°-90°	19.8	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°	21604.0	100.0
0°-180°	21604.0	100.0

Coefficient of Utilization



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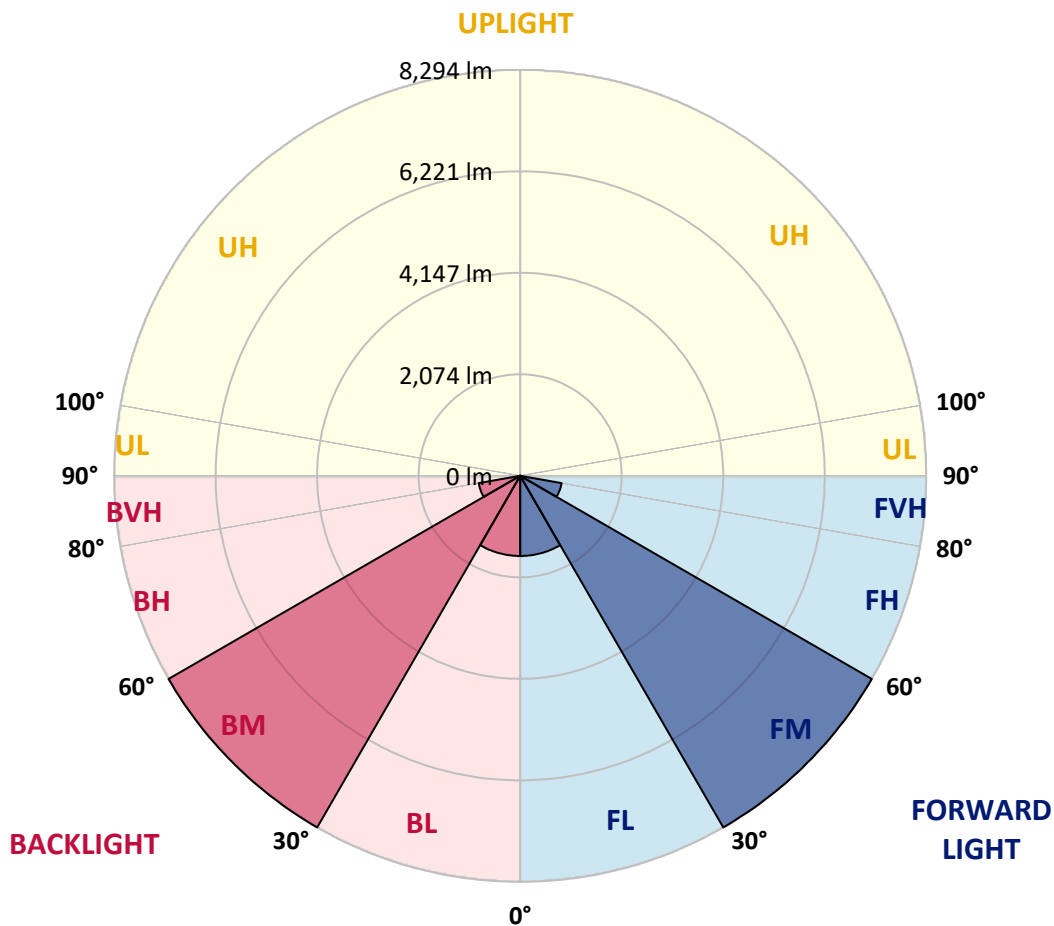
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1637.7	7.6			
FM (30°-60°)	8294.4	38.4			
FH (60°-80°)	859.9	4.0			G1/1800
FVH (80°-90°)	9.9	0.0			G0/10
BL (0°-30°)	1637.7	7.6	B3/2500		
BM (30°-60°)	8294.4	38.4	B4/8500		
BH (60°-80°)	859.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.9	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°	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5
2.5°	3793.3	3793.3	3797.2	3801.1	3773.7	3762.0	3765.9	3758.1	3754.2	3765.9	3765.9
5°	3781.6	3781.6	3769.8	3773.7	3773.7	3738.5	3738.5	3746.3	3746.3	3722.9	3715.0
7.5°	3750.3	3742.4	3726.8	3746.3	3734.6	3734.6	3707.2	3687.6	3679.8	3695.4	3679.8
10°	3683.7	3687.6	3703.3	3711.1	3703.3	3726.8	3679.8	3652.4	3625.0	3613.2	3613.2
12.5°	3652.4	3675.9	3652.4	3672.0	3699.4	3679.8	3652.4	3632.8	3593.7	3578.0	3578.0
15°	3648.5	3664.1	3672.0	3699.4	3687.6	3695.4	3640.6	3617.2	3558.4	3531.0	3519.3
17.5°	3644.6	3664.1	3675.9	3726.8	3734.6	3738.5	3695.4	3625.0	3574.1	3546.7	3519.3
20°	3687.6	3695.4	3718.9	3769.8	3801.1	3855.9	3777.7	3703.3	3593.7	3562.3	3550.6
22.5°	3742.4	3781.6	3805.1	3859.9	3942.1	3989.0	3887.3	3793.3	3679.8	3640.6	3593.7
25°	3918.6	3910.8	3949.9	4063.4	4130.0	4165.2	4083.0	3946.0	3797.2	3750.3	3758.1
27.5°	4137.8	4145.6	4180.9	4306.1	4404.0	4458.8	4360.9	4180.9	4036.0	3957.7	3949.9
30°	4423.6	4415.7	4454.9	4623.2	4799.4	4881.6	4709.3	4498.0	4357.0	4255.2	4278.7
32.5°	4725.0	4728.9	4838.5	4991.2	5277.0	5437.5	5159.5	4901.2	4689.8	4619.3	4584.1
35°	5171.3	5190.9	5277.0	5511.9	5828.9	6036.4	5731.1	5421.8	5179.1	5049.9	5065.6
37.5°	5723.2	5703.7	5848.5	6103.0	6435.7	6588.4	6330.0	5977.7	5731.1	5645.0	5699.8
40°	6310.4	6330.0	6404.4	6635.4	7007.3	7109.0	6725.4	6533.6	6318.3	6275.2	6341.8
42.5°	6897.6	6885.9	6940.7	7148.2	7418.3	7347.8	7120.8	7007.3	6854.6	6768.5	6858.5
45°	7328.3	7308.7	7410.5	7551.4	7649.3	7516.2	7414.4	7375.2	7296.9	7203.0	7285.2
47.5°	7747.1	7731.5	7829.3	7868.5	7876.3	7700.2	7719.7	7790.2	7594.5	7398.7	7492.7
50°	8103.4	8076.0	8197.3	8283.4	8263.9	7982.0	8052.5	7982.0	7676.7	7445.7	7410.5
52.5°	8698.4	8710.1	8839.3	8995.9	8948.9	8714.1	8612.3	8291.3	7899.8	7692.3	7571.0
55°	9074.2	9015.5	9238.6	9735.8	9790.6	9547.9	9097.7	8624.0	8036.8	7782.4	7751.0
56°	8721.9	8796.3	9148.6	9704.5	9986.3	9763.2	9109.4	8541.8	7895.9	7551.4	7527.9
57.5°	7825.4	7786.3	8263.9	9023.3	9790.6	9696.6	8788.4	7954.6	7203.0	6815.4	6768.5
60°	4869.8	4983.4	5402.2	6341.8	7367.4	7414.4	6514.0	5797.6	4920.7	4576.2	4658.5
62.5°	1906.4	1808.6	2070.9	2771.6	3476.2	3632.8	3292.2	2736.4	2247.0	1906.4	1883.0
65°	442.4	430.6	485.4	669.4	935.6	1084.4	1029.6	739.9	544.1	516.7	477.6
67.5°	250.5	250.5	238.8	238.8	262.3	277.9	266.2	262.3	274.0	285.8	281.9
70°	176.2	172.2	164.4	168.3	160.5	160.5	172.2	191.8	207.5	207.5	211.4
72.5°	105.7	105.7	105.7	117.4	117.4	117.4	129.2	144.8	148.8	144.8	140.9
75°	47.0	47.0	54.8	66.5	74.4	78.3	90.0	97.9	105.7	97.9	90.0
77.5°	11.7	11.7	19.6	27.4	35.2	43.1	58.7	70.5	74.4	70.5	58.7
80°	3.9	3.9	7.8	19.6	35.2	43.1	58.7	62.6	66.5	58.7	47.0
82.5°	3.9	3.9	7.8	19.6	27.4	35.2	47.0	54.8	58.7	50.9	47.0
85°	0.0	3.9	7.8	15.7	23.5	31.3	31.3	23.5	19.6	11.7	15.7
87.5°	0.0	0.0	3.9	3.9	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)