

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: P531887

Luminaire Tested: **GALN-SA7B-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531887
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-SA7B-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 19892 lumens
Efficiency: N/A
Efficacy: 69.6 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

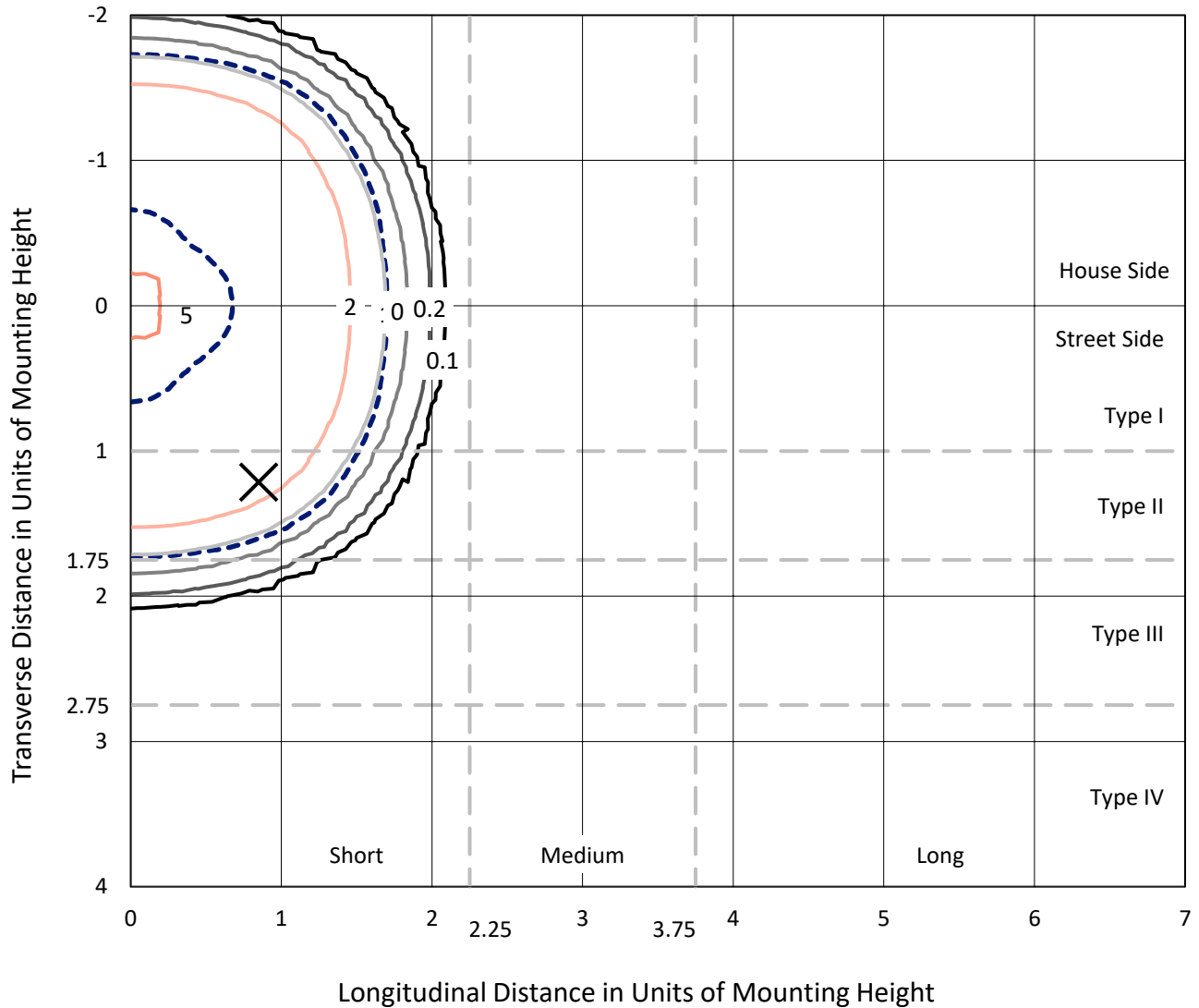
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

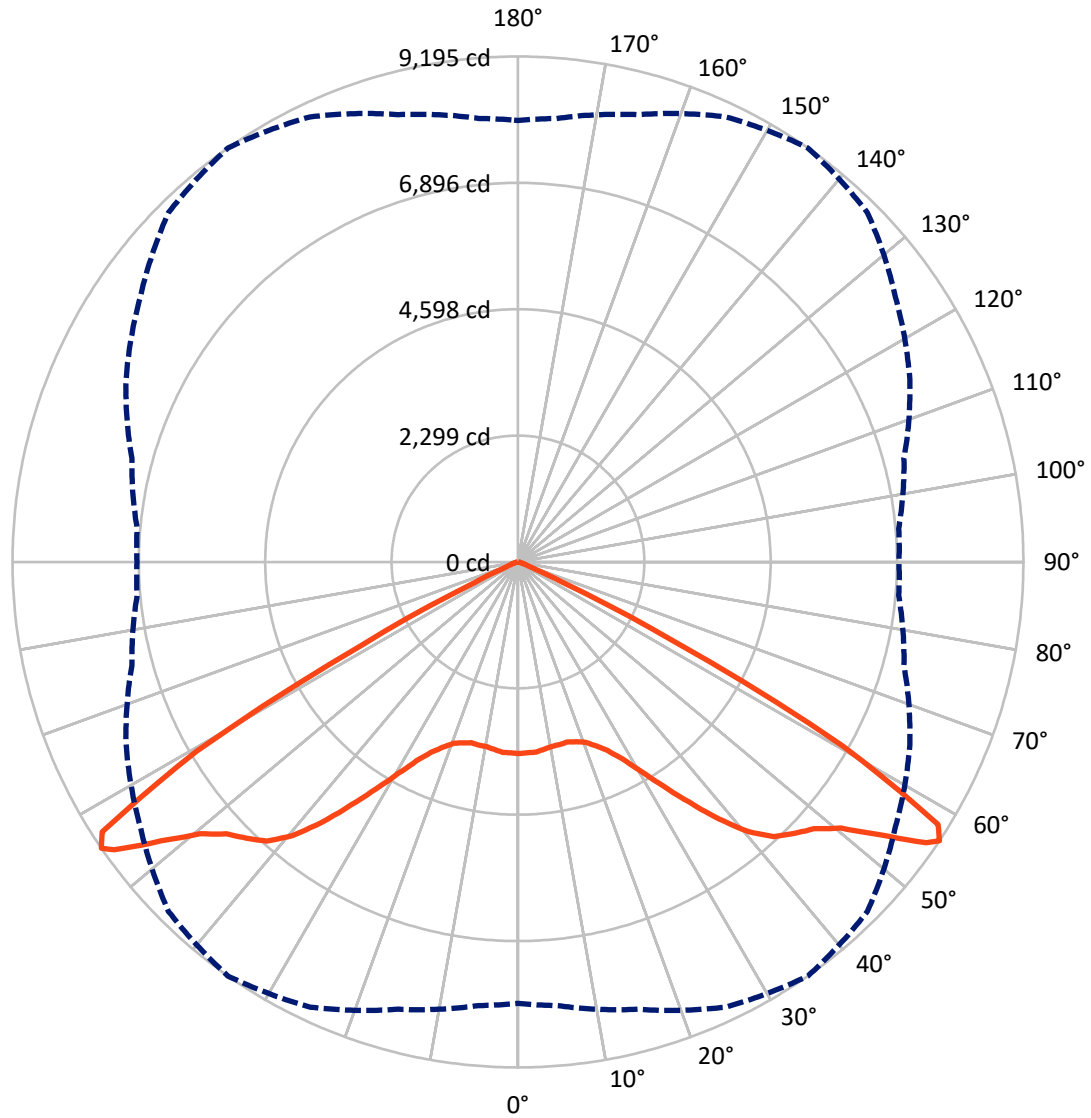
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	9946.0	0.0	9946.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9946.0	0.0	9946.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19892.0	0.0	19892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	1.6
10°-20°	956.4	4.8
20°-30°	1731.9	8.7
30°-40°	3211.5	16.1
40°-50°	5271.5	26.5
50°-60°	6791.3	34.1
60°-70°	1496.7	7.5
70°-80°	86.8	0.4
80°-90°	18.3	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°	19892.0	100.0
0°-180°	19892.0	100.0

Coefficient of Utilization

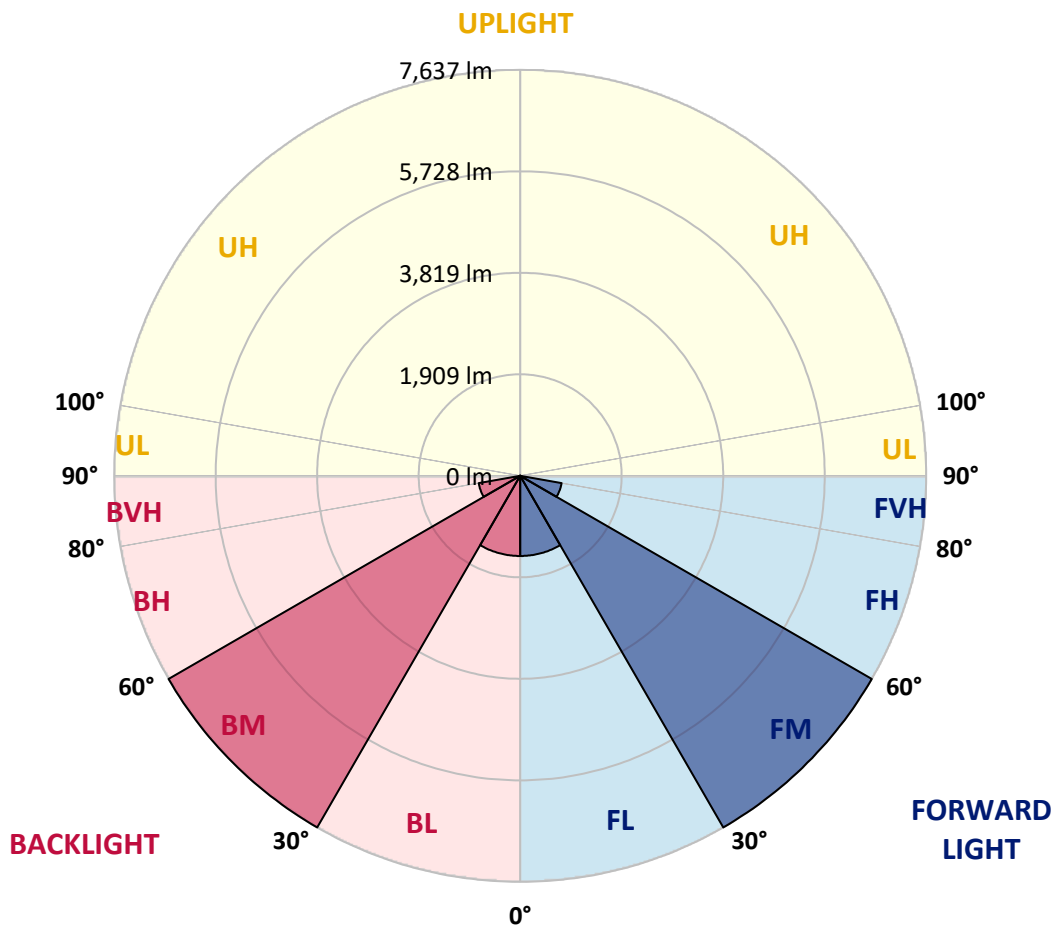


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.9	7.6			
FM (30°-60°)	7637.2	38.4			
FH (60°-80°)	791.8	4.0			G1/1800
FVH (80°-90°)	9.1	0.0			G0/10
BL (0°-30°)	1507.9	7.6	B3/2500		
BM (30°-60°)	7637.2	38.4	B4/8500		
BH (60°-80°)	791.8	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.1	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°	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5
2.5°	3492.7	3492.7	3496.3	3499.9	3474.7	3463.9	3467.5	3460.3	3456.7	3467.5	3467.5
5°	3481.9	3481.9	3471.1	3474.7	3474.7	3442.3	3442.3	3449.5	3449.5	3427.8	3420.6
7.5°	3453.1	3445.9	3431.4	3449.5	3438.6	3438.6	3413.4	3395.4	3388.2	3402.6	3388.2
10°	3391.8	3395.4	3409.8	3417.0	3409.8	3431.4	3388.2	3363.0	3337.7	3326.9	3326.9
12.5°	3363.0	3384.6	3363.0	3381.0	3406.2	3388.2	3363.0	3344.9	3308.9	3294.5	3294.5
15°	3359.4	3373.8	3381.0	3406.2	3395.4	3402.6	3352.1	3330.5	3276.4	3251.2	3240.4
17.5°	3355.7	3373.8	3384.6	3431.4	3438.6	3442.3	3402.6	3337.7	3290.9	3265.6	3240.4
20°	3395.4	3402.6	3424.2	3471.1	3499.9	3550.4	3478.3	3409.8	3308.9	3280.1	3269.2
22.5°	3445.9	3481.9	3503.5	3554.0	3629.7	3672.9	3579.2	3492.7	3388.2	3352.1	3308.9
25°	3608.1	3600.8	3636.9	3741.4	3802.7	3835.1	3759.4	3633.3	3496.3	3453.1	3460.3
27.5°	3809.9	3817.1	3849.6	3964.9	4055.0	4105.5	4015.4	3849.6	3716.2	3644.1	3636.9
30°	4073.0	4065.8	4101.9	4256.9	4419.1	4494.8	4336.2	4141.5	4011.8	3918.0	3939.7
32.5°	4350.6	4354.2	4455.1	4595.7	4858.8	5006.6	4750.7	4512.8	4318.1	4253.3	4220.8
35°	4761.5	4779.5	4858.8	5075.1	5367.0	5558.1	5276.9	4992.2	4768.7	4649.7	4664.2
37.5°	5269.7	5251.7	5385.1	5619.3	5925.7	6066.3	5828.4	5504.0	5276.9	5197.6	5248.1
40°	5810.4	5828.4	5896.9	6109.5	6452.0	6545.7	6192.5	6015.8	5817.6	5777.9	5839.2
42.5°	6351.0	6340.2	6390.7	6581.7	6830.4	6765.6	6556.5	6452.0	6311.4	6232.1	6315.0
45°	6747.5	6729.5	6823.2	6953.0	7043.1	6920.6	6826.8	6790.8	6718.7	6632.2	6707.9
47.5°	7133.2	7118.8	7208.9	7245.0	7252.2	7090.0	7108.0	7172.9	6992.6	6812.4	6898.9
50°	7461.2	7436.0	7547.7	7627.0	7609.0	7349.5	7414.4	7349.5	7068.3	6855.7	6823.2
52.5°	8009.1	8019.9	8138.9	8283.0	8239.8	8023.5	7929.8	7634.2	7273.8	7082.8	6971.0
55°	8355.1	8301.1	8506.5	8964.3	9014.7	8791.3	8376.7	7940.6	7399.9	7165.7	7136.8
56°	8030.7	8099.2	8423.6	8935.4	9195.0	8989.5	8387.6	7864.9	7270.2	6953.0	6931.4
57.5°	7205.3	7169.3	7609.0	8308.3	9014.7	8928.2	8092.0	7324.2	6632.2	6275.4	6232.1
60°	4483.9	4588.5	4974.1	5839.2	6783.6	6826.8	5997.8	5338.2	4530.8	4213.6	4289.3
62.5°	1755.4	1665.3	1906.8	2552.0	3200.8	3344.9	3031.3	2519.5	2069.0	1755.4	1733.7
65°	407.3	396.5	447.0	616.4	861.5	998.4	948.0	681.2	501.0	475.8	439.7
67.5°	230.7	230.7	219.9	219.9	241.5	255.9	245.1	241.5	252.3	263.1	259.5
70°	162.2	158.6	151.4	155.0	147.8	147.8	158.6	176.6	191.0	191.0	194.6
72.5°	97.3	97.3	97.3	108.1	108.1	108.1	118.9	133.4	137.0	133.4	129.8
75°	43.3	43.3	50.5	61.3	68.5	72.1	82.9	90.1	97.3	90.1	82.9
77.5°	10.8	10.8	18.0	25.2	32.4	39.6	54.1	64.9	68.5	64.9	54.1
80°	3.6	3.6	7.2	18.0	32.4	39.6	54.1	57.7	61.3	54.1	43.3
82.5°	3.6	3.6	7.2	18.0	25.2	32.4	43.3	50.5	54.1	46.9	43.3
85°	0.0	3.6	7.2	14.4	21.6	28.8	28.8	21.6	18.0	10.8	14.4
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)