

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: P533058

Luminaire Tested: **GALN-SA8C-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41907 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

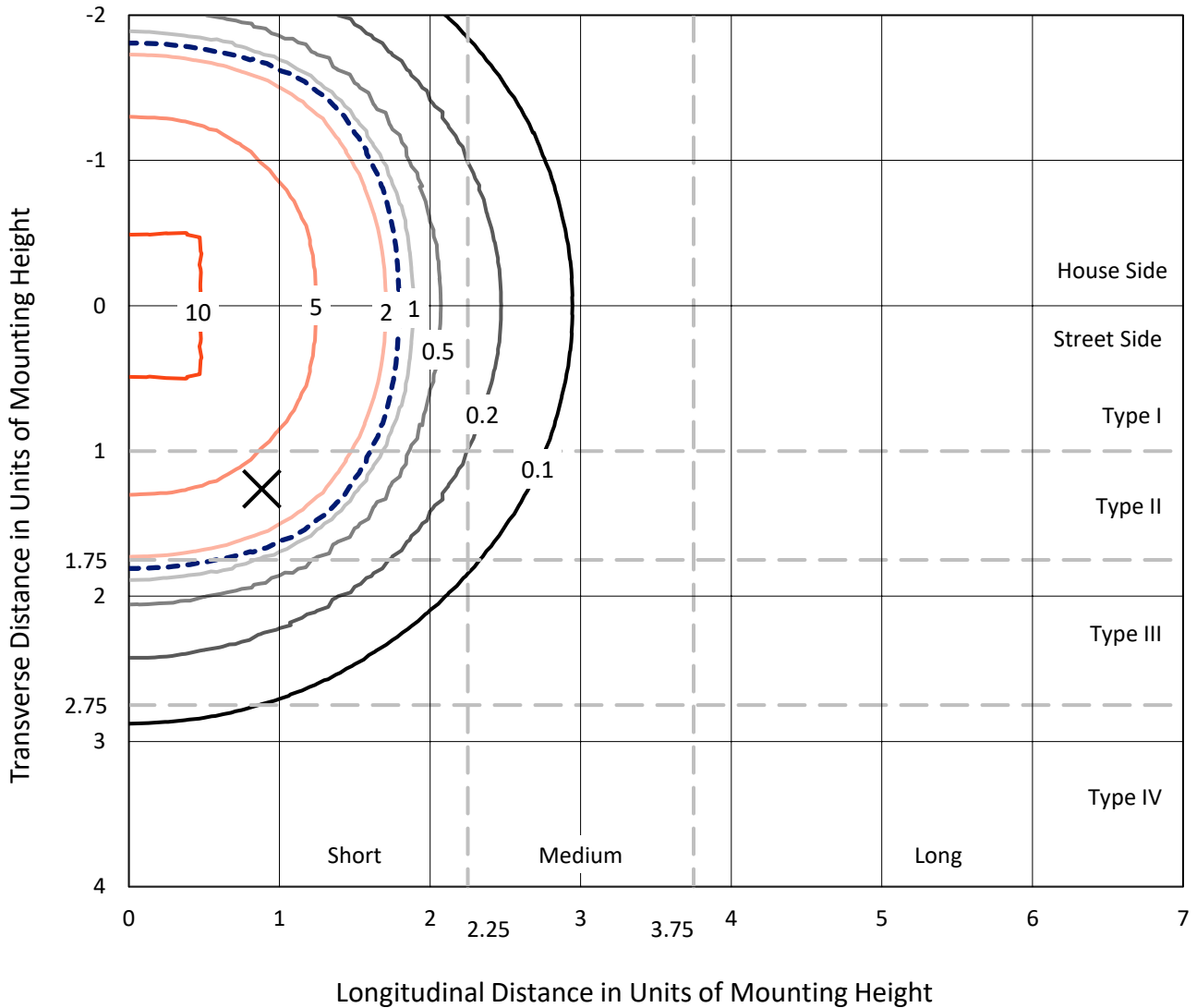
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

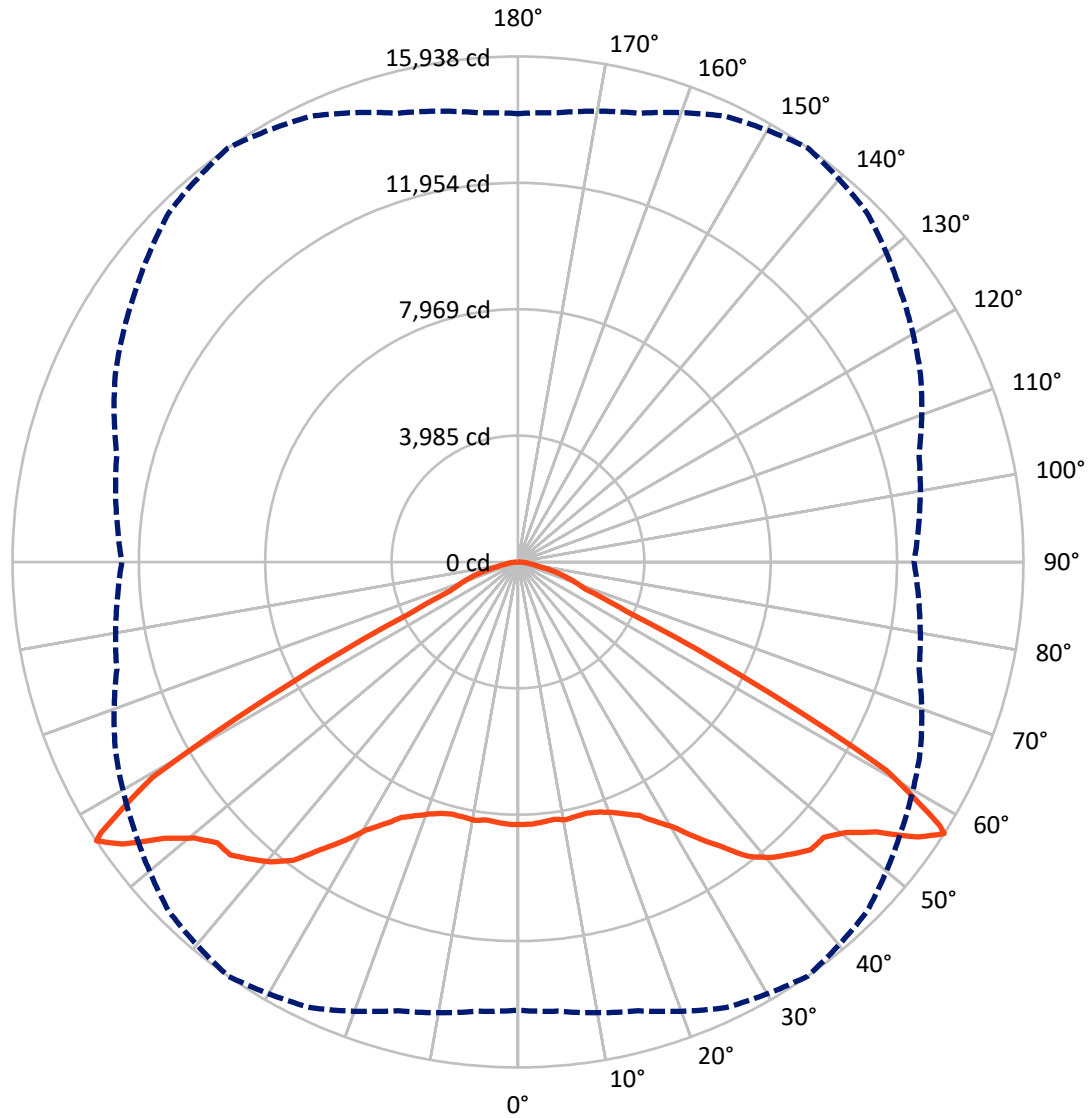
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20953.5	0.0	20953.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20953.5	0.0	20953.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41907.0	0.0	41907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.6	1.9
10°-20°	2323.8	5.5
20°-30°	4058.5	9.7
30°-40°	6650.0	15.9
40°-50°	9750.6	23.3
50°-60°	12281.6	29.3
60°-70°	4619.0	11.0
70°-80°	1228.2	2.9
80°-90°	210.6	0.5
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°	41907.0	100.0
0°-180°	41907.0	100.0

Coefficient of Utilization



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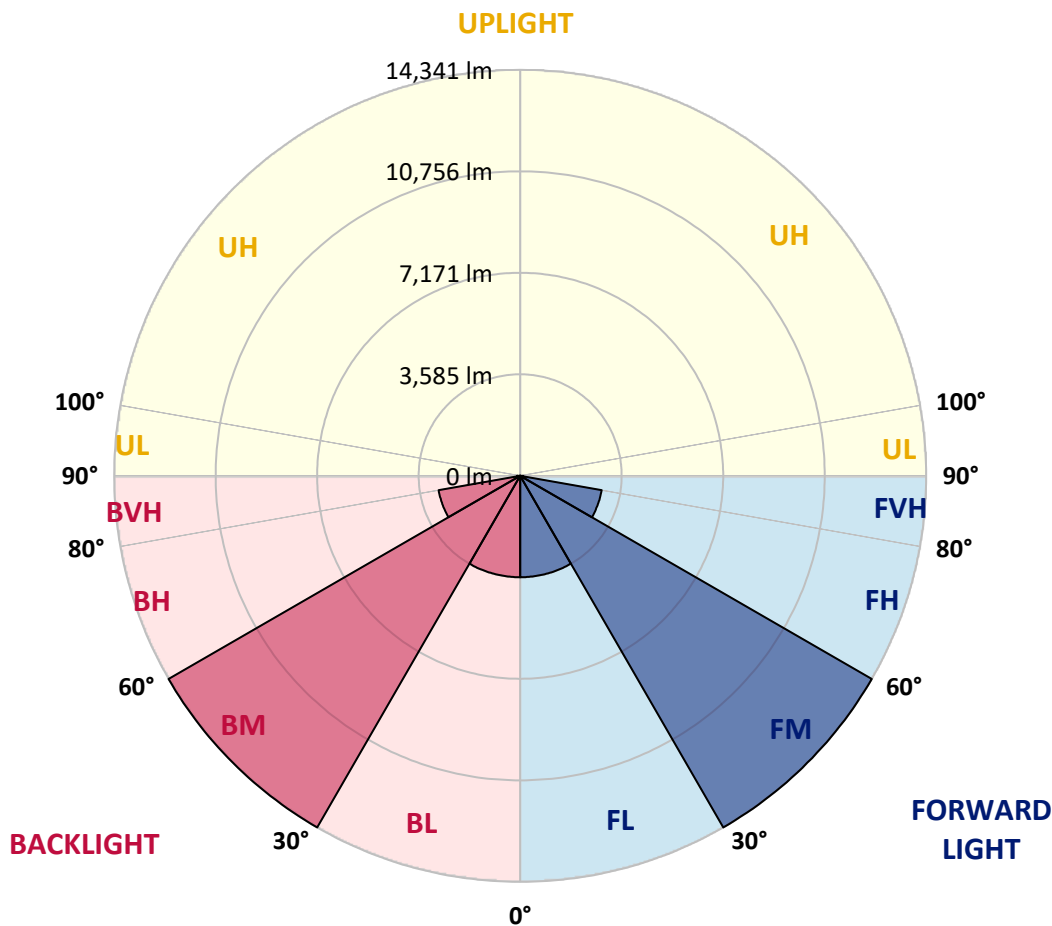
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3583.5	8.6			
FM (30°-60°)	14341.1	34.2			
FH (60°-80°)	2923.6	7.0			G2/5000
FVH (80°-90°)	105.3	0.3			G2/225
BL (0°-30°)	3583.5	8.6	B4/5000		
BM (30°-60°)	14341.1	34.2	B5		
BH (60°-80°)	2923.6	7.0	B4/5000		G2/5000
BVH (80°-90°)	105.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8276.3	8276.3	8276.3	8276.3	8276.3	8276.3	8276.3	8276.3	8276.3	8276.3	8276.3
2.5°	8235.0	8317.6	8281.5	8260.8	8276.3	8250.5	8209.2	8255.7	8245.3	8204.0	8188.6
5°	8214.4	8276.3	8235.0	8276.3	8235.0	8307.3	8286.6	8209.2	8302.1	8214.4	8245.3
7.5°	8198.9	8219.5	8229.9	8209.2	8193.7	8281.5	8235.0	8198.9	8147.2	8131.8	8157.6
10°	8162.7	8214.4	8136.9	8240.2	8260.8	8198.9	8198.9	8131.8	8090.5	8064.6	8152.4
12.5°	8255.7	8167.9	8157.6	8209.2	8224.7	8250.5	8178.2	8142.1	8064.6	8075.0	8059.5
15°	8147.2	8183.4	8188.6	8198.9	8214.4	8276.3	8209.2	8131.8	8100.8	7992.4	8002.7
17.5°	8188.6	8152.4	8188.6	8307.3	8286.6	8333.1	8260.8	8142.1	8069.8	8007.8	8090.5
20°	8260.8	8245.3	8260.8	8405.4	8431.2	8472.5	8410.6	8302.1	8162.7	8090.5	8131.8
22.5°	8338.3	8328.0	8338.3	8477.7	8627.4	8679.0	8617.1	8364.1	8291.8	8157.6	8111.1
25°	8477.7	8488.0	8596.4	8751.3	8849.4	8947.5	8833.9	8653.2	8420.9	8338.3	8240.2
27.5°	8787.5	8813.3	8875.2	9102.4	9272.8	9360.6	9200.5	8952.7	8808.1	8637.7	8611.9
30°	9169.5	9169.5	9277.9	9474.1	9706.5	9840.7	9644.5	9350.2	9174.7	9081.8	9025.0
32.5°	9675.5	9618.7	9660.0	10005.9	10367.3	10480.9	10217.6	9856.2	9577.4	9453.5	9412.2
35°	10109.2	10145.3	10238.3	10610.0	11012.7	11276.0	10863.0	10393.2	10109.2	9995.6	9975.0
37.5°	10672.0	10733.9	10780.4	11291.5	11776.9	11874.9	11477.4	11100.5	10754.6	10661.6	10610.0
40°	11467.1	11425.8	11441.3	11818.2	12257.0	12319.0	11926.6	11658.1	11374.1	11317.3	11317.3
42.5°	12122.8	12076.3	12127.9	12267.3	12602.9	12556.5	12339.6	12143.4	12024.7	11962.7	12024.7
45°	12520.3	12510.0	12602.9	12706.2	12943.7	12788.8	12618.4	12649.4	12535.8	12432.6	12427.4
47.5°	12954.0	12886.9	13000.5	13155.4	12974.7	12902.4	12892.1	12959.2	12923.0	12742.3	12685.5
50°	13165.7	13139.9	13320.6	13501.3	13403.2	13238.0	13274.1	13382.6	12917.9	12675.2	12535.8
52.5°	13733.6	13738.8	14084.7	14182.8	14141.5	13898.9	13976.3	13682.0	13134.7	12794.0	12809.5
55°	14626.8	14590.7	14977.9	15267.1	15313.5	15003.7	14632.0	14219.0	13532.3	13186.4	13083.1
57°	14136.4	14219.0	14647.5	15504.6	15938.2	15571.7	14761.1	14007.3	13093.4	12675.2	12489.3
57.5°	13480.6	13614.9	14358.4	15220.6	15674.9	15644.0	14601.0	13614.9	12799.1	12148.6	12164.1
60°	9876.9	9902.7	10573.9	11942.1	13361.9	13392.9	12122.8	10816.5	9907.8	9200.5	9298.6
62.5°	5209.5	5328.2	5596.7	6696.4	7925.2	8224.7	7455.4	6784.2	5999.4	5462.5	5514.1
65°	2757.1	2741.6	2870.6	3180.4	3784.5	3939.4	3836.1	3304.3	3030.7	2942.9	2948.1
67.5°	2240.8	2266.6	2251.1	2266.6	2307.9	2375.0	2359.5	2380.2	2395.6	2421.5	2416.3
70°	1900.0	1900.0	1910.3	1915.5	1915.5	1946.5	1982.6	2049.7	2054.9	2080.7	2091.0
72.5°	1497.3	1487.0	1502.4	1538.6	1543.7	1569.6	1621.2	1662.5	1678.0	1678.0	1647.0
75°	1017.1	1027.4	1048.1	1079.1	1110.0	1156.5	1197.8	1223.6	1234.0	1218.5	1203.0
77.5°	573.1	583.4	598.9	645.4	681.5	722.8	769.3	795.1	820.9	826.1	795.1
80°	340.8	340.8	366.6	402.7	444.0	485.3	526.6	557.6	567.9	567.9	552.4
82.5°	206.5	211.7	232.3	268.5	304.6	330.4	366.6	392.4	413.0	407.9	397.6
85°	108.4	108.4	129.1	160.1	185.9	211.7	211.7	196.2	185.9	160.1	149.7
87.5°	36.1	31.0	41.3	41.3	36.1	41.3	41.3	46.5	46.5	46.5	46.5
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)