

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: P530249

Luminaire Tested: **GALN-SA5C-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530249
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-SA5C-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 17671 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

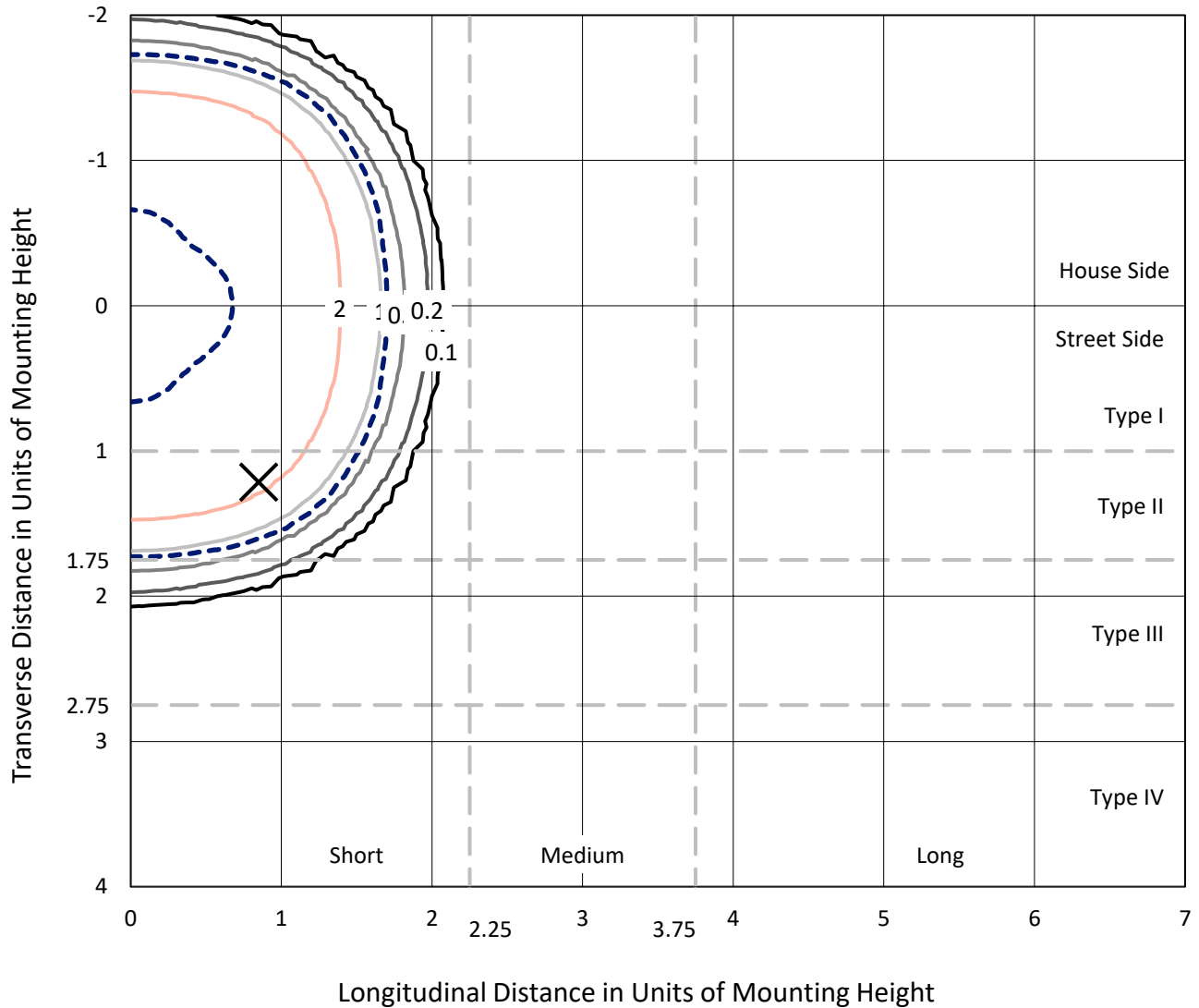
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

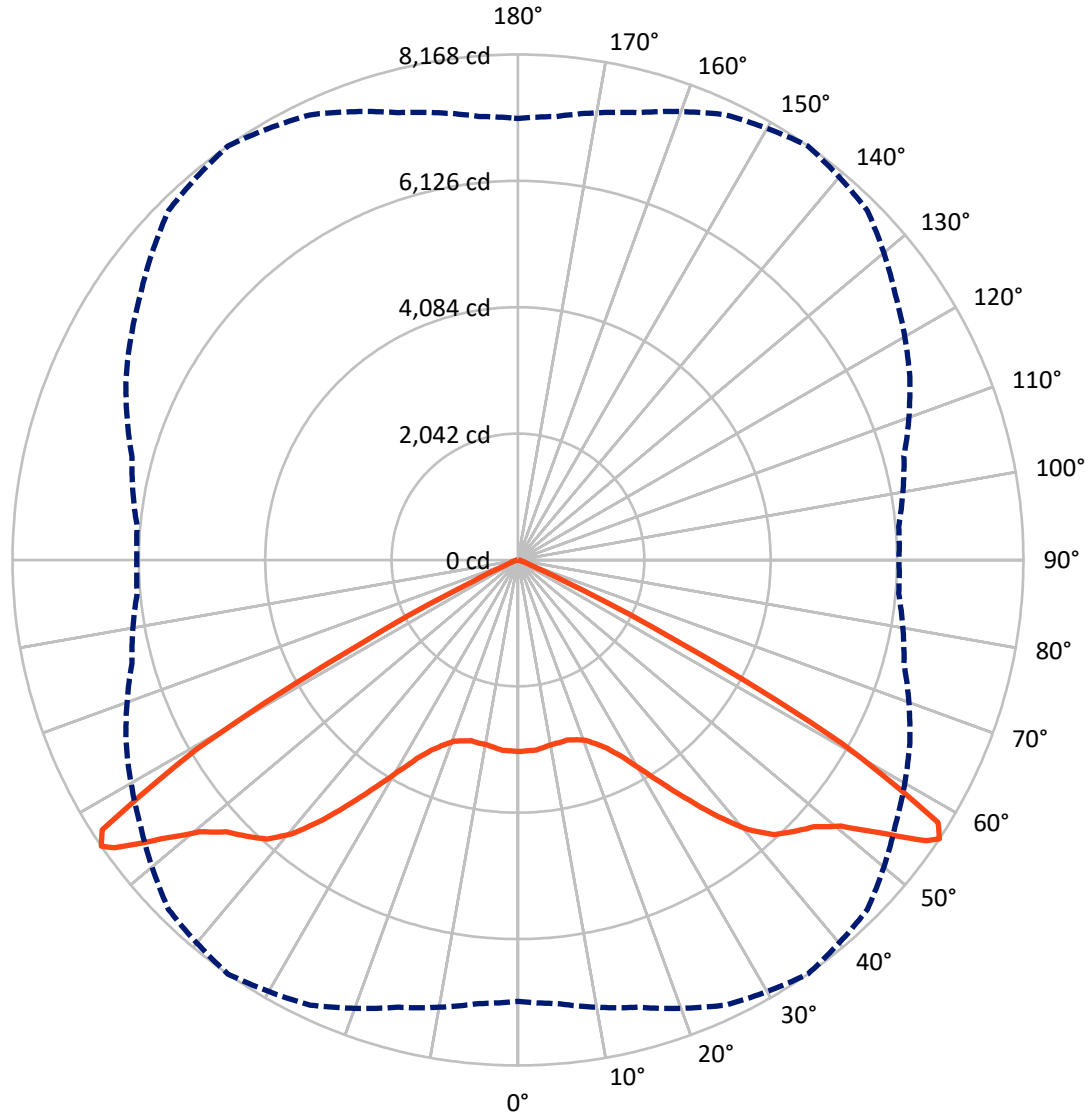
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	8835.5	0.0	8835.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8835.5	0.0	8835.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17671.0	0.0	17671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.0	1.6
10°-20°	849.6	4.8
20°-30°	1538.5	8.7
30°-40°	2853.0	16.1
40°-50°	4682.9	26.5
50°-60°	6033.0	34.1
60°-70°	1329.6	7.5
70°-80°	77.1	0.4
80°-90°	16.2	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°	17671.0	100.0
0°-180°	17671.0	100.0

Coefficient of Utilization

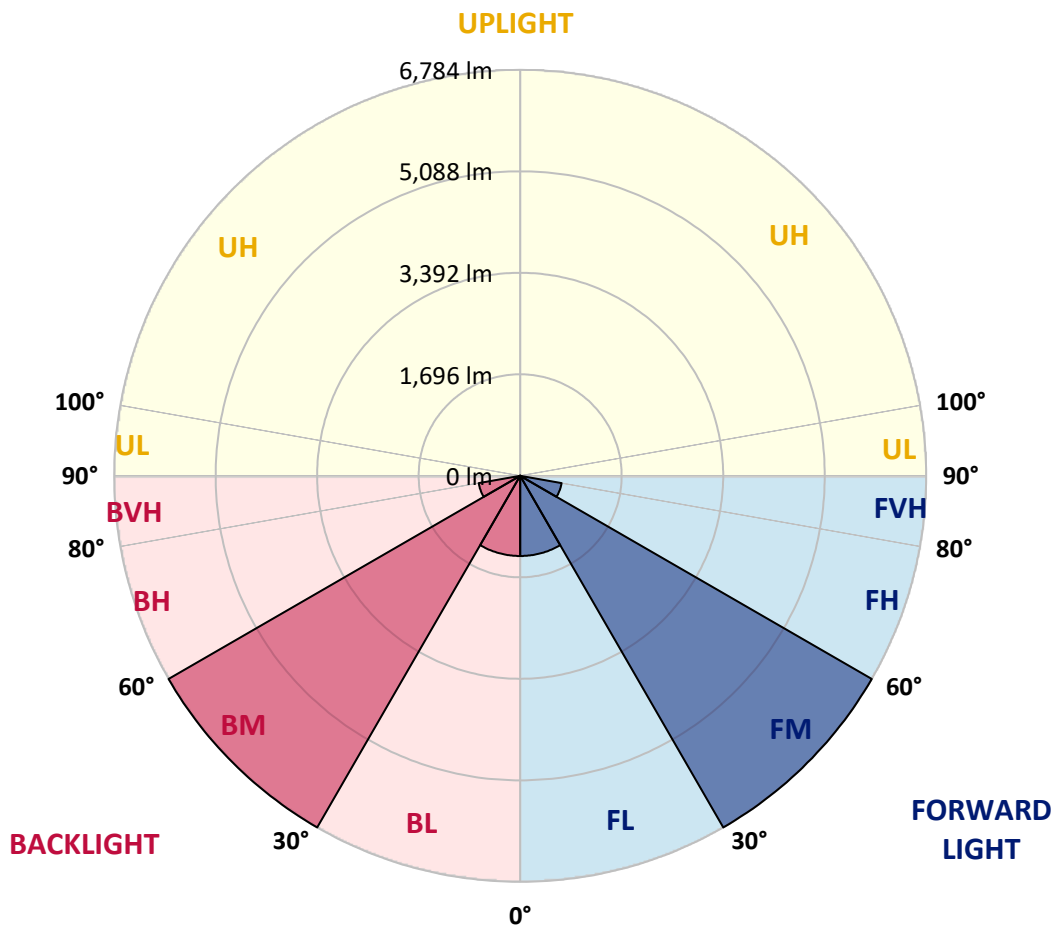


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1339.6	7.6			
FM (30°-60°)	6784.4	38.4			
FH (60°-80°)	703.4	4.0			G1/1800
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	1339.6	7.6	B3/2500		
BM (30°-60°)	6784.4	38.4	B4/8500		
BH (60°-80°)	703.4	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.1	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°	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3
2.5°	3102.7	3102.7	3105.9	3109.1	3086.7	3077.1	3080.3	3073.9	3070.7	3080.3	3080.3
5°	3093.1	3093.1	3083.5	3086.7	3086.7	3057.9	3057.9	3064.3	3064.3	3045.1	3038.7
7.5°	3067.5	3061.1	3048.3	3064.3	3054.7	3054.7	3032.3	3016.3	3009.9	3022.7	3009.9
10°	3013.1	3016.3	3029.1	3035.5	3029.1	3048.3	3009.9	2987.5	2965.1	2955.5	2955.5
12.5°	2987.5	3006.7	2987.5	3003.5	3025.9	3009.9	2987.5	2971.5	2939.4	2926.6	2926.6
15°	2984.3	2997.1	3003.5	3025.9	3016.3	3022.7	2977.9	2958.7	2910.6	2888.2	2878.6
17.5°	2981.1	2997.1	3006.7	3048.3	3054.7	3057.9	3022.7	2965.1	2923.4	2901.0	2878.6
20°	3016.3	3022.7	3041.9	3083.5	3109.1	3154.0	3089.9	3029.1	2939.4	2913.8	2904.2
22.5°	3061.1	3093.1	3112.3	3157.2	3224.4	3262.8	3179.6	3102.7	3009.9	2977.9	2939.4
25°	3205.2	3198.8	3230.8	3323.7	3378.1	3406.9	3339.7	3227.6	3105.9	3067.5	3073.9
27.5°	3384.5	3390.9	3419.7	3522.2	3602.3	3647.1	3567.0	3419.7	3301.3	3237.2	3230.8
30°	3618.3	3611.9	3643.9	3781.6	3925.7	3992.9	3852.0	3679.1	3563.8	3480.6	3499.8
32.5°	3864.8	3868.0	3957.7	4082.6	4316.3	4447.6	4220.2	4008.9	3836.0	3778.4	3749.5
35°	4229.8	4245.9	4316.3	4508.4	4767.8	4937.5	4687.7	4434.8	4236.3	4130.6	4143.4
37.5°	4681.3	4665.3	4783.8	4991.9	5264.1	5389.0	5177.6	4889.5	4687.7	4617.3	4662.1
40°	5161.6	5177.6	5238.5	5427.4	5731.6	5814.8	5501.0	5344.1	5168.0	5132.8	5187.2
42.5°	5641.9	5632.3	5677.2	5846.9	6067.8	6010.2	5824.4	5731.6	5606.7	5536.3	5609.9
45°	5994.2	5978.1	6061.4	6176.7	6256.7	6147.9	6064.6	6032.6	5968.5	5891.7	5958.9
47.5°	6336.8	6324.0	6404.0	6436.0	6442.4	6298.3	6314.4	6372.0	6211.9	6051.8	6128.6
50°	6628.2	6605.7	6705.0	6775.4	6759.4	6528.9	6586.5	6528.9	6279.1	6090.2	6061.4
52.5°	7114.9	7124.5	7230.1	7358.2	7319.8	7127.7	7044.4	6781.8	6461.6	6291.9	6192.7
55°	7422.2	7374.2	7556.7	7963.4	8008.2	7809.7	7441.5	7054.0	6573.7	6365.6	6340.0
56°	7134.1	7194.9	7483.1	7937.8	8168.3	7985.8	7451.1	6986.8	6458.4	6176.7	6157.5
57.5°	6400.8	6368.8	6759.4	7380.6	8008.2	7931.4	7188.5	6506.5	5891.7	5574.7	5536.3
60°	3983.3	4076.2	4418.8	5187.2	6026.2	6064.6	5328.1	4742.2	4024.9	3743.1	3810.4
62.5°	1559.4	1479.3	1693.9	2267.0	2843.4	2971.5	2692.9	2238.2	1838.0	1559.4	1540.2
65°	361.8	352.2	397.0	547.5	765.3	887.0	842.1	605.2	445.1	422.7	390.6
67.5°	204.9	204.9	195.3	195.3	214.5	227.3	217.7	214.5	224.1	233.7	230.5
70°	144.1	140.9	134.5	137.7	131.3	131.3	140.9	156.9	169.7	169.7	172.9
72.5°	86.5	86.5	86.5	96.1	96.1	96.1	105.7	118.5	121.7	118.5	115.3
75°	38.4	38.4	44.8	54.4	60.8	64.0	73.6	80.1	86.5	80.1	73.6
77.5°	9.6	9.6	16.0	22.4	28.8	35.2	48.0	57.6	60.8	57.6	48.0
80°	3.2	3.2	6.4	16.0	28.8	35.2	48.0	51.2	54.4	48.0	38.4
82.5°	3.2	3.2	6.4	16.0	22.4	28.8	38.4	44.8	48.0	41.6	38.4
85°	0.0	3.2	6.4	12.8	19.2	25.6	25.6	19.2	16.0	9.6	12.8
87.5°	0.0	0.0	3.2	3.2	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)