

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: P531341

Luminaire Tested: **GALN-SA6C-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531341
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-SA6C-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 18393 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

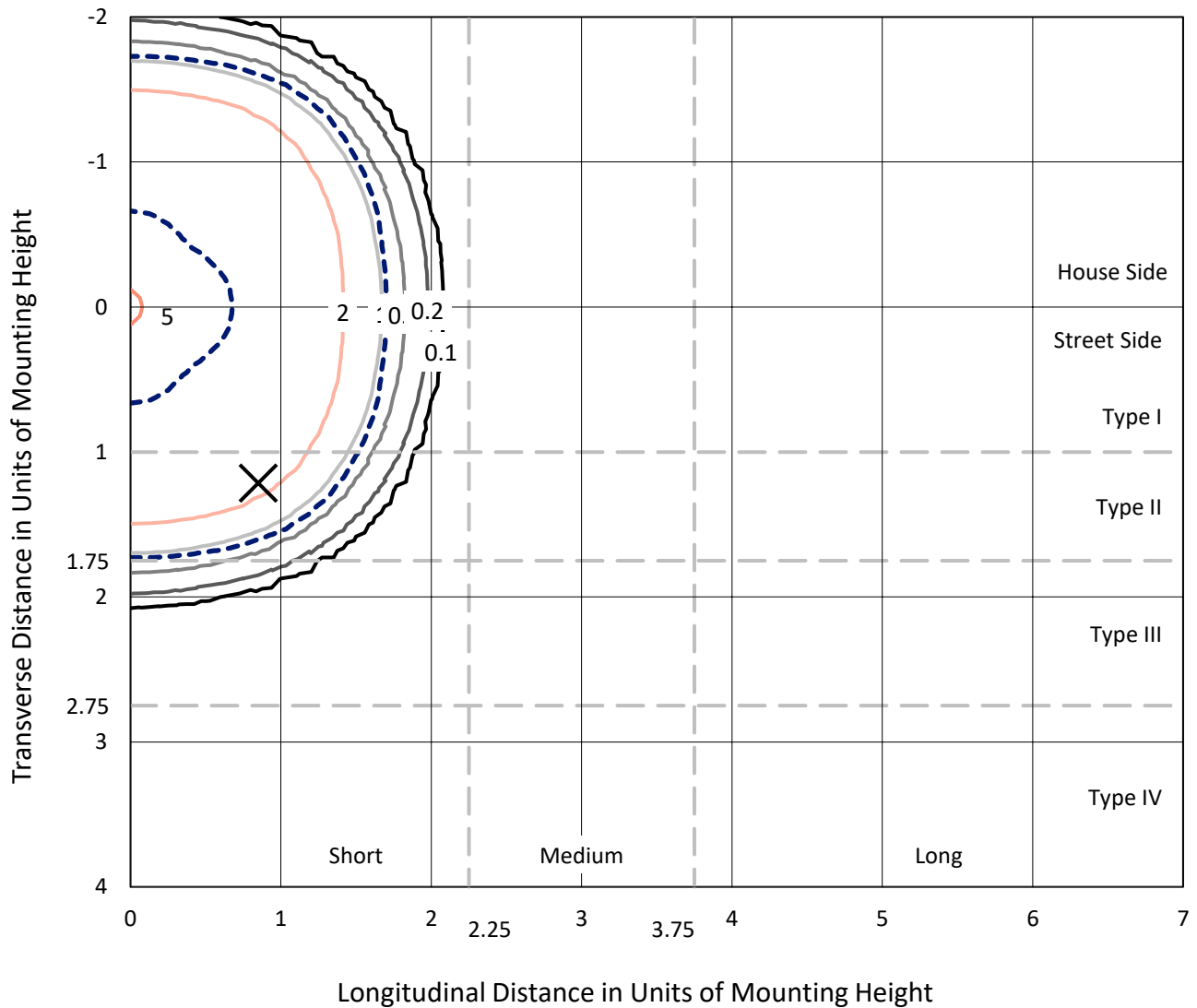
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

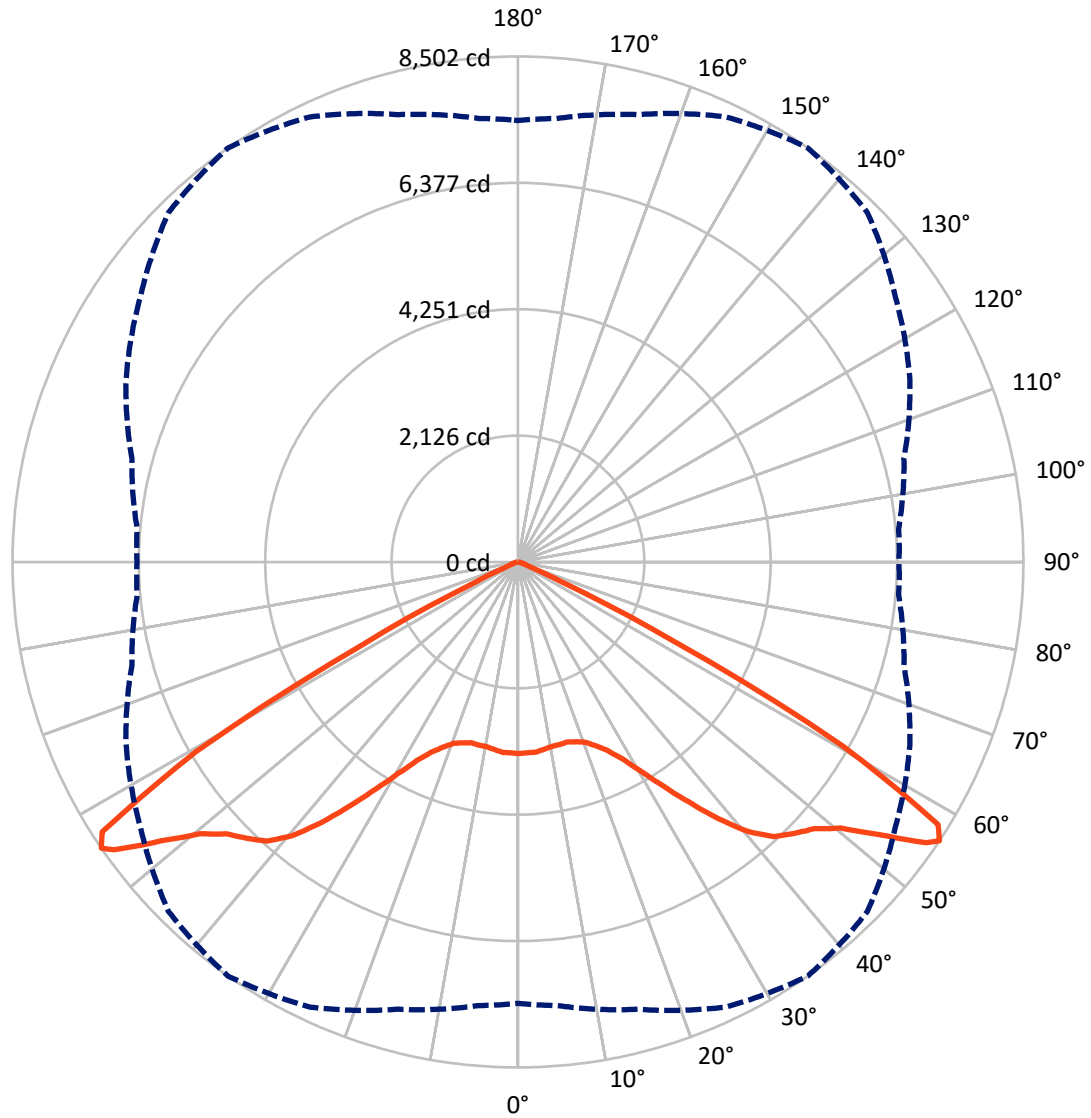
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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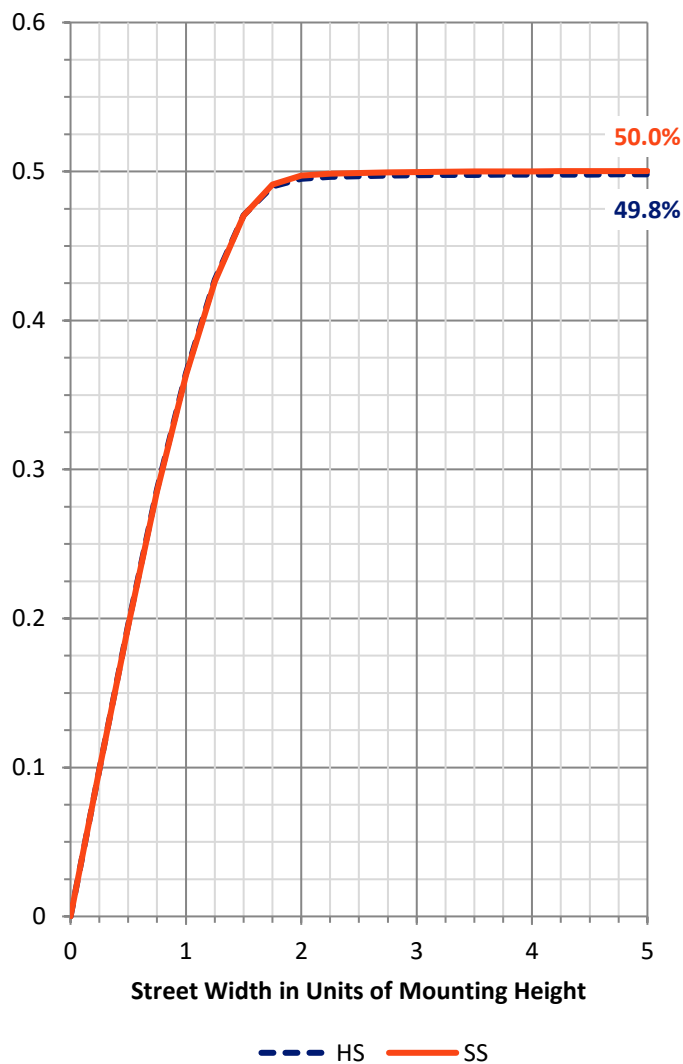
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9196.5	0.0	9196.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9196.5	0.0	9196.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18393.0	0.0	18393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.9	1.6
10°-20°	884.3	4.8
20°-30°	1601.4	8.7
30°-40°	2969.5	16.1
40°-50°	4874.3	26.5
50°-60°	6279.5	34.1
60°-70°	1383.9	7.5
70°-80°	80.3	0.4
80°-90°	16.9	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°	18393.0	100.0
0°-180°	18393.0	100.0

Coefficient of Utilization

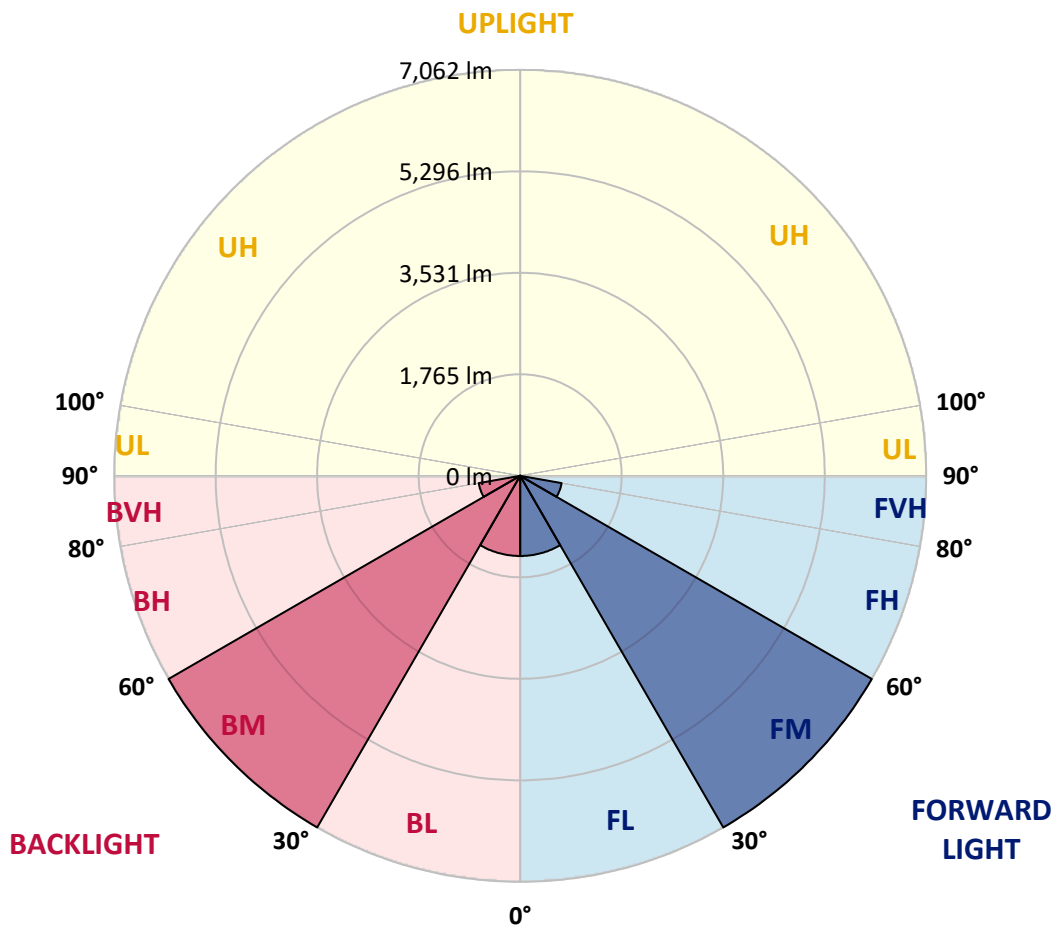


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1394.3	7.6			
FM (30°-60°)	7061.6	38.4			
FH (60°-80°)	732.1	4.0			G1/1800
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	1394.3	7.6	B3/2500		
BM (30°-60°)	7061.6	38.4	B4/8500		
BH (60°-80°)	732.1	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.5	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°	3222.8	3222.8	3222.8	3222.8	3222.8	3222.8	3222.8	3222.8	3222.8	3222.8	3222.8
2.5°	3229.5	3229.5	3232.8	3236.2	3212.9	3202.9	3206.2	3199.5	3196.2	3206.2	3206.2
5°	3219.5	3219.5	3209.5	3212.9	3212.9	3182.9	3182.9	3189.5	3189.5	3169.5	3162.9
7.5°	3192.9	3186.2	3172.9	3189.5	3179.5	3179.5	3156.2	3139.5	3132.9	3146.2	3132.9
10°	3136.2	3139.5	3152.9	3159.5	3152.9	3172.9	3132.9	3109.5	3086.2	3076.2	3076.2
12.5°	3109.5	3129.5	3109.5	3126.2	3149.5	3132.9	3109.5	3092.9	3059.5	3046.2	3046.2
15°	3106.2	3119.5	3126.2	3149.5	3139.5	3146.2	3099.5	3079.5	3029.5	3006.2	2996.2
17.5°	3102.9	3119.5	3129.5	3172.9	3179.5	3182.9	3146.2	3086.2	3042.9	3019.5	2996.2
20°	3139.5	3146.2	3166.2	3209.5	3236.2	3282.8	3216.2	3152.9	3059.5	3032.9	3022.9
22.5°	3186.2	3219.5	3239.5	3286.2	3356.2	3396.2	3309.5	3229.5	3132.9	3099.5	3059.5
25°	3336.2	3329.5	3362.8	3459.5	3516.1	3546.1	3476.1	3359.5	3232.8	3192.9	3199.5
27.5°	3522.8	3529.5	3559.5	3666.1	3749.4	3796.1	3712.8	3559.5	3436.2	3369.5	3362.8
30°	3766.1	3759.4	3792.8	3936.1	4086.1	4156.0	4009.4	3829.4	3709.4	3622.8	3642.8
32.5°	4022.7	4026.1	4119.4	4249.4	4492.7	4629.3	4392.7	4172.7	3992.7	3932.7	3902.7
35°	4402.7	4419.3	4492.7	4692.6	4962.6	5139.2	4879.3	4616.0	4409.3	4299.4	4312.7
37.5°	4872.6	4855.9	4979.3	5195.9	5479.2	5609.2	5389.2	5089.2	4879.3	4805.9	4852.6
40°	5372.5	5389.2	5452.5	5649.2	5965.8	6052.4	5725.8	5562.5	5379.2	5342.5	5399.2
42.5°	5872.5	5862.5	5909.1	6085.8	6315.7	6255.7	6062.4	5965.8	5835.8	5762.5	5839.1
45°	6239.1	6222.4	6309.1	6429.0	6512.4	6399.0	6312.4	6279.1	6212.4	6132.4	6202.4
47.5°	6595.7	6582.3	6665.7	6699.0	6705.7	6555.7	6572.3	6632.3	6465.7	6299.1	6379.0
50°	6899.0	6875.6	6979.0	7052.3	7035.6	6795.6	6855.6	6795.6	6535.7	6339.0	6309.1
52.5°	7405.6	7415.6	7525.5	7658.8	7618.9	7418.9	7332.2	7058.9	6725.7	6549.0	6445.7
55°	7725.5	7675.5	7865.5	8288.8	8335.4	8128.8	7745.5	7342.2	6842.3	6625.7	6599.0
56°	7425.6	7488.9	7788.8	8262.1	8502.1	8312.1	7755.5	7272.2	6722.3	6429.0	6409.0
57.5°	6662.3	6629.0	7035.6	7682.2	8335.4	8255.4	7482.2	6772.3	6132.4	5802.5	5762.5
60°	4146.0	4242.7	4599.3	5399.2	6272.4	6312.4	5545.8	4935.9	4189.4	3896.1	3966.1
62.5°	1623.1	1539.8	1763.1	2359.6	2959.6	3092.9	2802.9	2329.7	1913.0	1623.1	1603.1
65°	376.6	366.6	413.3	569.9	796.5	923.2	876.5	629.9	463.3	439.9	406.6
67.5°	213.3	213.3	203.3	203.3	223.3	236.6	226.6	223.3	233.3	243.3	240.0
70°	150.0	146.6	140.0	143.3	136.6	136.6	146.6	163.3	176.6	176.6	180.0
72.5°	90.0	90.0	90.0	100.0	100.0	100.0	110.0	123.3	126.6	123.3	120.0
75°	40.0	40.0	46.7	56.7	63.3	66.7	76.7	83.3	90.0	83.3	76.7
77.5°	10.0	10.0	16.7	23.3	30.0	36.7	50.0	60.0	63.3	60.0	50.0
80°	3.3	3.3	6.7	16.7	30.0	36.7	50.0	53.3	56.7	50.0	40.0
82.5°	3.3	3.3	6.7	16.7	23.3	30.0	40.0	46.7	50.0	43.3	40.0
85°	0.0	3.3	6.7	13.3	20.0	26.7	26.7	20.0	16.7	10.0	13.3
87.5°	0.0	0.0	3.3	3.3	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)