

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: P531575

Luminaire Tested: **GALN-SA6D-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531575
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-SA6D-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA 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: 20239 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

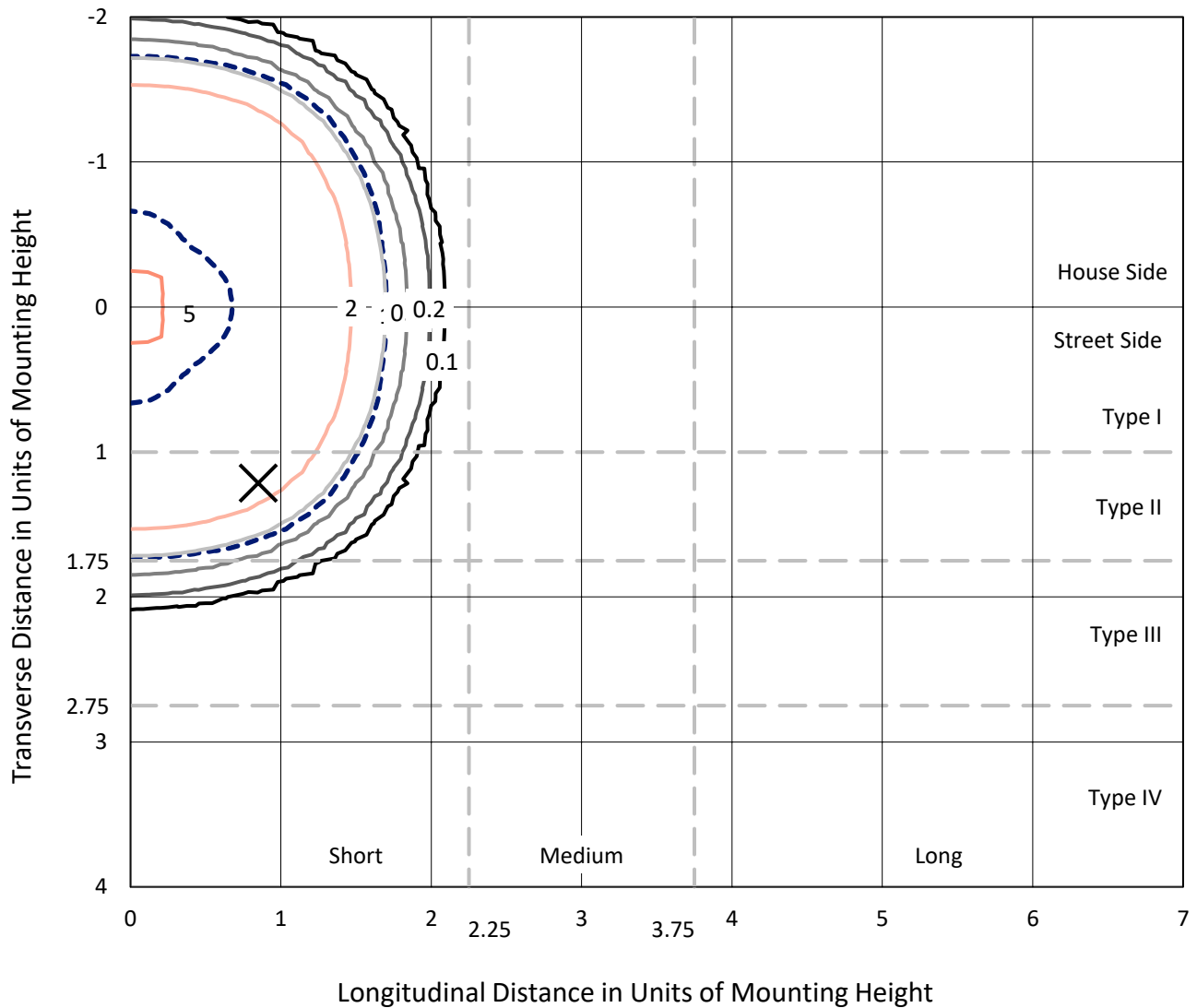
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

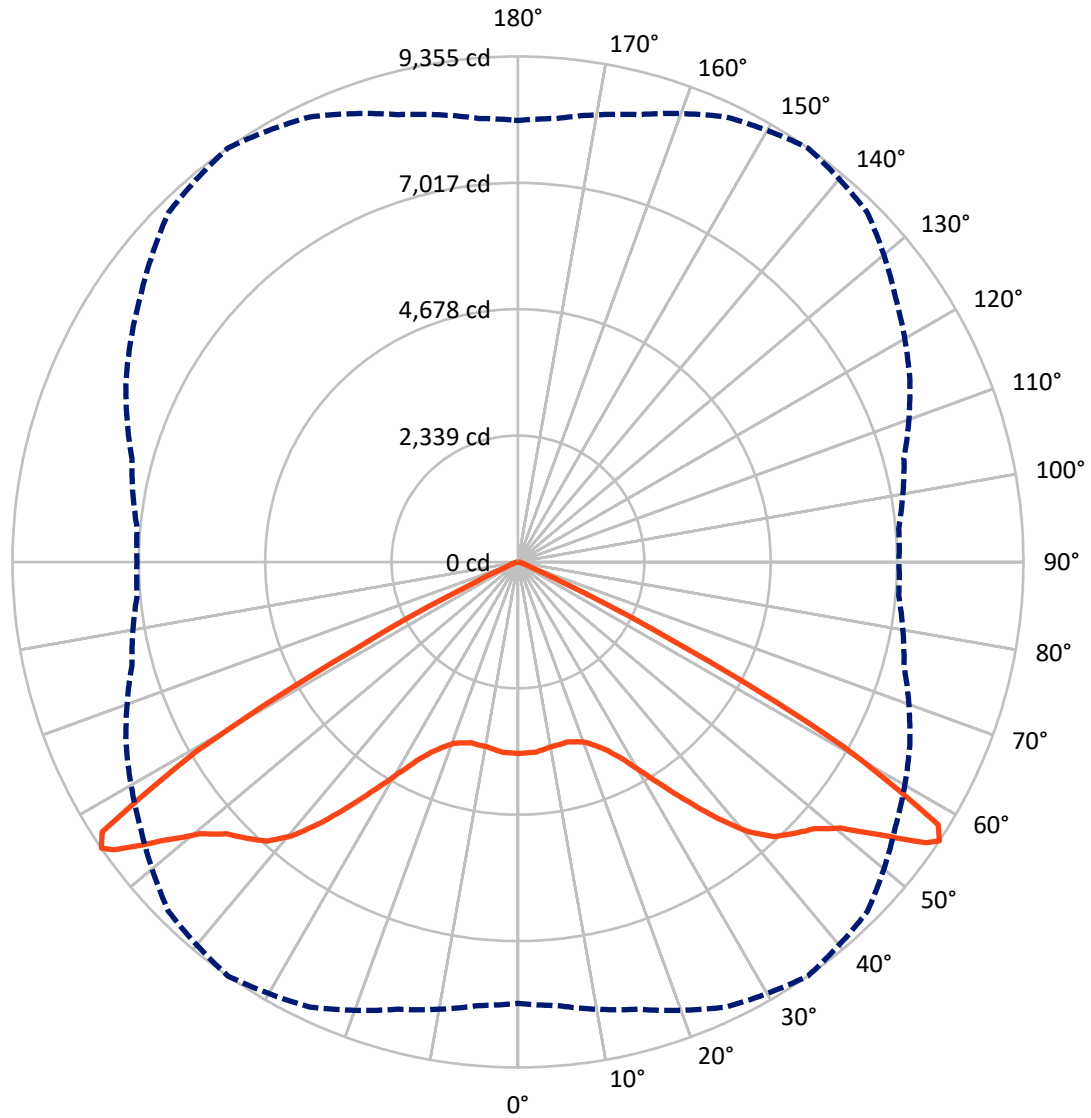
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	10119.5	0.0	10119.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10119.5	0.0	10119.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20239.0	0.0	20239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.3	1.6
10°-20°	973.1	4.8
20°-30°	1762.1	8.7
30°-40°	3267.6	16.1
40°-50°	5363.5	26.5
50°-60°	6909.7	34.1
60°-70°	1522.8	7.5
70°-80°	88.3	0.4
80°-90°	18.6	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°	20239.0	100.0
0°-180°	20239.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531575

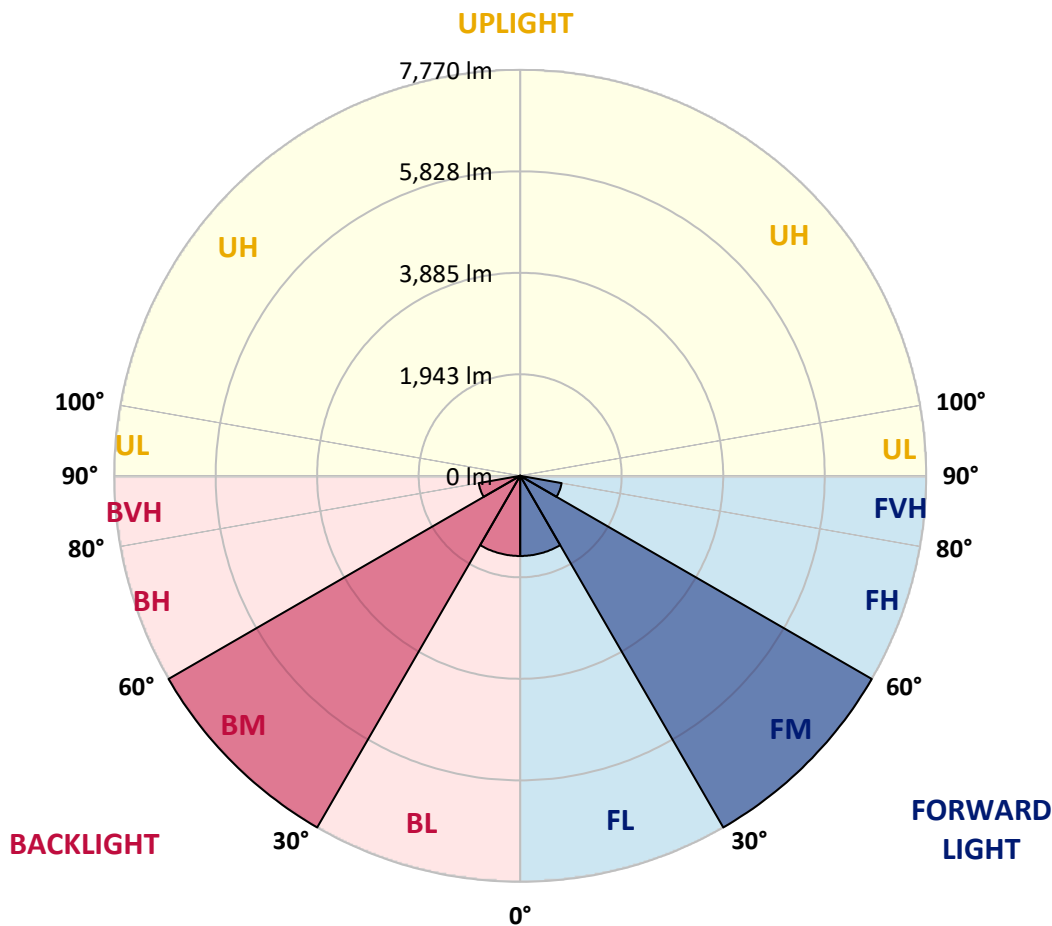
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1534.2	7.6			
FM (30°-60°)	7770.4	38.4			
FH (60°-80°)	805.6	4.0			G1/1800
FVH (80°-90°)	9.3	0.0			G0/10
BL (0°-30°)	1534.2	7.6	B3/2500		
BM (30°-60°)	7770.4	38.4	B4/8500		
BH (60°-80°)	805.6	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.3	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°	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3
2.5°	3553.6	3553.6	3557.3	3561.0	3535.3	3524.3	3528.0	3520.6	3517.0	3528.0	3528.0
5°	3542.6	3542.6	3531.6	3535.3	3535.3	3502.3	3502.3	3509.6	3509.6	3487.6	3480.3
7.5°	3513.3	3506.0	3491.3	3509.6	3498.6	3498.6	3473.0	3454.6	3447.3	3462.0	3447.3
10°	3451.0	3454.6	3469.3	3476.6	3469.3	3491.3	3447.3	3421.6	3395.9	3384.9	3384.9
12.5°	3421.6	3443.6	3421.6	3440.0	3465.6	3447.3	3421.6	3403.3	3366.6	3351.9	3351.9
15°	3418.0	3432.6	3440.0	3465.6	3454.6	3462.0	3410.6	3388.6	3333.6	3307.9	3296.9
17.5°	3414.3	3432.6	3443.6	3491.3	3498.6	3502.3	3462.0	3395.9	3348.3	3322.6	3296.9
20°	3454.6	3462.0	3484.0	3531.6	3561.0	3612.3	3539.0	3469.3	3366.6	3337.3	3326.3
22.5°	3506.0	3542.6	3564.6	3616.0	3693.0	3737.0	3641.7	3553.6	3447.3	3410.6	3366.6
25°	3671.0	3663.7	3700.3	3806.7	3869.0	3902.0	3825.0	3696.7	3557.3	3513.3	3520.6
27.5°	3876.4	3883.7	3916.7	4034.1	4125.7	4177.1	4085.4	3916.7	3781.0	3707.7	3700.3
30°	4144.1	4136.7	4173.4	4331.1	4496.1	4573.2	4411.8	4213.8	4081.7	3986.4	4008.4
32.5°	4426.5	4430.1	4532.8	4675.8	4943.6	5093.9	4833.5	4591.5	4393.5	4327.4	4294.4
35°	4844.5	4862.9	4943.6	5163.6	5460.7	5655.0	5369.0	5079.3	4851.9	4730.9	4745.5
37.5°	5361.6	5343.3	5479.0	5717.4	6029.1	6172.1	5930.1	5600.0	5369.0	5288.3	5339.6
40°	5911.7	5930.1	5999.8	6216.1	6564.5	6659.9	6300.5	6120.8	5919.1	5878.7	5941.1
42.5°	6461.8	6450.8	6502.2	6696.5	6949.6	6883.6	6670.9	6564.5	6421.5	6340.8	6425.2
45°	6865.2	6846.9	6942.3	7074.3	7166.0	7041.3	6945.9	6909.2	6835.9	6747.9	6824.9
47.5°	7257.6	7243.0	7334.7	7371.3	7378.7	7213.6	7232.0	7298.0	7114.6	6931.3	7019.3
50°	7591.4	7565.7	7679.4	7760.1	7741.7	7477.7	7543.7	7477.7	7191.6	6975.3	6942.3
52.5°	8148.8	8159.8	8280.8	8427.5	8383.5	8163.5	8068.1	7767.4	7400.7	7206.3	7092.6
55°	8500.9	8445.9	8654.9	9120.6	9172.0	8944.6	8522.9	8079.1	7529.0	7290.7	7261.3
56°	8170.8	8240.5	8570.6	9091.3	9355.4	9146.3	8533.9	8002.1	7397.0	7074.3	7052.3
57.5°	7331.0	7294.3	7741.7	8453.2	9172.0	9084.0	8233.2	7452.0	6747.9	6384.8	6340.8
60°	4562.2	4668.5	5060.9	5941.1	6901.9	6945.9	6102.4	5431.3	4609.8	4287.1	4364.1
62.5°	1786.0	1694.3	1940.0	2596.5	3256.6	3403.3	3084.2	2563.5	2105.0	1786.0	1764.0
65°	414.4	403.4	454.7	627.1	876.5	1015.9	964.5	693.1	509.8	484.1	447.4
67.5°	234.7	234.7	223.7	223.7	245.7	260.4	249.4	245.7	256.7	267.7	264.0
70°	165.0	161.4	154.0	157.7	150.4	150.4	161.4	179.7	194.4	194.4	198.0
72.5°	99.0	99.0	99.0	110.0	110.0	110.0	121.0	135.7	139.4	135.7	132.0
75°	44.0	44.0	51.3	62.3	69.7	73.3	84.3	91.7	99.0	91.7	84.3
77.5°	11.0	11.0	18.3	25.7	33.0	40.3	55.0	66.0	69.7	66.0	55.0
80°	3.7	3.7	7.3	18.3	33.0	40.3	55.0	58.7	62.3	55.0	44.0
82.5°	3.7	3.7	7.3	18.3	25.7	33.0	44.0	51.3	55.0	47.7	44.0
85°	0.0	3.7	7.3	14.7	22.0	29.3	29.3	22.0	18.3	11.0	14.7
87.5°	0.0	0.0	3.7	3.7	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)