

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: P530874

Luminaire Tested: **GALN-SA6A-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530874
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-SA6A-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 17596 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

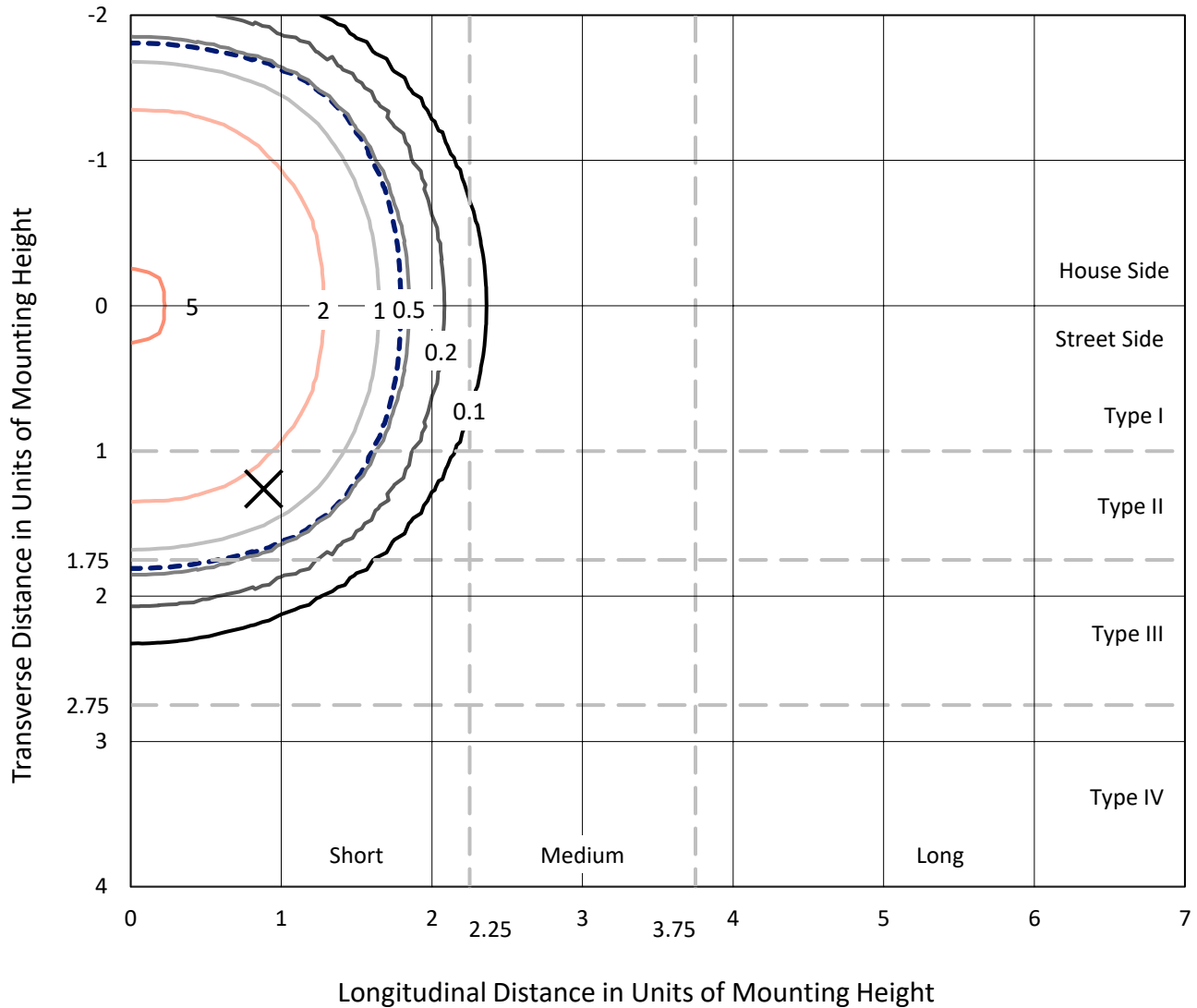
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

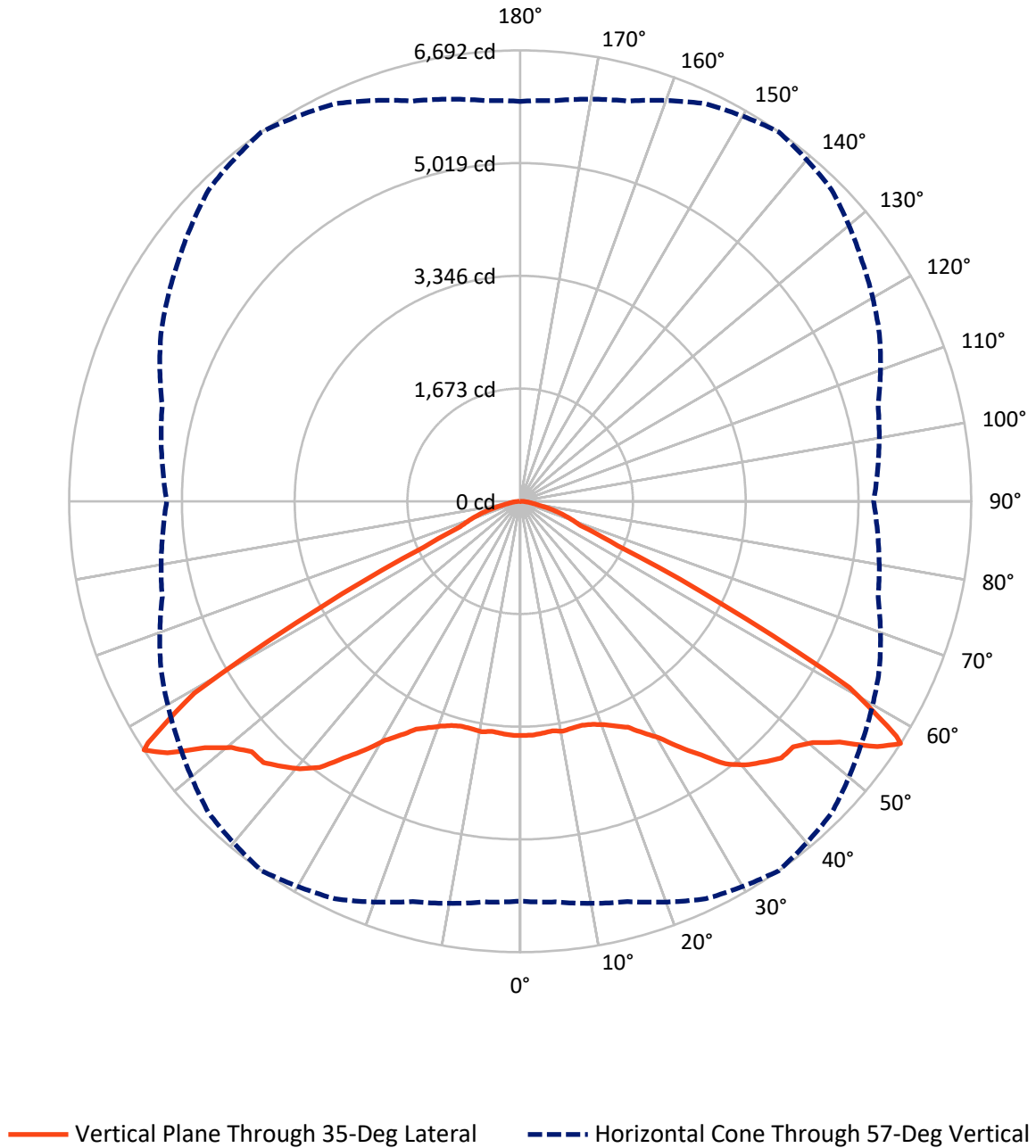
✕ Max cd
 - - - 1/2 Max cd



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





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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8798.0	0.0	8798.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8798.0	0.0	8798.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17596.0	0.0	17596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.4	1.9
10°-20°	975.7	5.5
20°-30°	1704.1	9.7
30°-40°	2792.2	15.9
40°-50°	4094.1	23.3
50°-60°	5156.8	29.3
60°-70°	1939.4	11.0
70°-80°	515.7	2.9
80°-90°	88.4	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°	17596.0	100.0
0°-180°	17596.0	100.0

Coefficient of Utilization



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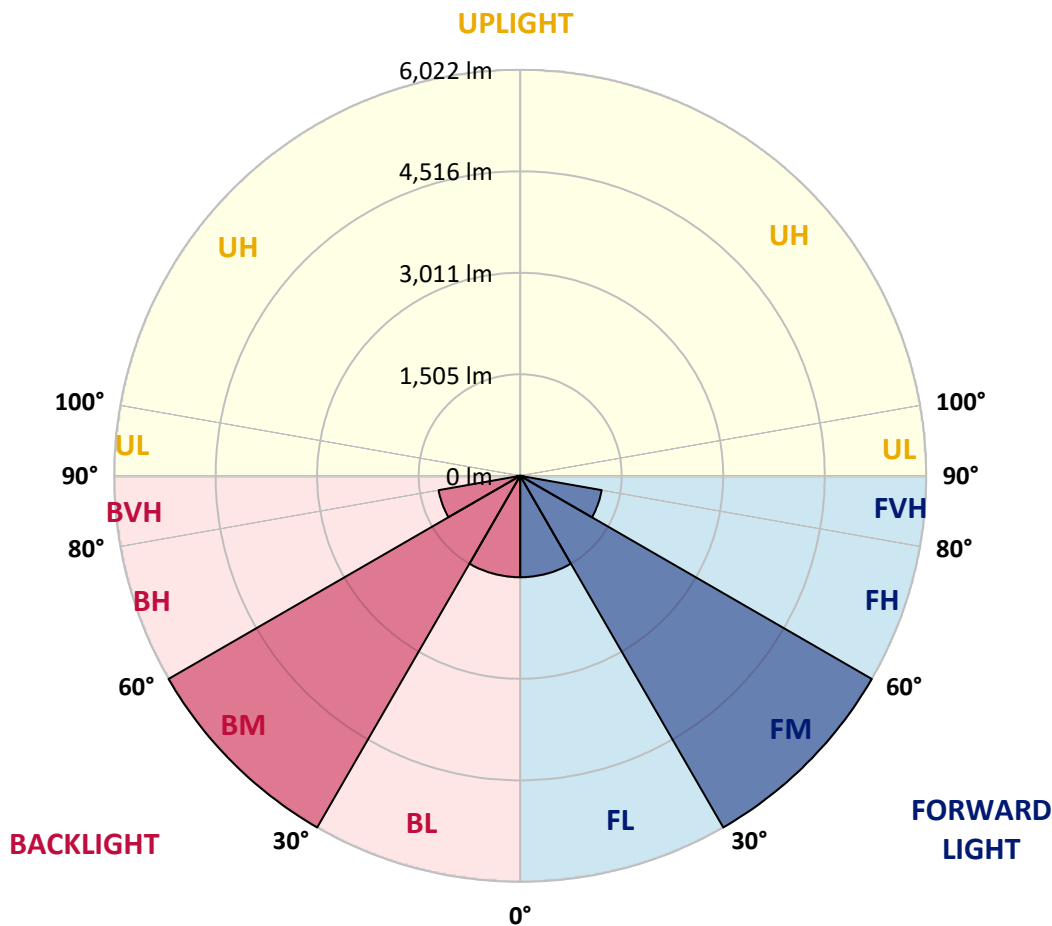
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1504.7	8.6			
FM (30°-60°)	6021.6	34.2			
FH (60°-80°)	1227.6	7.0			G1/1800
FVH (80°-90°)	44.2	0.3			G1/100
BL (0°-30°)	1504.7	8.6	B3/2500		
BM (30°-60°)	6021.6	34.2	B4/8500		
BH (60°-80°)	1227.6	7.0	B3/2500		G1/1800
BVH (80°-90°)	44.2	0.3			G1/100
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°	3475.1	3475.1	3475.1	3475.1	3475.1	3475.1	3475.1	3475.1	3475.1	3475.1	3475.1
2.5°	3457.7	3492.4	3477.2	3468.6	3475.1	3464.2	3446.9	3466.4	3462.1	3444.7	3438.2
5°	3449.1	3475.1	3457.7	3475.1	3457.7	3488.1	3479.4	3446.9	3485.9	3449.1	3462.1
7.5°	3442.6	3451.2	3455.6	3446.9	3440.4	3477.2	3457.7	3442.6	3420.9	3414.4	3425.2
10°	3427.4	3449.1	3416.5	3459.9	3468.6	3442.6	3442.6	3414.4	3397.0	3386.2	3423.1
12.5°	3466.4	3429.6	3425.2	3446.9	3453.4	3464.2	3433.9	3418.7	3386.2	3390.5	3384.0
15°	3420.9	3436.1	3438.2	3442.6	3449.1	3475.1	3446.9	3414.4	3401.4	3355.8	3360.2
17.5°	3438.2	3423.1	3438.2	3488.1	3479.4	3498.9	3468.6	3418.7	3388.4	3362.4	3397.0
20°	3468.6	3462.1	3468.6	3529.3	3540.1	3557.5	3531.4	3485.9	3427.4	3397.0	3414.4
22.5°	3501.1	3496.8	3501.1	3559.6	3622.5	3644.2	3618.2	3511.9	3481.6	3425.2	3405.7
25°	3559.6	3564.0	3609.5	3674.5	3715.7	3756.9	3709.2	3633.3	3535.8	3501.1	3459.9
27.5°	3689.7	3700.5	3726.6	3821.9	3893.5	3930.3	3863.1	3759.1	3698.4	3626.8	3616.0
30°	3850.1	3850.1	3895.6	3978.0	4075.6	4131.9	4049.6	3926.0	3852.3	3813.3	3789.4
32.5°	4062.6	4038.7	4056.1	4201.3	4353.1	4400.8	4290.2	4138.4	4021.4	3969.4	3952.0
35°	4244.7	4259.8	4298.9	4455.0	4624.0	4734.6	4561.2	4363.9	4244.7	4197.0	4188.3
37.5°	4481.0	4507.0	4526.5	4741.1	4944.9	4986.1	4819.2	4660.9	4515.7	4476.6	4455.0
40°	4814.8	4797.5	4804.0	4962.2	5146.5	5172.5	5007.8	4895.0	4775.8	4752.0	4752.0
42.5°	5090.1	5070.6	5092.3	5150.8	5291.7	5272.2	5181.2	5098.8	5048.9	5022.9	5048.9
45°	5257.1	5252.7	5291.7	5335.1	5434.8	5369.8	5298.3	5311.3	5263.6	5220.2	5218.0
47.5°	5439.2	5411.0	5458.7	5523.7	5447.8	5417.5	5413.1	5441.3	5426.2	5350.3	5326.4
50°	5528.0	5517.2	5593.1	5669.0	5627.8	5558.4	5573.6	5619.1	5424.0	5322.1	5263.6
52.5°	5766.5	5768.7	5913.9	5955.1	5937.8	5835.9	5868.4	5744.8	5515.0	5372.0	5378.5
55°	6141.5	6126.4	6289.0	6410.4	6429.9	6299.8	6143.7	5970.3	5682.0	5536.7	5493.4
57°	5935.6	5970.3	6150.2	6510.1	6692.2	6538.3	6197.9	5881.4	5497.7	5322.1	5244.1
57.5°	5660.3	5716.6	6028.8	6390.9	6581.6	6568.6	6130.7	5716.6	5374.1	5101.0	5107.5
60°	4147.1	4158.0	4439.8	5014.3	5610.4	5623.4	5090.1	4541.7	4160.1	3863.1	3904.3
62.5°	2187.4	2237.2	2350.0	2811.7	3327.7	3453.4	3130.4	2848.6	2519.1	2293.6	2315.3
65°	1157.6	1151.1	1205.3	1335.4	1589.0	1654.1	1610.7	1387.4	1272.5	1235.7	1237.8
67.5°	940.9	951.7	945.2	951.7	969.0	997.2	990.7	999.4	1005.9	1016.7	1014.6
70°	797.8	797.8	802.1	804.3	804.3	817.3	832.5	860.6	862.8	873.6	878.0
72.5°	628.7	624.3	630.8	646.0	648.2	659.0	680.7	698.1	704.6	704.6	691.5
75°	427.1	431.4	440.1	453.1	466.1	485.6	502.9	513.8	518.1	511.6	505.1
77.5°	240.6	245.0	251.5	271.0	286.2	303.5	323.0	333.9	344.7	346.9	333.9
80°	143.1	143.1	153.9	169.1	186.4	203.8	221.1	234.1	238.5	238.5	232.0
82.5°	86.7	88.9	97.6	112.7	127.9	138.7	153.9	164.8	173.4	171.3	166.9
85°	45.5	45.5	54.2	67.2	78.0	88.9	88.9	82.4	78.0	67.2	62.9
87.5°	15.2	13.0	17.3	17.3	15.2	17.3	17.3	19.5	19.5	19.5	19.5
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)