

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: P531367

Luminaire Tested: **GALN-SA6C-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531367
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-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 19882 lumens
Efficiency: N/A
Efficacy: 61.9 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



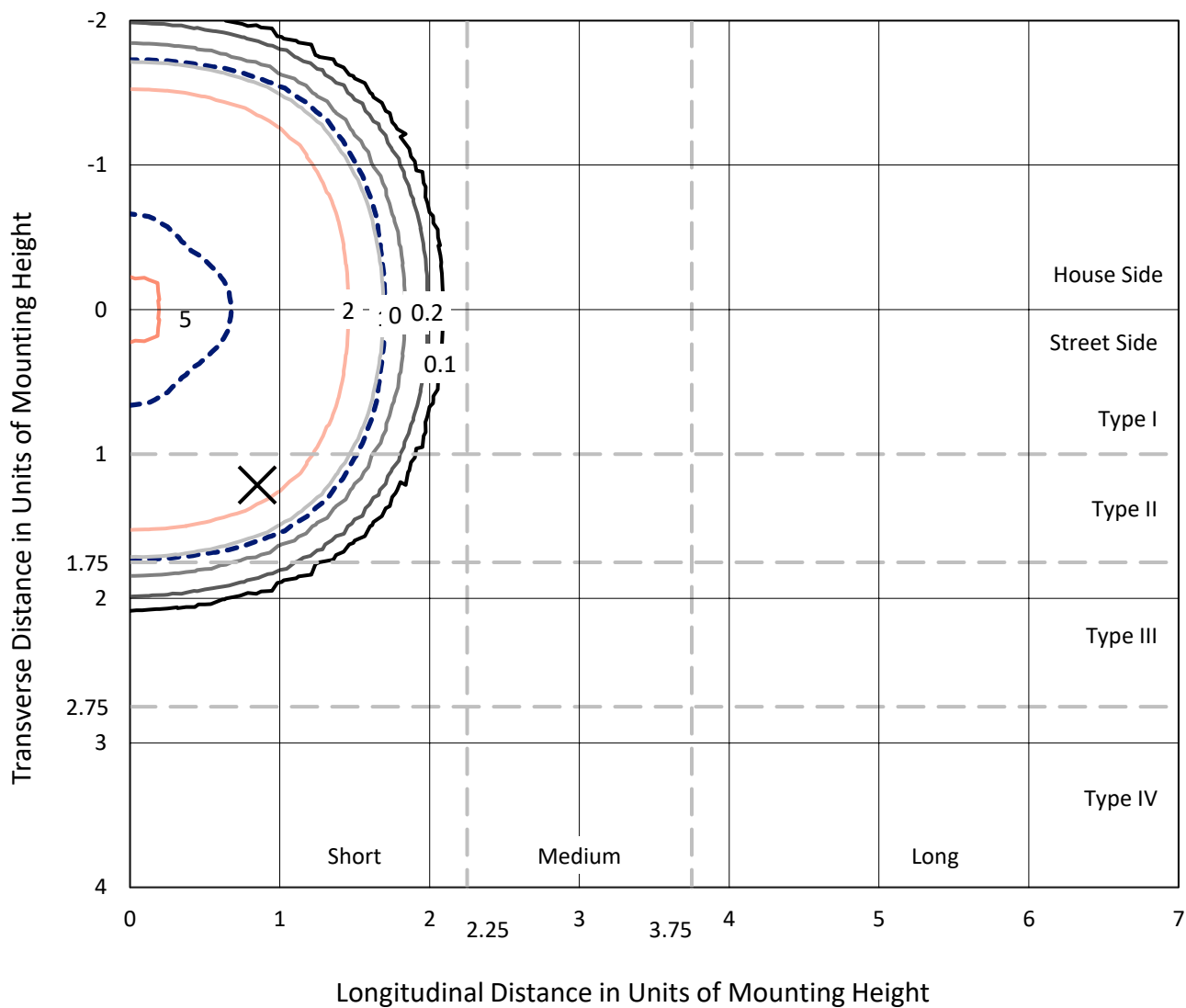
REPORT NUMBER: P531367

CATALOG NUMBER: GALN-SA6C-830-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

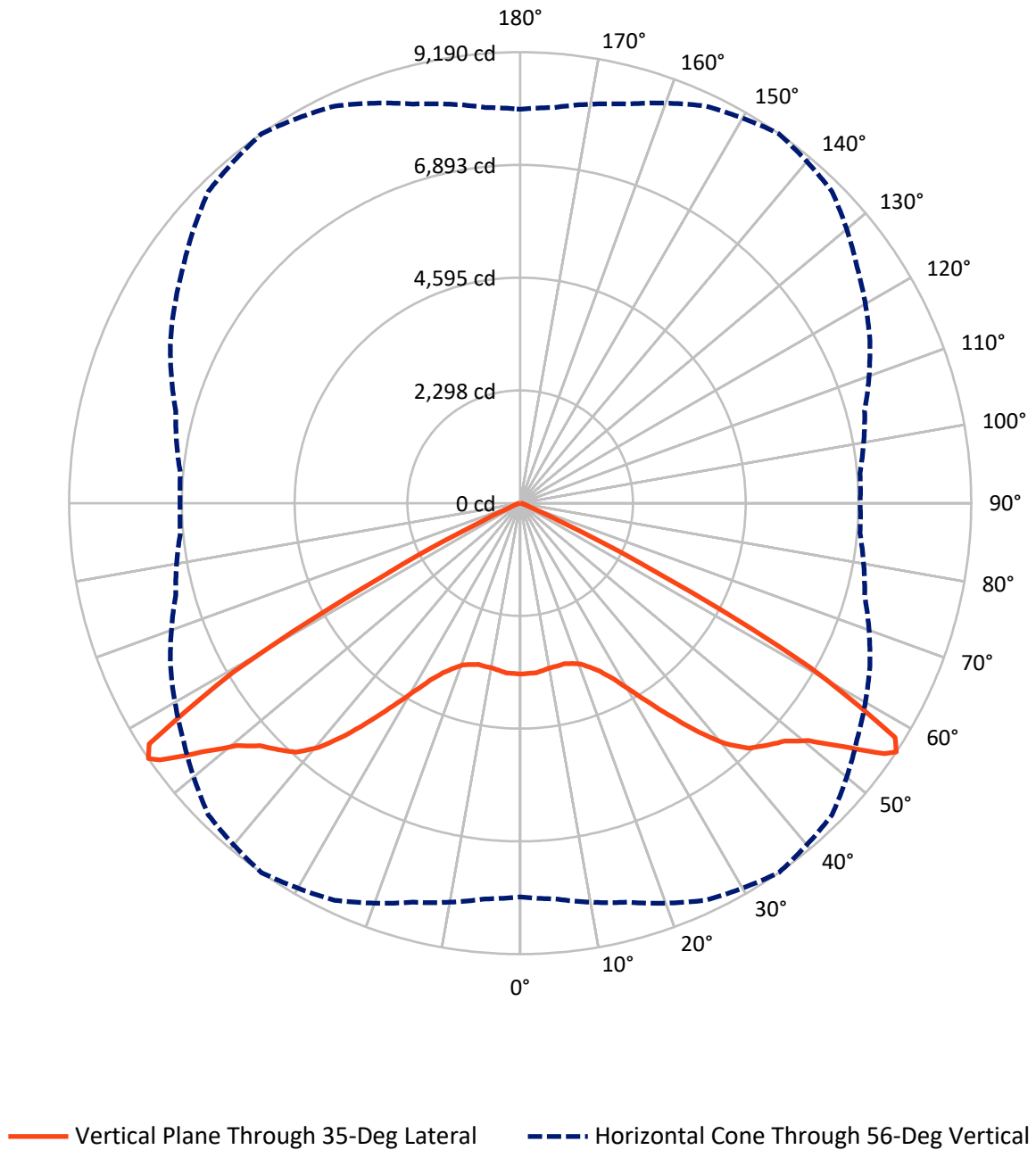
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

REPORT NUMBER: P531367
CATALOG NUMBER: GALN-SA6C-830-U-5MQ-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9941.0	0.0	9941.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9941.0	0.0	9941.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19882.0	0.0	19882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.4	1.6
10°-20°	955.9	4.8
20°-30°	1731.0	8.7
30°-40°	3209.9	16.1
40°-50°	5268.9	26.5
50°-60°	6787.9	34.1
60°-70°	1496.0	7.5
70°-80°	86.8	0.4
80°-90°	18.3	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°	19882.0	100.0
0°-180°	19882.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531367

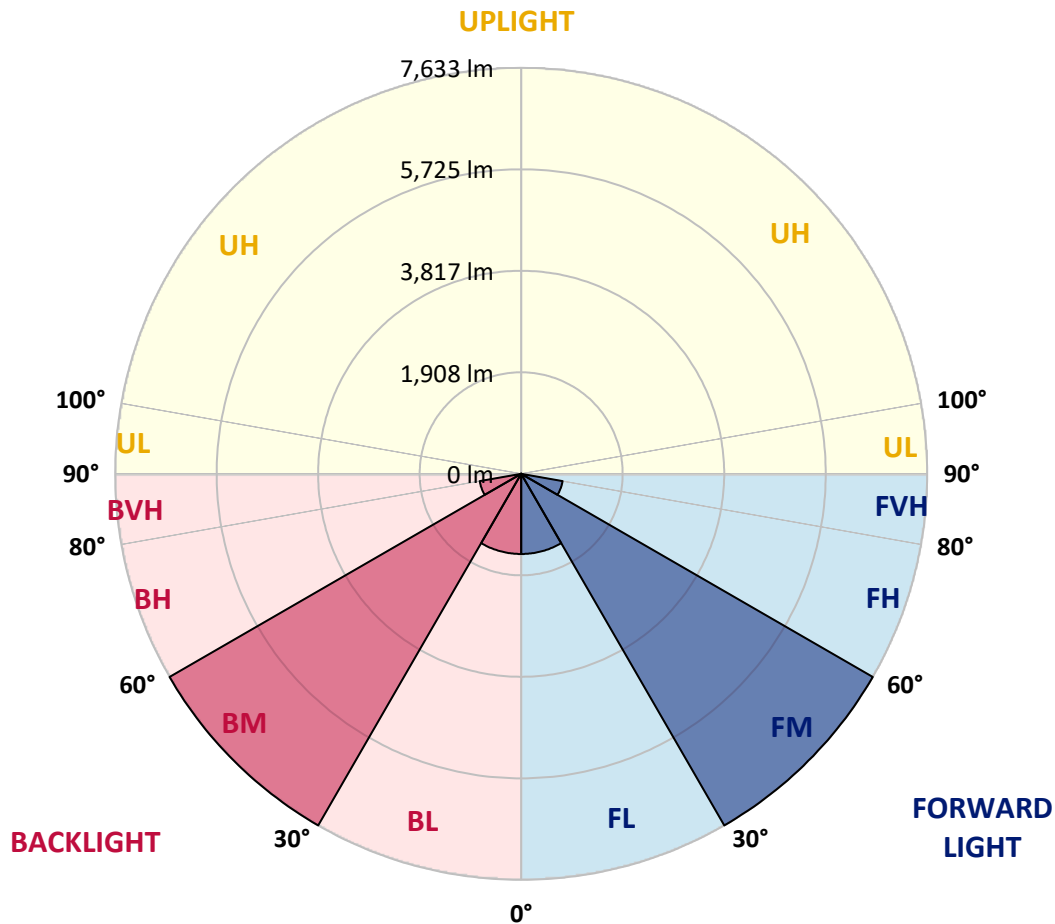
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1507.2	7.6			
FM	(30°-60°)	7633.3	38.4			
FH	(60°-80°)	791.4	4.0			G1/1800
FVH	(80°-90°)	9.1	0.0			G0/10
BL	(0°-30°)	1507.2	7.6	B3/2500		
BM	(30°-60°)	7633.3	38.4	B4/8500		
BH	(60°-80°)	791.4	4.0	B2/1000		G1/1800
BVH	(80°-90°)	9.1	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°	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8
2.5°	3491.0	3491.0	3494.6	3498.2	3472.9	3462.1	3465.7	3458.5	3454.9	3465.7	3465.7
5°	3480.2	3480.2	3469.3	3472.9	3472.9	3440.5	3440.5	3447.7	3447.7	3426.1	3418.9
7.5°	3451.3	3444.1	3429.7	3447.7	3436.9	3436.9	3411.7	3393.7	3386.5	3400.9	3386.5
10°	3390.1	3393.7	3408.1	3415.3	3408.1	3429.7	3386.5	3361.3	3336.0	3325.2	3325.2
12.5°	3361.3	3382.9	3361.3	3379.3	3404.5	3386.5	3361.3	3343.3	3307.2	3292.8	3292.8
15°	3357.7	3372.1	3379.3	3404.5	3393.7	3400.9	3350.5	3328.8	3274.8	3249.6	3238.8
17.5°	3354.1	3372.1	3382.9	3429.7	3436.9	3440.5	3400.9	3336.0	3289.2	3264.0	3238.8
20°	3393.7	3400.9	3422.5	3469.3	3498.2	3548.6	3476.5	3408.1	3307.2	3278.4	3267.6
22.5°	3444.1	3480.2	3501.8	3552.2	3627.9	3671.1	3577.4	3491.0	3386.5	3350.5	3307.2
25°	3606.2	3599.0	3635.1	3739.5	3800.8	3833.2	3757.6	3631.5	3494.6	3451.3	3458.5
27.5°	3808.0	3815.2	3847.6	3962.9	4053.0	4103.4	4013.3	3847.6	3714.3	3642.3	3635.1
30°	4071.0	4063.8	4099.8	4254.7	4416.8	4492.5	4334.0	4139.4	4009.7	3916.1	3937.7
32.5°	4348.4	4352.0	4452.9	4593.4	4856.4	5004.1	4748.3	4510.5	4316.0	4251.1	4218.7
35°	4759.1	4777.1	4856.4	5072.5	5364.3	5555.3	5274.3	4989.7	4766.3	4647.4	4661.8
37.5°	5267.1	5249.0	5382.3	5616.5	5922.7	6063.2	5825.5	5501.2	5274.3	5195.0	5245.4
40°	5807.5	5825.5	5893.9	6106.5	6448.7	6542.4	6189.3	6012.8	5814.7	5775.0	5836.3
42.5°	6347.9	6337.0	6387.5	6578.4	6827.0	6762.2	6553.2	6448.7	6308.2	6229.0	6311.8
45°	6744.1	6726.1	6819.8	6949.5	7039.6	6917.1	6823.4	6787.4	6715.3	6628.9	6704.5
47.5°	7129.6	7115.2	7205.3	7241.3	7248.5	7086.4	7104.4	7169.3	6989.1	6809.0	6895.5
50°	7457.5	7432.2	7543.9	7623.2	7605.2	7345.8	7410.6	7345.8	7064.8	6852.2	6819.8
52.5°	8005.1	8015.9	8134.8	8278.9	8235.6	8019.5	7925.8	7630.4	7270.1	7079.2	6967.5
55°	8350.9	8296.9	8502.2	8959.8	9010.2	8786.8	8372.5	7936.6	7396.2	7162.1	7133.2
56°	8026.7	8095.1	8419.4	8930.9	9190.3	8985.0	8383.3	7861.0	7266.5	6949.5	6927.9
57.5°	7201.7	7165.7	7605.2	8304.1	9010.2	8923.7	8087.9	7320.6	6628.9	6272.2	6229.0
60°	4481.7	4586.2	4971.6	5836.3	6780.2	6823.4	5994.8	5335.5	4528.5	4211.5	4287.1
62.5°	1754.5	1664.4	1905.8	2550.7	3199.1	3343.3	3029.8	2518.2	2067.9	1754.5	1732.9
65°	407.1	396.3	446.7	616.1	861.0	997.9	947.5	680.9	500.8	475.5	439.5
67.5°	230.6	230.6	219.8	219.8	241.4	255.8	245.0	241.4	252.2	263.0	259.4
70°	162.1	158.5	151.3	154.9	147.7	147.7	158.5	176.5	190.9	190.9	194.5
72.5°	97.3	97.3	97.3	108.1	108.1	108.1	118.9	133.3	136.9	133.3	129.7
75°	43.2	43.2	50.4	61.2	68.5	72.1	82.9	90.1	97.3	90.1	82.9
77.5°	10.8	10.8	18.0	25.2	32.4	39.6	54.0	64.8	68.5	64.8	54.0
80°	3.6	3.6	7.2	18.0	32.4	39.6	54.0	57.6	61.2	54.0	43.2
82.5°	3.6	3.6	7.2	18.0	25.2	32.4	43.2	50.4	54.0	46.8	43.2
85°	0.0	3.6	7.2	14.4	21.6	28.8	28.8	21.6	18.0	10.8	14.4
87.5°	0.0	0.0	3.6	3.6	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)