

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: P651054

Luminaire Tested: **GALN-SA8C-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24904.5 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

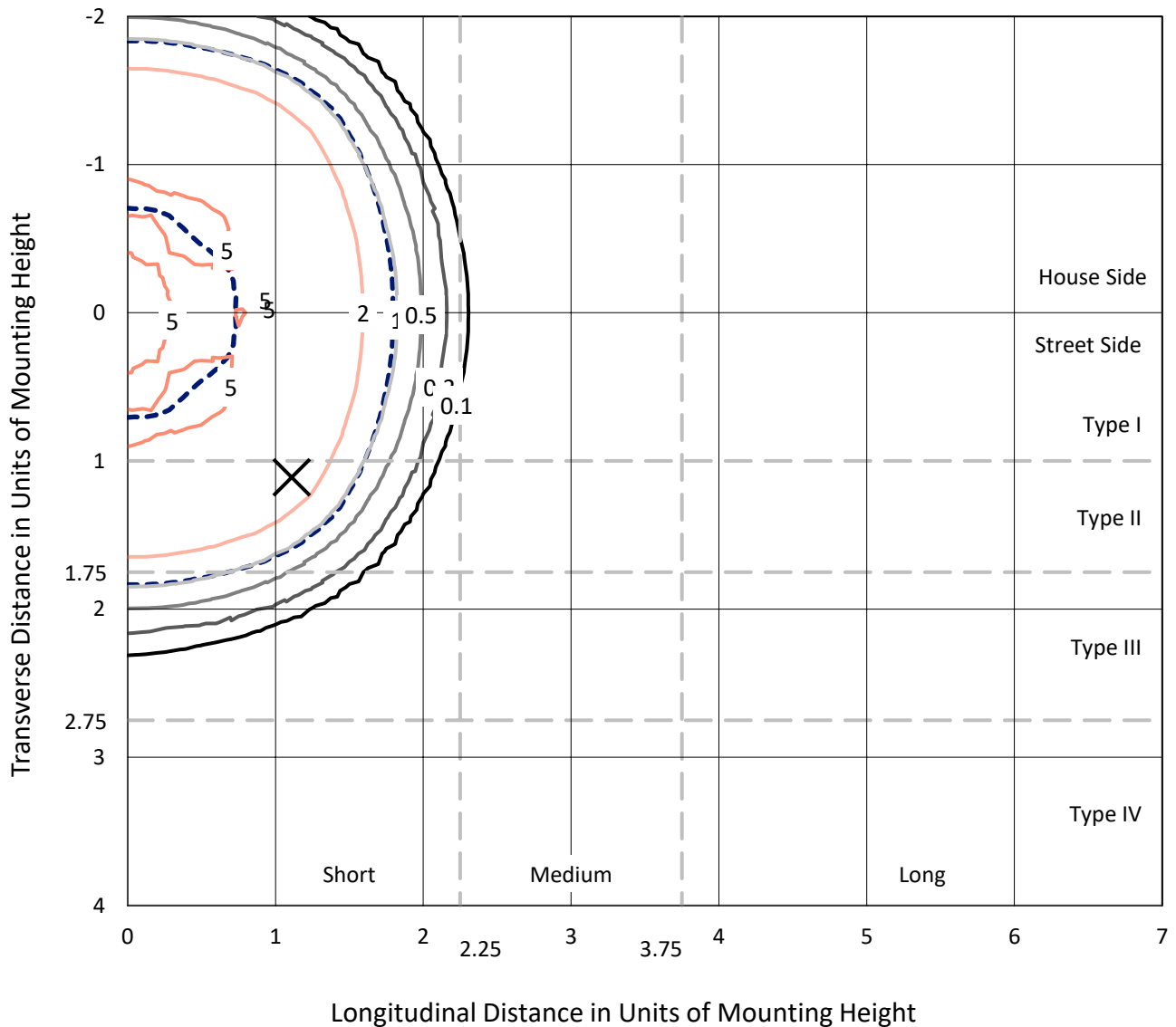
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

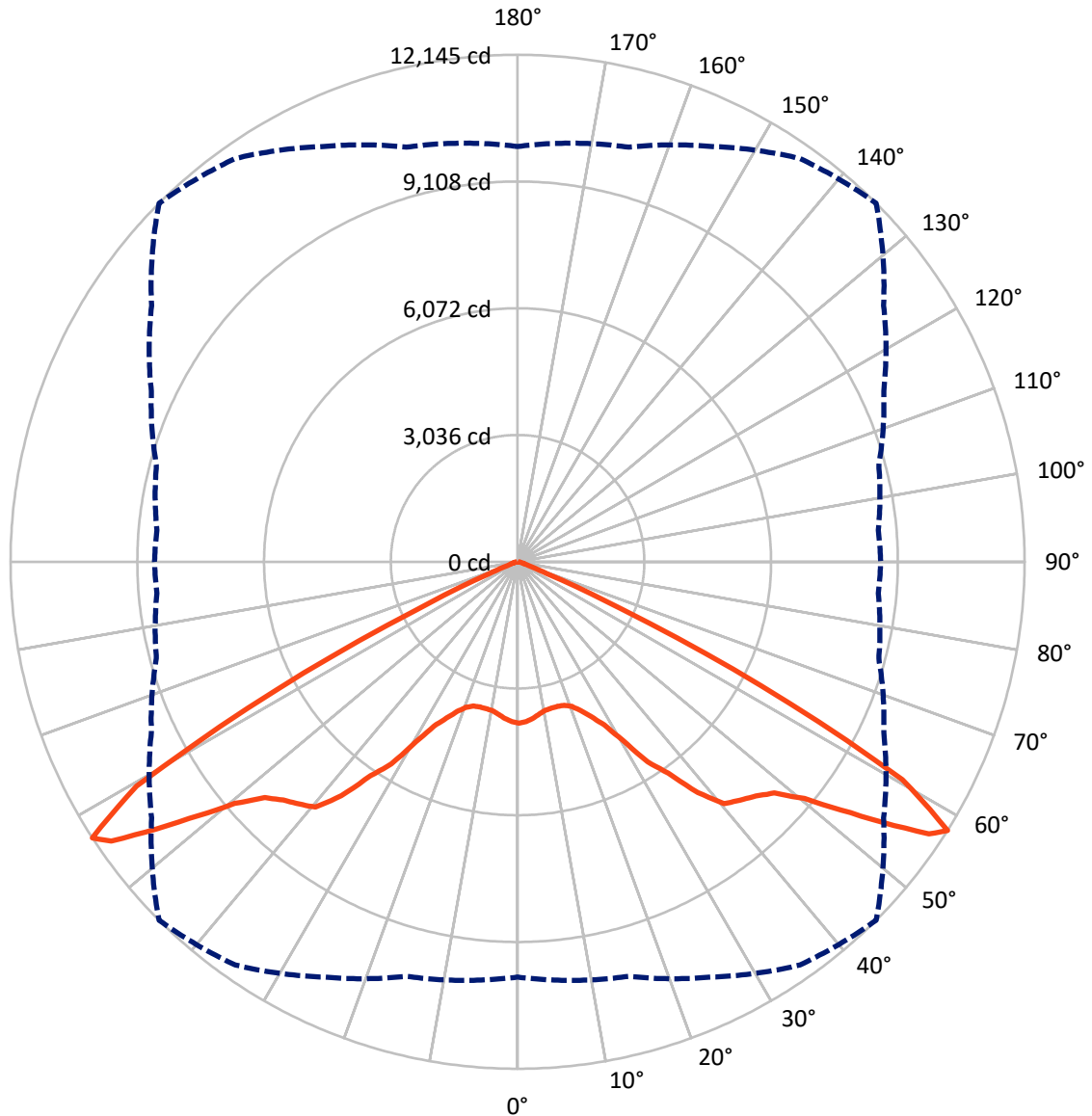
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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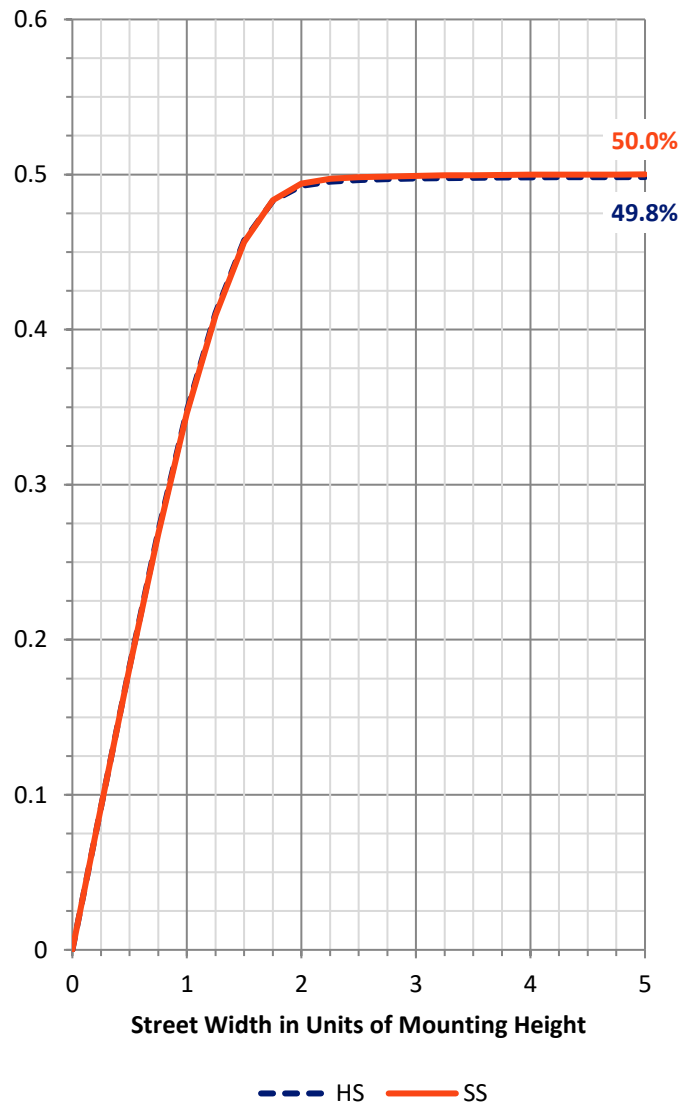
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12452.3	0.0	12452.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12452.3	0.0	12452.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	24904.5	0.0	24904.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.0	1.4
10°-20°	1026.1	4.1
20°-30°	1894.0	7.6
30°-40°	3724.8	15.0
40°-50°	6066.6	24.4
50°-60°	8651.8	34.7
60°-70°	2995.4	12.0
70°-80°	160.7	0.6
80°-90°	30.2	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°	24904.5	100.0
0°-180°	24904.5	100.0

Coefficient of Utilization

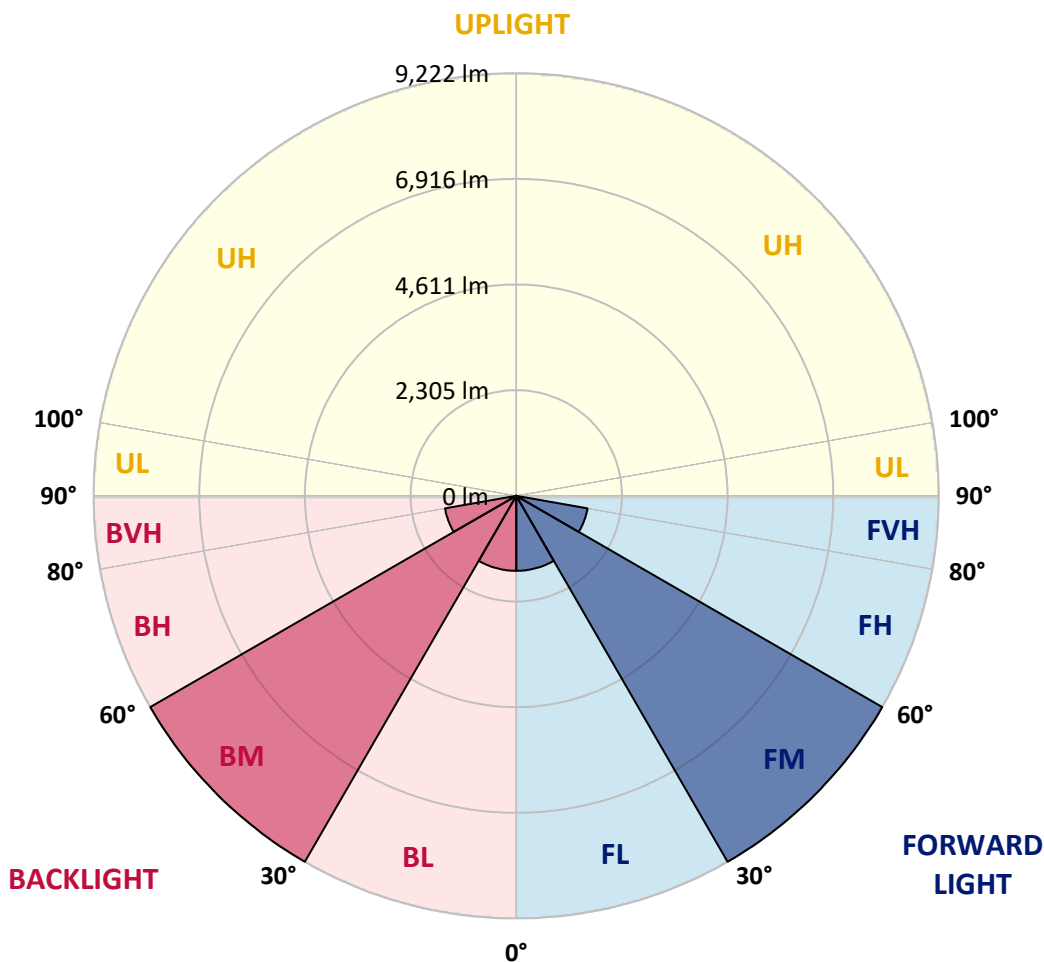


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1637.5	6.6			
FM (30°-60°)	9221.6	37.0			
FH (60°-80°)	1578.1	6.3			G1/1800
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	1637.5	6.6	B3/2500		
BM (30°-60°)	9221.6	37.0	B5		
BH (60°-80°)	1578.1	6.3	B3/2500		G1/1800
BVH (80°-90°)	15.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0
2.5°	3852.5	3873.3	3847.4	3837.0	3831.8	3831.8	3816.2	3816.2	3811.0	3816.2	3795.4
5°	3790.3	3811.0	3811.0	3805.9	3774.7	3769.5	3753.9	3743.5	3748.8	3728.0	3743.5
7.5°	3728.0	3743.5	3722.8	3717.6	3707.2	3686.4	3681.2	3634.5	3639.7	3639.7	3650.1
10°	3717.6	3712.3	3681.2	3655.2	3624.1	3618.9	3603.3	3593.0	3593.0	3587.8	3603.3
12.5°	3717.6	3691.7	3686.4	3629.3	3577.4	3598.1	3556.6	3530.7	3567.0	3577.4	3598.1
15°	3712.3	3738.3	3650.1	3624.1	3587.8	3593.0	3556.6	3530.7	3551.5	3561.8	3577.4
17.5°	3743.5	3728.0	3702.0	3650.1	3634.5	3613.7	3567.0	3546.2	3546.2	3572.2	3577.4
20°	3826.6	3785.1	3733.1	3707.2	3722.8	3696.8	3639.7	3561.8	3582.6	3603.3	3618.9
22.5°	3904.5	3873.3	3837.0	3821.4	3909.7	3868.2	3769.5	3681.2	3650.1	3686.4	3712.3
25°	4055.0	4055.0	3987.6	4008.4	4107.0	4112.2	3997.9	3842.2	3821.4	3837.0	3847.4
27.5°	4361.4	4377.0	4319.9	4340.7	4382.2	4418.5	4319.9	4190.0	4143.4	4138.1	4153.7
30°	4693.7	4724.8	4719.7	4807.9	4927.3	4948.1	4802.7	4589.8	4449.6	4423.7	4444.4
32.5°	5129.8	5145.4	5135.1	5238.8	5560.8	5711.3	5332.4	5031.2	4844.2	4891.0	4844.2
35°	5950.2	5934.6	5820.4	5841.2	6106.0	6215.0	5851.5	5659.4	5571.2	5664.6	5643.9
37.5°	6656.3	6599.2	6505.7	6640.8	6916.0	7014.6	6635.6	6298.1	6137.1	6292.9	6360.4
40°	7253.5	7108.0	6978.2	7113.3	7481.9	7616.9	7061.3	6786.1	6723.8	6838.1	6983.4
42.5°	7757.0	7663.6	7492.3	7502.6	7746.7	7809.0	7362.5	7201.5	7139.2	7320.9	7393.7
45°	8115.3	8027.1	7866.1	7855.7	8042.7	8001.1	7601.3	7492.3	7528.6	7648.1	7684.4
47.5°	8297.1	8343.8	8250.3	8276.3	8374.9	8276.3	7959.6	7959.6	7876.5	7949.1	7912.8
50°	8821.4	8676.1	8795.5	8795.5	8899.3	8909.7	8593.0	8478.8	8255.5	8130.9	8130.9
52.5°	9434.1	9444.5	9491.3	9662.6	9839.1	9989.7	9537.9	9049.9	8676.1	8515.1	8494.4
55°	9937.8	10041.6	10228.5	10550.4	11059.2	11267.0	10488.1	9615.8	9158.9	8909.7	8857.8
56°	10212.9	10114.3	10436.2	10877.6	11542.1	11812.1	10643.9	9730.0	9226.4	8946.1	8940.8
57.5°	9948.1	10057.2	10280.5	10976.2	11791.3	12144.5	10701.0	9678.1	8956.5	8670.9	8696.9
60°	7855.7	7959.6	8260.7	9039.5	10316.8	10592.0	9055.1	7980.3	7336.5	6926.3	6931.5
62.5°	4444.4	4522.4	4756.0	5477.7	6272.1	6536.9	5643.9	4927.3	4480.8	4252.3	4179.7
65°	1635.5	1604.4	1640.7	2009.3	2497.4	2720.7	2346.8	1983.4	1749.8	1666.7	1635.5
67.5°	612.7	565.9	529.6	565.9	711.3	752.9	690.5	576.3	540.0	555.6	565.9
70°	379.0	358.3	285.6	270.0	264.8	259.6	275.2	290.7	332.3	389.4	399.8
72.5°	264.8	249.2	202.5	192.1	181.7	176.5	202.5	223.3	259.6	301.2	306.4
75°	103.9	109.0	103.9	114.2	119.4	124.6	145.4	161.0	176.5	176.5	171.3
77.5°	20.8	20.8	31.1	41.5	51.9	67.5	98.6	114.2	119.4	114.2	98.6
80°	0.0	0.0	10.3	20.8	41.5	57.1	88.3	98.6	109.0	98.6	77.9
82.5°	0.0	0.0	10.3	26.0	41.5	51.9	83.1	103.9	119.4	109.0	83.1
85°	0.0	0.0	10.3	20.8	31.1	36.3	36.3	26.0	26.0	15.6	10.3
87.5°	0.0	0.0	0.0	0.0	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)