

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: P533707

Luminaire Tested: **GALN-SA9A-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533707
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-SA9A-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 19771 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 274
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

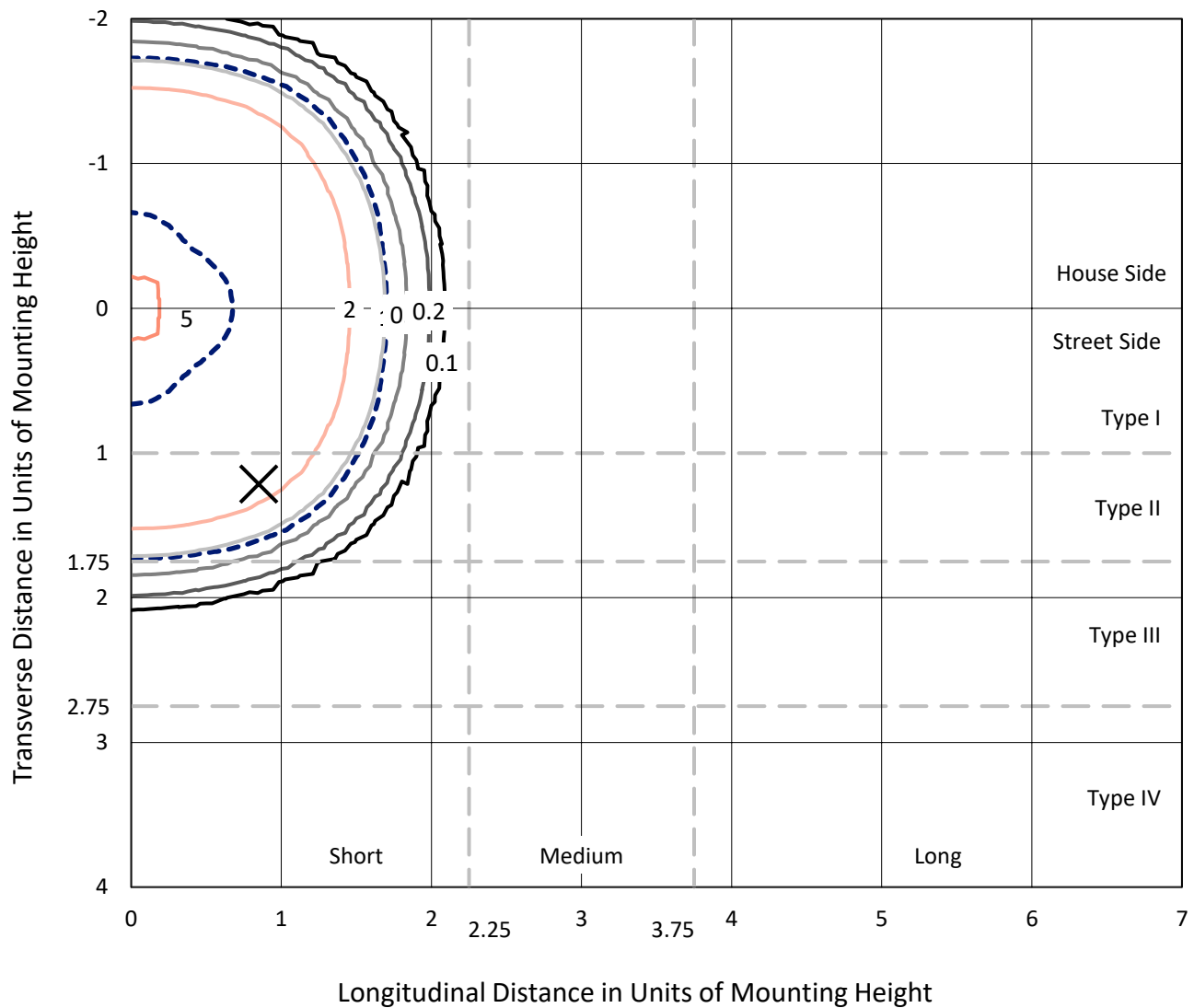


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Iso-Footcandle Lines of Horizontal Illumination

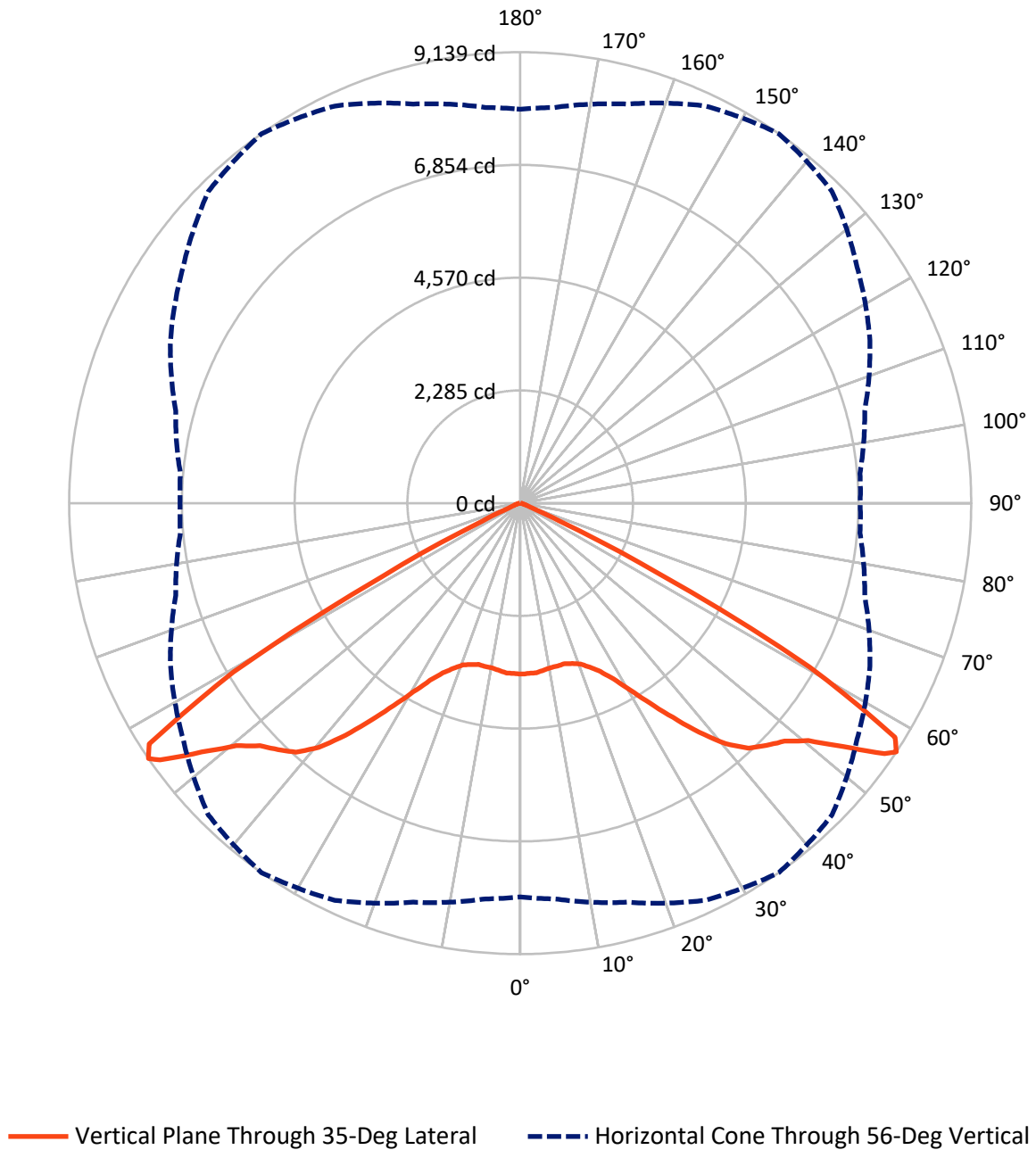
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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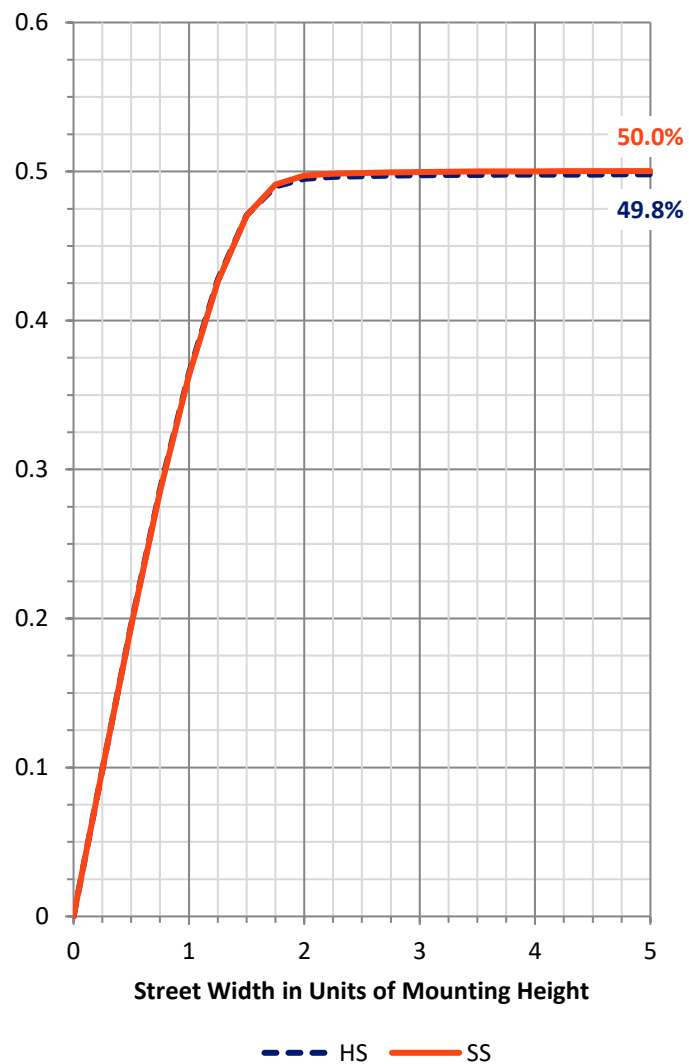
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9885.5	0.0	9885.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9885.5	0.0	9885.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19771.0	0.0	19771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.6	1.6
10°-20°	950.6	4.8
20°-30°	1721.3	8.7
30°-40°	3192.0	16.1
40°-50°	5239.4	26.5
50°-60°	6750.0	34.1
60°-70°	1487.6	7.5
70°-80°	86.3	0.4
80°-90°	18.2	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°	19771.0	100.0
0°-180°	19771.0	100.0

Coefficient of Utilization



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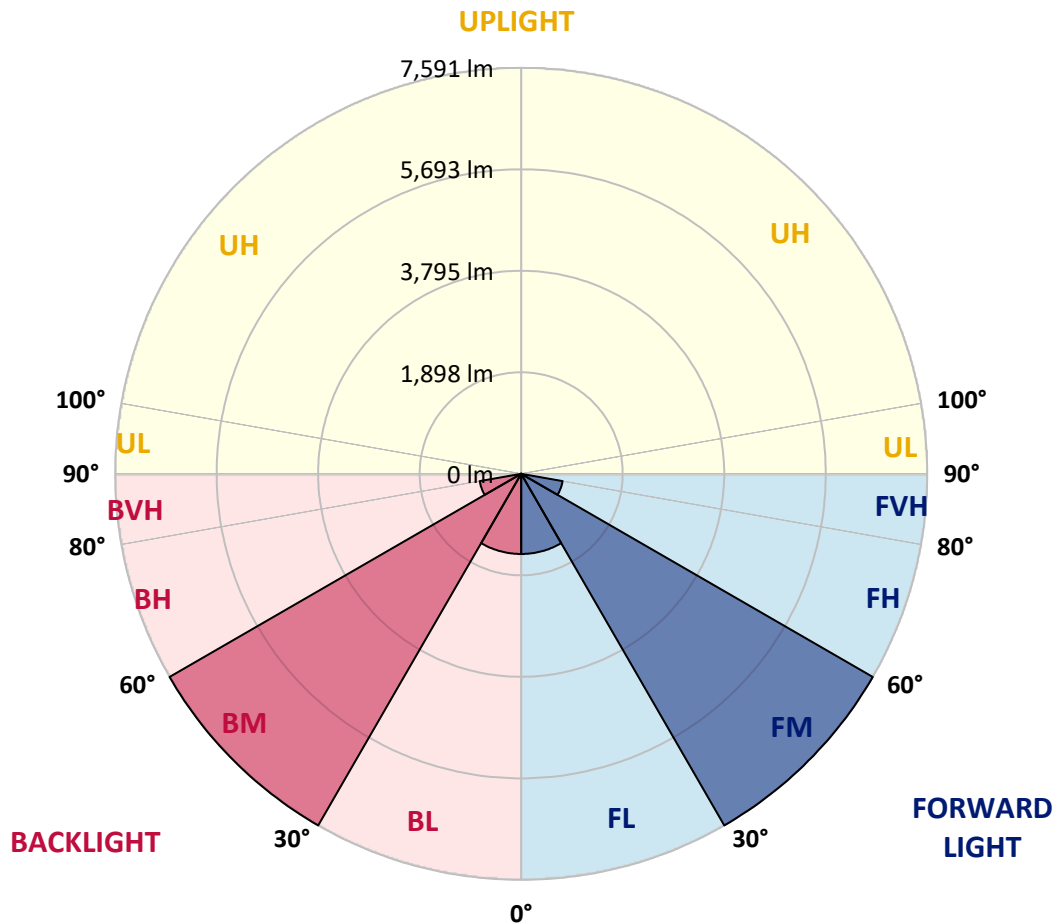
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1498.8	7.6			
FM	(30°-60°)	7590.7	38.4			
FH	(60°-80°)	787.0	4.0			G1/1800
FVH	(80°-90°)	9.1	0.0			G0/10
BL	(0°-30°)	1498.8	7.6	B3/2500		
BM	(30°-60°)	7590.7	38.4	B4/8500		
BH	(60°-80°)	787.0	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°	3464.3	3464.3	3464.3	3464.3	3464.3	3464.3	3464.3	3464.3	3464.3	3464.3	3464.3
2.5°	3471.5	3471.5	3475.1	3478.6	3453.6	3442.8	3446.4	3439.2	3435.6	3446.4	3446.4
5°	3460.7	3460.7	3450.0	3453.6	3453.6	3421.3	3421.3	3428.5	3428.5	3407.0	3399.8
7.5°	3432.1	3424.9	3410.6	3428.5	3417.7	3417.7	3392.7	3374.7	3367.6	3381.9	3367.6
10°	3371.2	3374.7	3389.1	3396.2	3389.1	3410.6	3367.6	3342.5	3317.4	3306.7	3306.7
12.5°	3342.5	3364.0	3342.5	3360.4	3385.5	3367.6	3342.5	3324.6	3288.8	3274.4	3274.4
15°	3338.9	3353.2	3360.4	3385.5	3374.7	3381.9	3331.8	3310.3	3256.5	3231.4	3220.7
17.5°	3335.3	3353.2	3364.0	3410.6	3417.7	3421.3	3381.9	3317.4	3270.8	3245.8	3220.7
20°	3374.7	3381.9	3403.4	3450.0	3478.6	3528.8	3457.1	3389.1	3288.8	3260.1	3249.4
22.5°	3424.9	3460.7	3482.2	3532.4	3607.6	3650.6	3557.5	3471.5	3367.6	3331.8	3288.8
25°	3586.1	3578.9	3614.8	3718.7	3779.6	3811.8	3736.6	3611.2	3475.1	3432.1	3439.2
27.5°	3786.7	3793.9	3826.1	3940.8	4030.3	4080.5	3990.9	3826.1	3693.6	3621.9	3614.8
30°	4048.3	4041.1	4076.9	4231.0	4392.2	4467.4	4309.8	4116.3	3987.4	3894.2	3915.7
32.5°	4324.1	4327.7	4428.0	4567.7	4829.2	4976.1	4721.8	4485.3	4291.9	4227.4	4195.1
35°	4732.5	4750.4	4829.2	5044.2	5334.4	5524.3	5244.8	4961.8	4739.7	4621.5	4635.8
37.5°	5237.7	5219.7	5352.3	5585.2	5889.7	6029.4	5792.9	5470.5	5244.8	5166.0	5216.2
40°	5775.0	5792.9	5861.0	6072.4	6412.7	6505.9	6154.8	5979.2	5782.2	5742.8	5803.7
42.5°	6312.4	6301.7	6351.8	6541.7	6788.9	6724.4	6516.6	6412.7	6273.0	6194.2	6276.6
45°	6706.5	6688.6	6781.7	6910.7	7000.3	6878.5	6785.3	6749.5	6677.8	6591.9	6667.1
47.5°	7089.8	7075.5	7165.1	7200.9	7208.0	7046.8	7064.7	7129.2	6950.1	6771.0	6857.0
50°	7415.8	7390.8	7501.8	7580.6	7562.7	7304.8	7369.3	7304.8	7025.3	6814.0	6781.7
52.5°	7960.4	7971.1	8089.3	8232.6	8189.7	7974.7	7881.6	7587.8	7229.5	7039.7	6928.6
55°	8304.3	8250.6	8454.8	8909.7	8959.9	8737.8	8325.8	7892.3	7354.9	7122.1	7093.4
56°	7981.9	8049.9	8372.4	8881.1	9139.0	8934.8	8336.5	7817.1	7226.0	6910.7	6889.2
57.5°	7161.5	7125.6	7562.7	8257.7	8959.9	8873.9	8042.8	7279.7	6591.9	6237.2	6194.2
60°	4456.7	4560.6	4943.9	5803.7	6742.3	6785.3	5961.3	5305.7	4503.2	4188.0	4263.2
62.5°	1744.7	1655.1	1895.2	2536.4	3181.3	3324.6	3012.9	2504.2	2056.4	1744.7	1723.2
65°	404.8	394.1	444.2	612.6	856.2	992.4	942.2	677.1	498.0	472.9	437.1
67.5°	229.3	229.3	218.5	218.5	240.0	254.4	243.6	240.0	250.8	261.5	257.9
70°	161.2	157.6	150.5	154.0	146.9	146.9	157.6	175.5	189.9	189.9	193.5
72.5°	96.7	96.7	96.7	107.5	107.5	107.5	118.2	132.6	136.1	132.6	129.0
75°	43.0	43.0	50.2	60.9	68.1	71.7	82.4	89.6	96.7	89.6	82.4
77.5°	10.7	10.7	17.9	25.1	32.2	39.4	53.7	64.5	68.1	64.5	53.7
80°	3.6	3.6	7.2	17.9	32.2	39.4	53.7	57.3	60.9	53.7	43.0
82.5°	3.6	3.6	7.2	17.9	25.1	32.2	43.0	50.2	53.7	46.6	43.0
85°	0.0	3.6	7.2	14.3	21.5	28.7	28.7	21.5	17.9	10.7	14.3
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)