

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: P648628

Luminaire Tested: **GALN-SA9B-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648628
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-SA9B-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA 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: 24240.1 lumens
Efficiency: N/A
Efficacy: 66.6 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

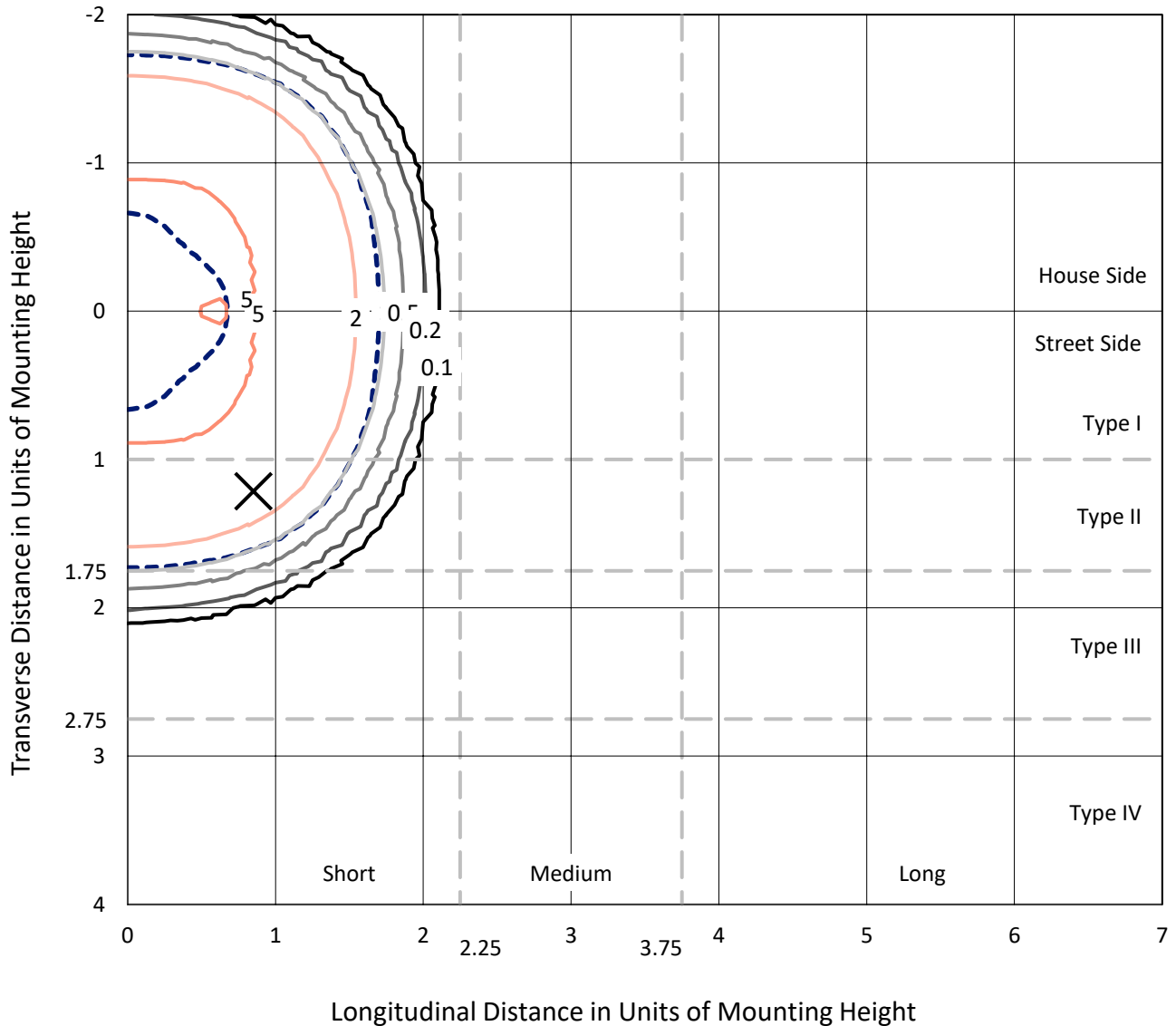
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

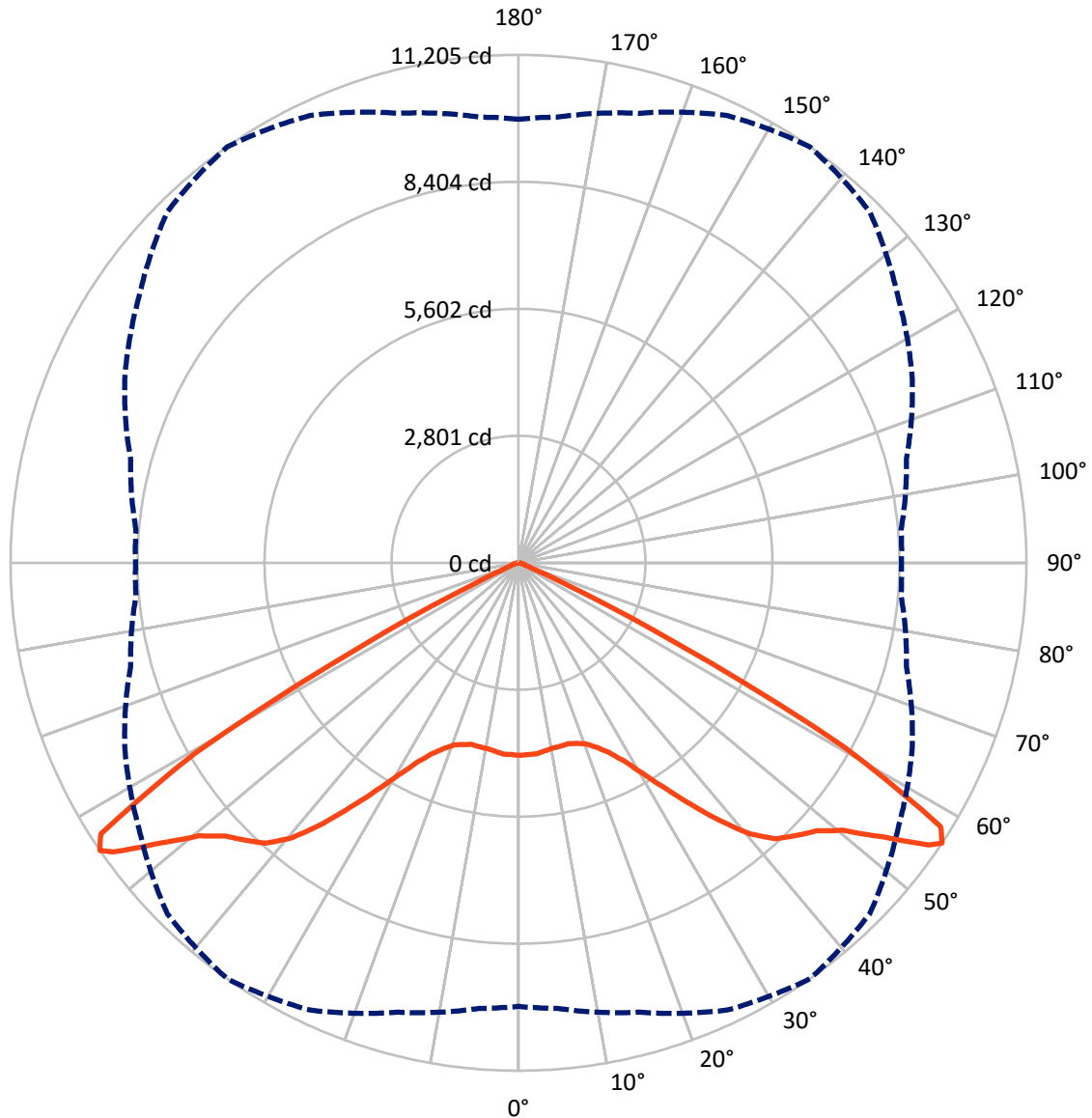
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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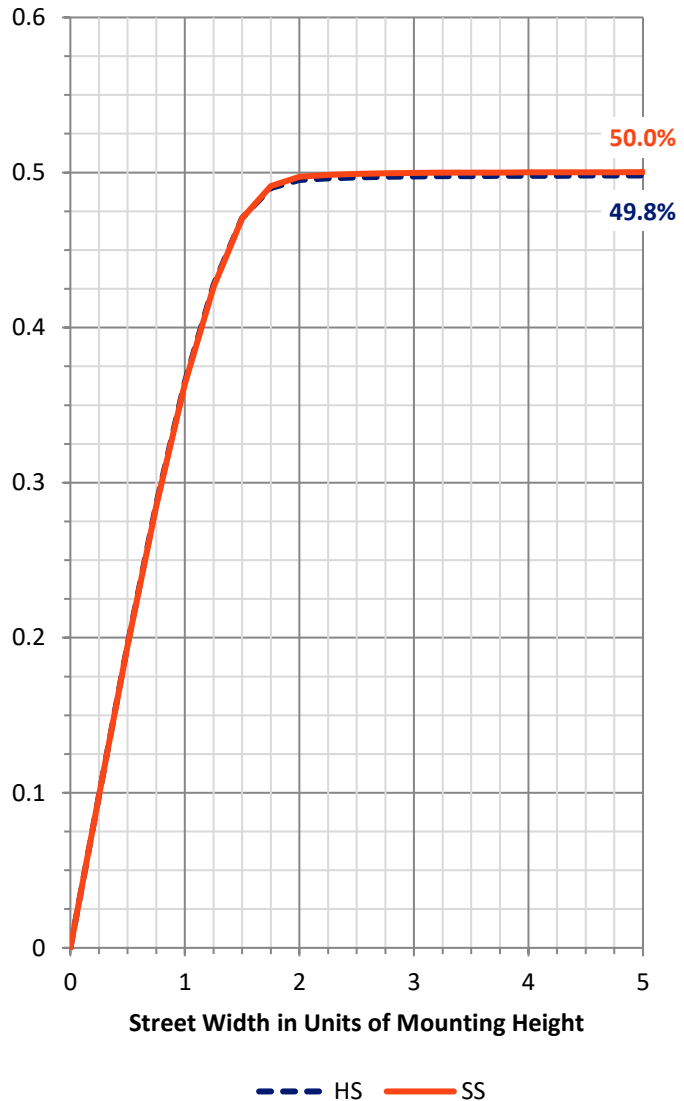
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12120.1	0.0	12120.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12120.1	0.0	12120.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	24240.1	0.0	24240.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.2	1.6
10°-20°	1165.4	4.8
20°-30°	2110.4	8.7
30°-40°	3913.5	16.1
40°-50°	6423.8	26.5
50°-60°	8275.7	34.1
60°-70°	1823.9	7.5
70°-80°	105.8	0.4
80°-90°	22.3	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°	24240.1	100.0
0°-180°	24240.1	100.0

Coefficient of Utilization



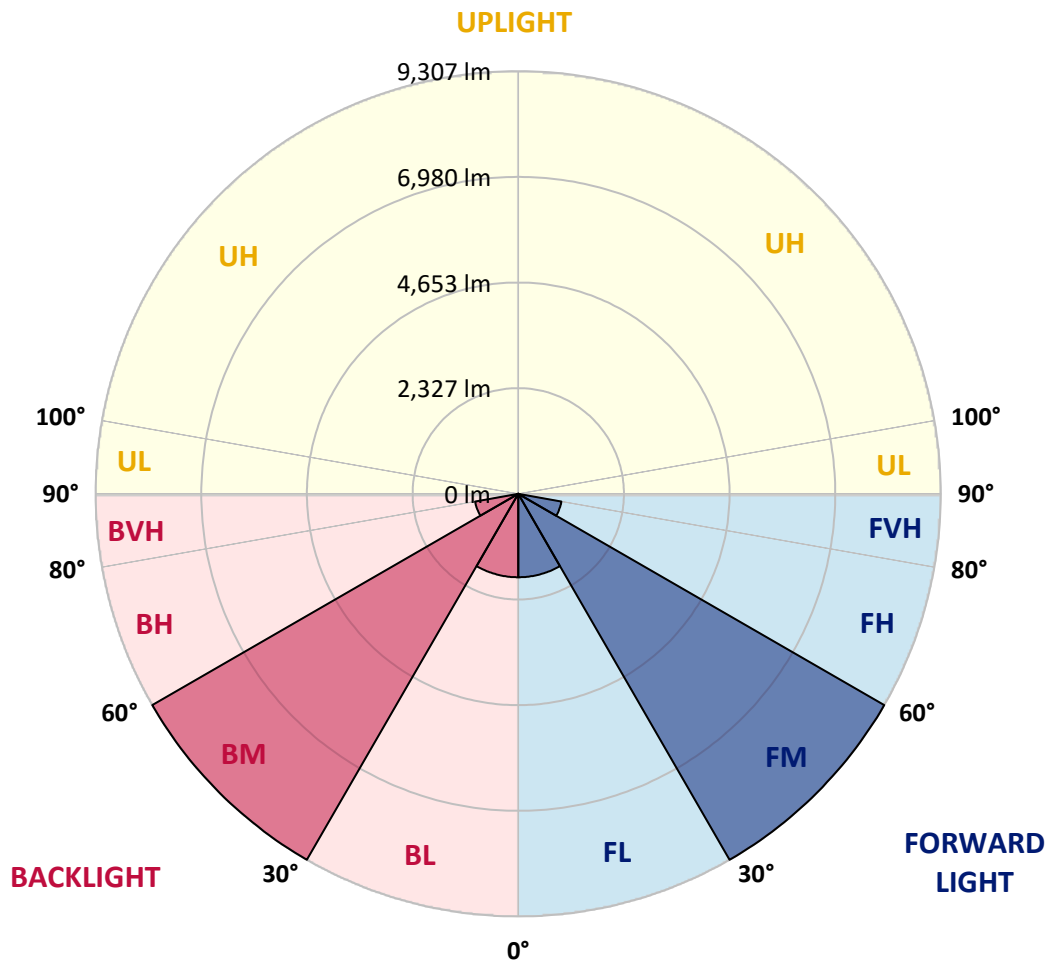
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1837.5	7.6			
FM (30°-60°)	9306.5	38.4			
FH (60°-80°)	964.9	4.0			G1/1800
FVH (80°-90°)	11.1	0.0			G1/100
BL (0°-30°)	1837.5	7.6	B3/2500		
BM (30°-60°)	9306.5	38.4	B5		
BH (60°-80°)	964.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	11.1	0.0			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°	4247.4	4247.4	4247.4	4247.4	4247.4	4247.4	4247.4	4247.4	4247.4	4247.4	4247.4
2.5°	4256.2	4256.2	4260.5	4264.9	4234.2	4221.0	4225.5	4216.6	4212.2	4225.5	4225.5
5°	4243.0	4243.0	4229.8	4234.2	4234.2	4194.7	4194.7	4203.5	4203.5	4177.1	4168.3
7.5°	4207.8	4199.1	4181.5	4203.5	4190.3	4190.3	4159.5	4137.6	4128.8	4146.4	4128.8
10°	4133.2	4137.6	4155.1	4163.9	4155.1	4181.5	4128.8	4098.1	4067.3	4054.1	4054.1
12.5°	4098.1	4124.4	4098.1	4120.0	4150.8	4128.8	4098.1	4076.1	4032.1	4014.6	4014.6
15°	4093.7	4111.2	4120.0	4150.8	4137.6	4146.4	4084.9	4058.5	3992.6	3961.9	3948.7
17.5°	4089.3	4111.2	4124.4	4181.5	4190.3	4194.7	4146.4	4067.3	4010.2	3979.4	3948.7
20°	4137.6	4146.4	4172.7	4229.8	4264.9	4326.5	4238.6	4155.1	4032.1	3997.1	3983.8
22.5°	4199.1	4243.0	4269.4	4330.9	4423.1	4475.8	4361.6	4256.2	4128.8	4084.9	4032.1
25°	4396.7	4387.9	4431.9	4559.3	4634.0	4673.4	4581.2	4427.5	4260.5	4207.8	4216.6
27.5°	4642.7	4651.5	4691.0	4831.6	4941.4	5002.9	4893.0	4691.0	4528.5	4440.6	4431.9
30°	4963.4	4954.6	4998.5	5187.4	5385.0	5477.2	5284.0	5046.8	4888.7	4774.5	4800.8
32.5°	5301.5	5305.9	5428.9	5600.3	5920.9	6101.0	5789.1	5499.2	5262.0	5183.0	5143.4
35°	5802.3	5824.3	5920.9	6184.4	6540.2	6773.0	6430.4	6083.4	5811.0	5666.1	5683.7
37.5°	6421.6	6399.6	6562.2	6847.6	7221.0	7392.3	7102.4	6707.1	6430.4	6333.8	6395.2
40°	7080.4	7102.4	7185.8	7445.0	7862.3	7976.5	7546.0	7330.8	7089.2	7040.9	7115.6
42.5°	7739.3	7726.1	7787.6	8020.4	8323.4	8244.4	7989.7	7862.3	7691.0	7594.3	7695.4
45°	8222.4	8200.5	8314.7	8472.8	8582.6	8433.3	8319.1	8275.1	8187.3	8081.9	8174.1
47.5°	8692.4	8674.9	8784.7	8828.6	8837.4	8639.7	8661.7	8740.8	8521.2	8301.5	8406.9
50°	9092.1	9061.4	9197.6	9294.2	9272.2	8956.0	9035.0	8956.0	8613.4	8354.2	8314.7
52.5°	9759.8	9772.9	9917.9	10093.6	10040.9	9777.3	9663.2	9303.0	8863.7	8630.9	8494.8
55°	10181.4	10115.6	10365.9	10923.7	10985.3	10712.9	10207.8	9676.3	9017.5	8731.9	8696.9
56°	9786.1	9869.6	10264.9	10888.6	11204.9	10954.5	10221.0	9584.1	8859.3	8472.8	8446.5
57.5°	8780.2	8736.3	9272.2	10124.3	10985.3	10879.8	9860.8	8925.3	8081.9	7647.1	7594.3
60°	5464.1	5591.5	6061.4	7115.6	8266.4	8319.1	7308.8	6505.1	5521.2	5134.7	5226.9
62.5°	2139.1	2029.2	2323.6	3109.8	3900.4	4076.1	3694.0	3070.2	2521.2	2139.1	2112.7
65°	496.3	483.2	544.7	751.1	1049.8	1216.7	1155.2	830.1	610.5	579.8	535.9
67.5°	281.1	281.1	267.9	267.9	294.3	311.9	298.7	294.3	307.5	320.6	316.3
70°	197.6	193.2	184.5	188.9	180.1	180.1	193.2	215.2	232.8	232.8	237.2
72.5°	118.6	118.6	118.6	131.8	131.8	131.8	144.9	162.6	166.9	162.6	158.1
75°	52.7	52.7	61.5	74.7	83.5	87.9	101.0	109.8	118.6	109.8	101.0
77.5°	13.2	13.2	21.9	30.8	39.5	48.3	65.9	79.1	83.5	79.1	65.9
80°	4.4	4.4	8.8	21.9	39.5	48.3	65.9	70.3	74.7	65.9	52.7
82.5°	4.4	4.4	8.8	21.9	30.8	39.5	52.7	61.5	65.9	57.1	52.7
85°	0.0	4.4	8.8	17.5	26.4	35.2	35.2	26.4	21.9	13.2	17.5
87.5°	0.0	0.0	4.4	4.4	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)