

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: P534049

Luminaire Tested: **GALN-SA9C-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534049
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-SA9C-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 30969 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

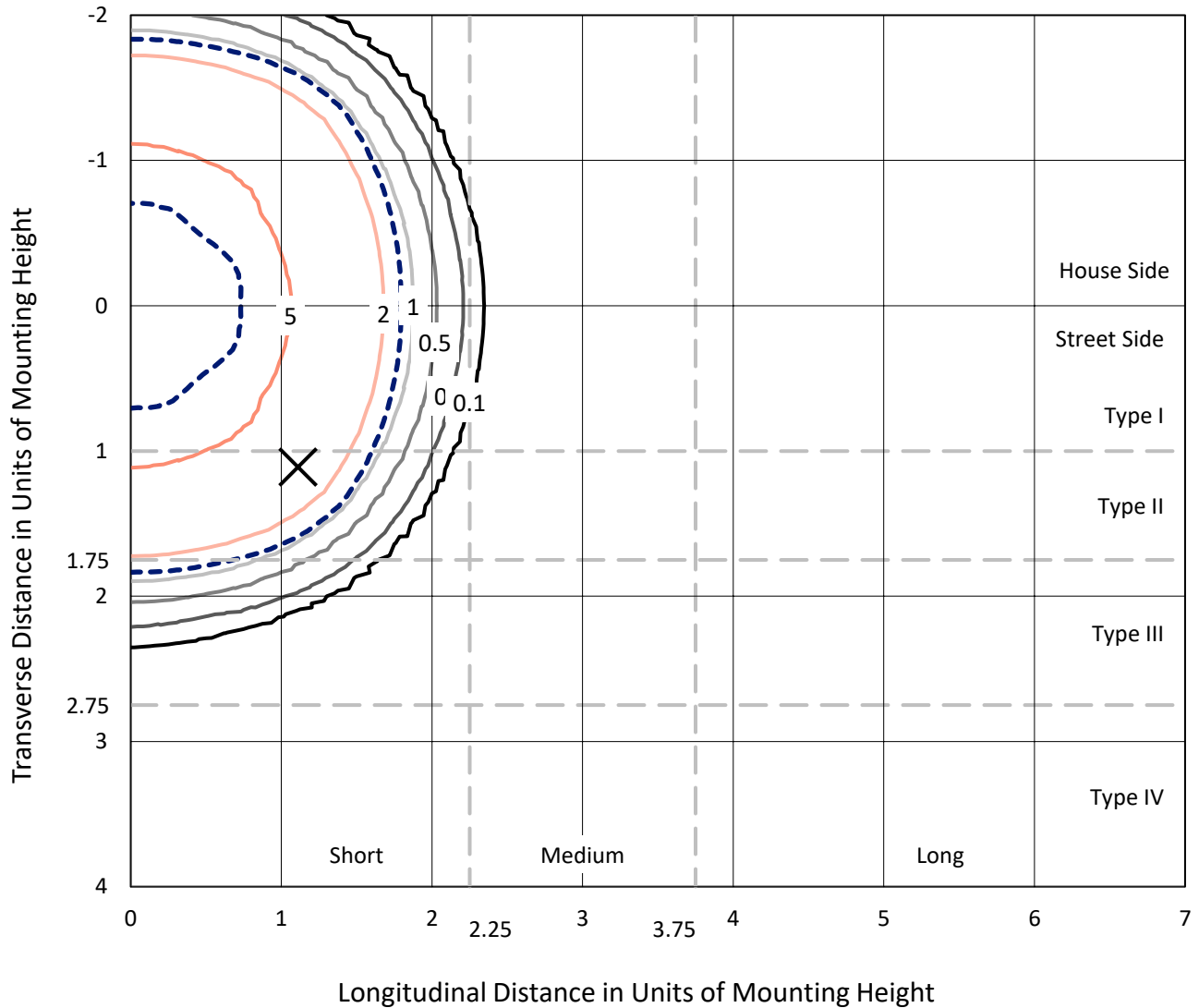
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

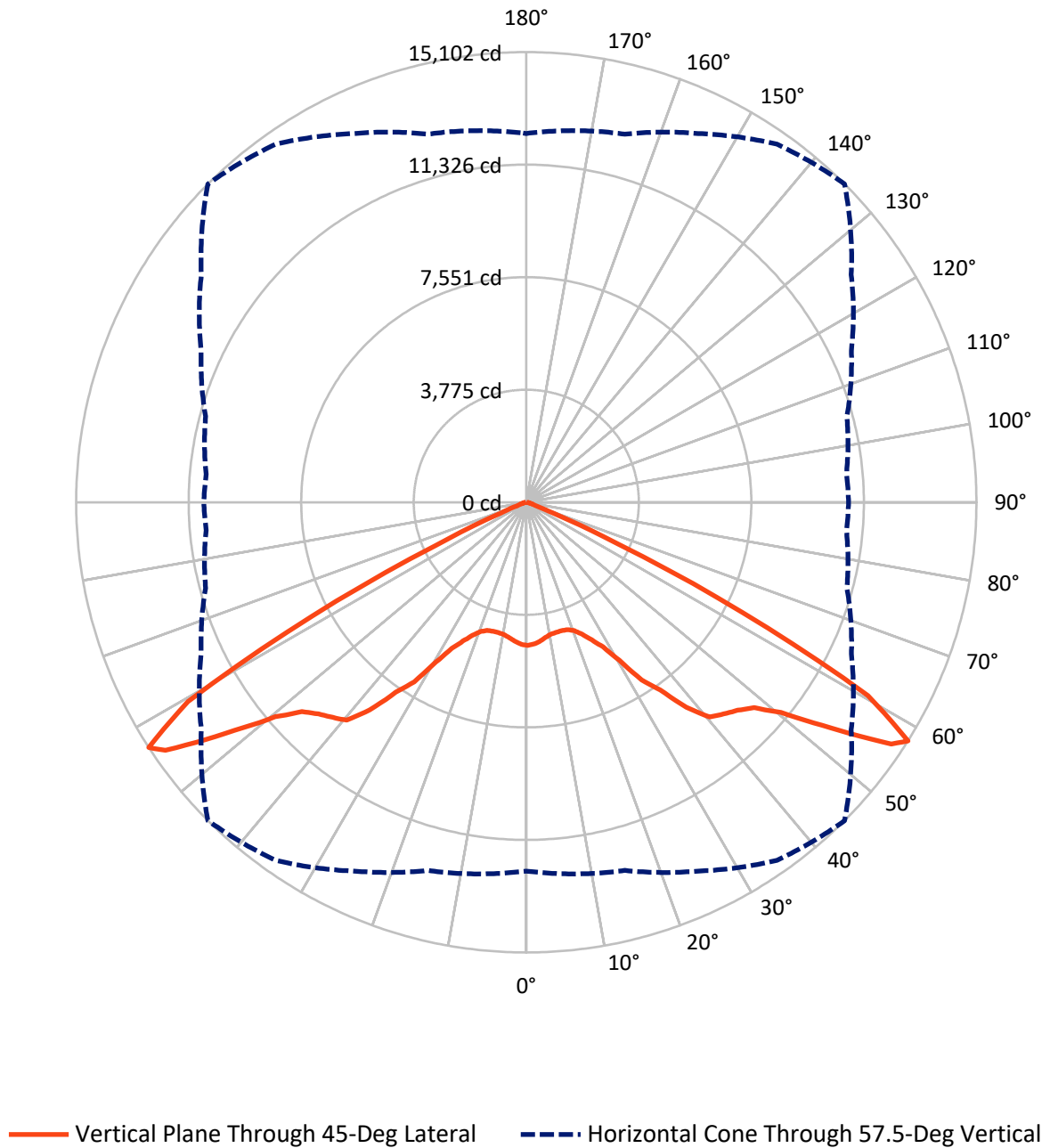
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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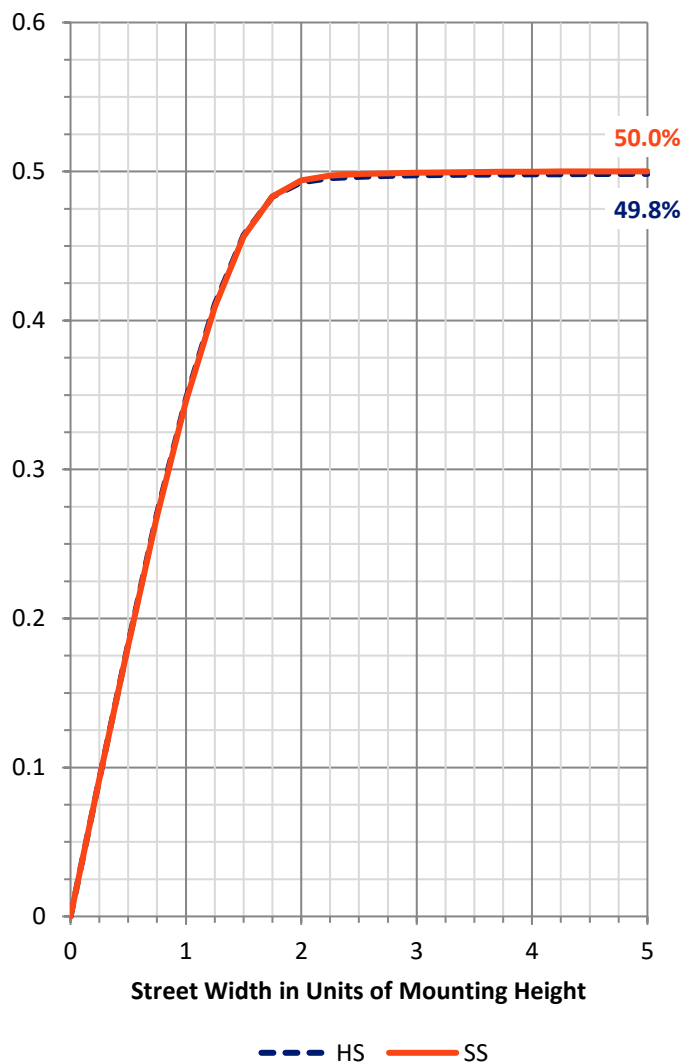
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15484.5	0.0	15484.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15484.5	0.0	15484.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30969.0	0.0	30969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.4	1.4
10°-20°	1275.9	4.1
20°-30°	2355.2	7.6
30°-40°	4631.8	15.0
40°-50°	7543.9	24.4
50°-60°	10758.5	34.7
60°-70°	3724.9	12.0
70°-80°	199.8	0.6
80°-90°	37.5	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°	30969.0	100.0
0°-180°	30969.0	100.0

Coefficient of Utilization



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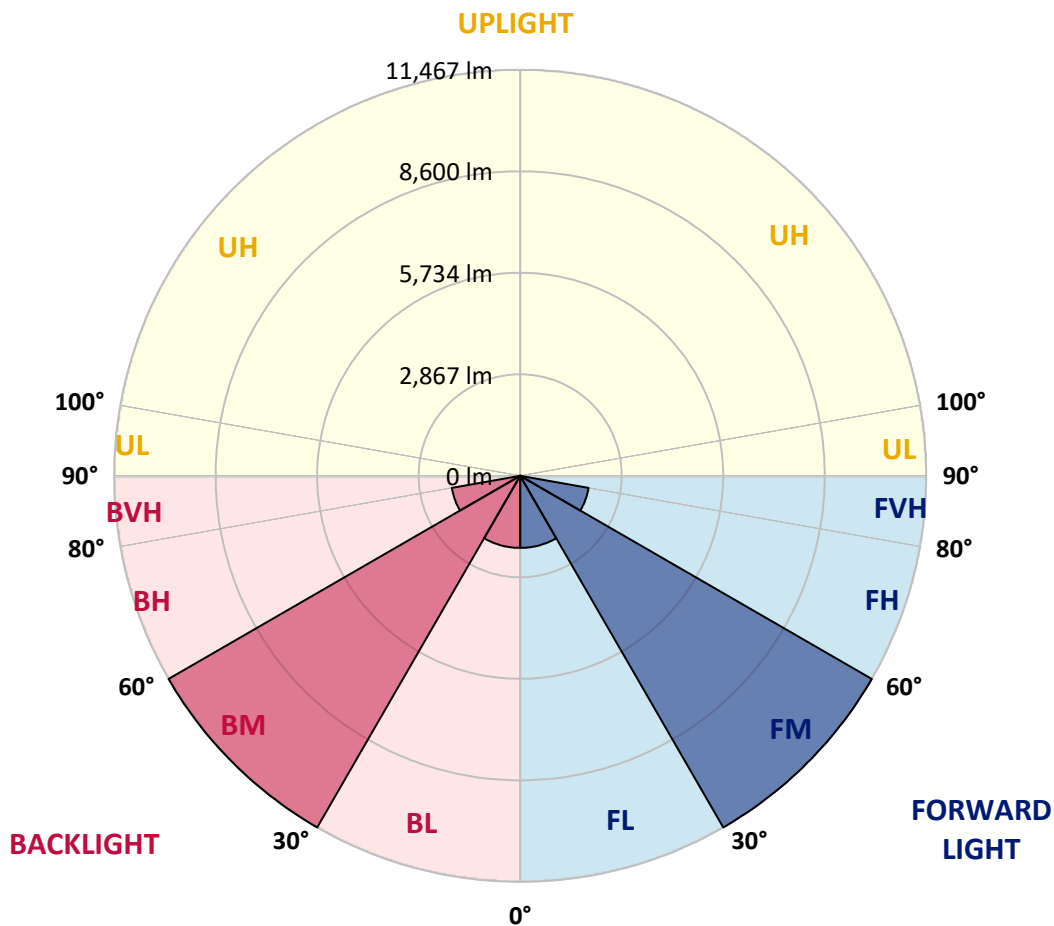
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2036.3	6.6			
FM (30°-60°)	11467.1	37.0			
FH (60°-80°)	1962.3	6.3			G2/5000
FVH (80°-90°)	18.8	0.1			G1/100
BL (0°-30°)	2036.3	6.6	B3/2500		
BM (30°-60°)	11467.1	37.0	B5		
BH (60°-80°)	1962.3	6.3	B3/2500		G2/5000
BVH (80°-90°)	18.8	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4803.6	4803.6	4803.6	4803.6	4803.6	4803.6	4803.6	4803.6	4803.6	4803.6	4803.6
2.5°	4790.7	4816.5	4784.2	4771.3	4764.9	4764.9	4745.5	4745.5	4739.1	4745.5	4719.7
5°	4713.2	4739.1	4739.1	4732.6	4693.9	4687.4	4668.0	4655.1	4661.6	4635.7	4655.1
7.5°	4635.7	4655.1	4629.3	4622.8	4609.9	4584.1	4577.6	4519.5	4526.0	4526.0	4538.9
10°	4622.8	4616.4	4577.6	4545.4	4506.6	4500.2	4480.8	4467.9	4467.9	4461.4	4480.8
12.5°	4622.8	4590.6	4584.1	4513.1	4448.5	4474.3	4422.7	4390.4	4435.6	4448.5	4474.3
15°	4616.4	4648.7	4538.9	4506.6	4461.4	4467.9	4422.7	4390.4	4416.2	4429.1	4448.5
17.5°	4655.1	4635.7	4603.5	4538.9	4519.5	4493.7	4435.6	4409.8	4409.8	4442.1	4448.5
20°	4758.4	4706.8	4642.2	4609.9	4629.3	4597.0	4526.0	4429.1	4455.0	4480.8	4500.2
22.5°	4855.3	4816.5	4771.3	4752.0	4861.7	4810.1	4687.4	4577.6	4538.9	4584.1	4616.4
25°	5042.5	5042.5	4958.6	4984.4	5107.1	5113.5	4971.5	4777.8	4752.0	4771.3	4784.2
27.5°	5423.4	5442.8	5371.8	5397.6	5449.3	5494.5	5371.8	5210.4	5152.3	5145.8	5165.2
30°	5836.7	5875.4	5868.9	5978.7	6127.2	6153.0	5972.2	5707.5	5533.2	5500.9	5526.7
32.5°	6379.0	6398.4	6385.5	6514.6	6914.9	7102.1	6630.8	6256.3	6023.9	6082.0	6023.9
35°	7399.1	7379.7	7237.7	7263.5	7592.8	7728.4	7276.4	7037.6	6927.8	7044.0	7018.2
37.5°	8277.2	8206.2	8090.0	8257.8	8600.0	8722.7	8251.4	7831.7	7631.6	7825.2	7909.2
40°	9019.7	8838.9	8677.5	8845.4	9303.8	9471.6	8780.8	8438.6	8361.1	8503.2	8684.0
42.5°	9646.0	9529.8	9316.7	9329.6	9633.1	9710.5	9155.3	8955.1	8877.7	9103.6	9194.0
45°	10091.5	9981.7	9781.6	9768.6	10001.1	9949.4	9452.3	9316.7	9361.9	9510.4	9555.6
47.5°	10317.4	10375.6	10259.3	10291.6	10414.3	10291.6	9897.8	9897.8	9794.5	9884.9	9839.7
50°	10969.5	10788.8	10937.3	10937.3	11066.4	11079.3	10685.5	10543.4	10265.8	10110.8	10110.8
52.5°	11731.4	11744.3	11802.4	12015.5	12235.0	12422.3	11860.5	11253.6	10788.8	10588.6	10562.8
55°	12357.7	12486.8	12719.3	13119.6	13752.3	14010.5	13042.1	11957.4	11389.2	11079.3	11014.7
56°	12699.9	12577.2	12977.5	13526.3	14352.7	14688.5	13235.8	12099.4	11473.2	11124.5	11118.0
57.5°	12370.6	12506.2	12783.8	13649.0	14662.7	15101.7	13306.8	12034.9	11137.4	10782.3	10814.6
60°	9768.6	9897.8	10272.2	11240.7	12829.0	13171.2	11260.1	9923.6	9123.0	8612.9	8619.4
62.5°	5526.7	5623.6	5914.1	6811.6	7799.4	8128.7	7018.2	6127.2	5571.9	5287.9	5197.5
65°	2033.8	1995.1	2040.2	2498.7	3105.6	3383.2	2918.3	2466.4	2175.8	2072.5	2033.8
67.5°	761.9	703.8	658.6	703.8	884.5	936.2	858.7	716.7	671.5	690.8	703.8
70°	471.3	445.5	355.1	335.7	329.3	322.8	342.2	361.6	413.2	484.2	497.1
72.5°	329.3	309.9	251.8	238.9	226.0	219.5	251.8	277.6	322.8	374.5	380.9
75°	129.1	135.6	129.1	142.0	148.5	155.0	180.8	200.2	219.5	219.5	213.1
77.5°	25.8	25.8	38.7	51.7	64.6	83.9	122.7	142.0	148.5	142.0	122.7
80°	0.0	0.0	12.9	25.8	51.7	71.0	109.8	122.7	135.6	122.7	96.8
82.5°	0.0	0.0	12.9	32.3	51.7	64.6	103.3	129.1	148.5	135.6	103.3
85°	0.0	0.0	12.9	25.8	38.7	45.2	45.2	32.3	32.3	19.4	12.9
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)