

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: P533189

Luminaire Tested: **GALN-SA8C-760-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-760-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39000 lumens
Efficiency: N/A
Efficacy: 90.9 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

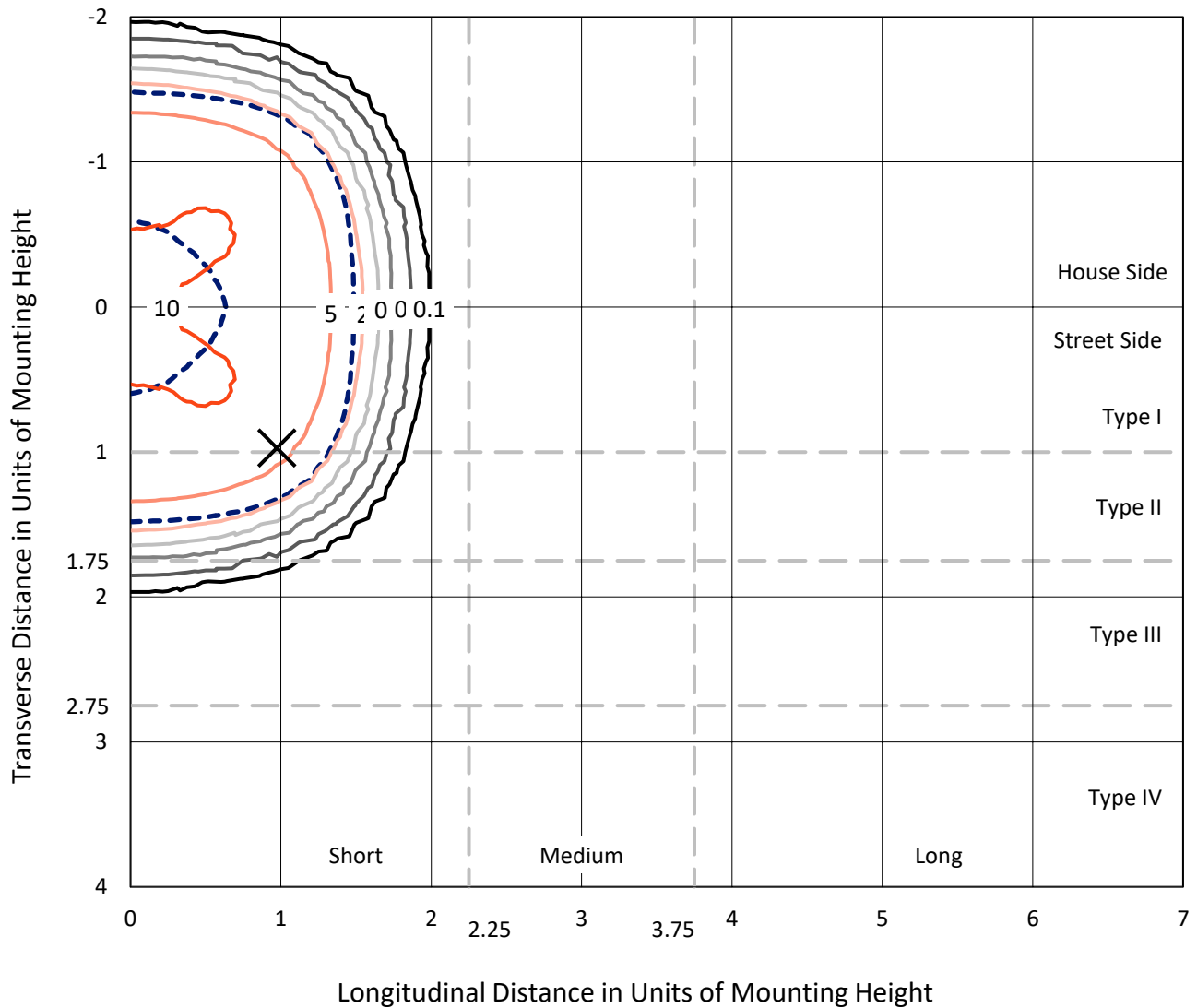
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

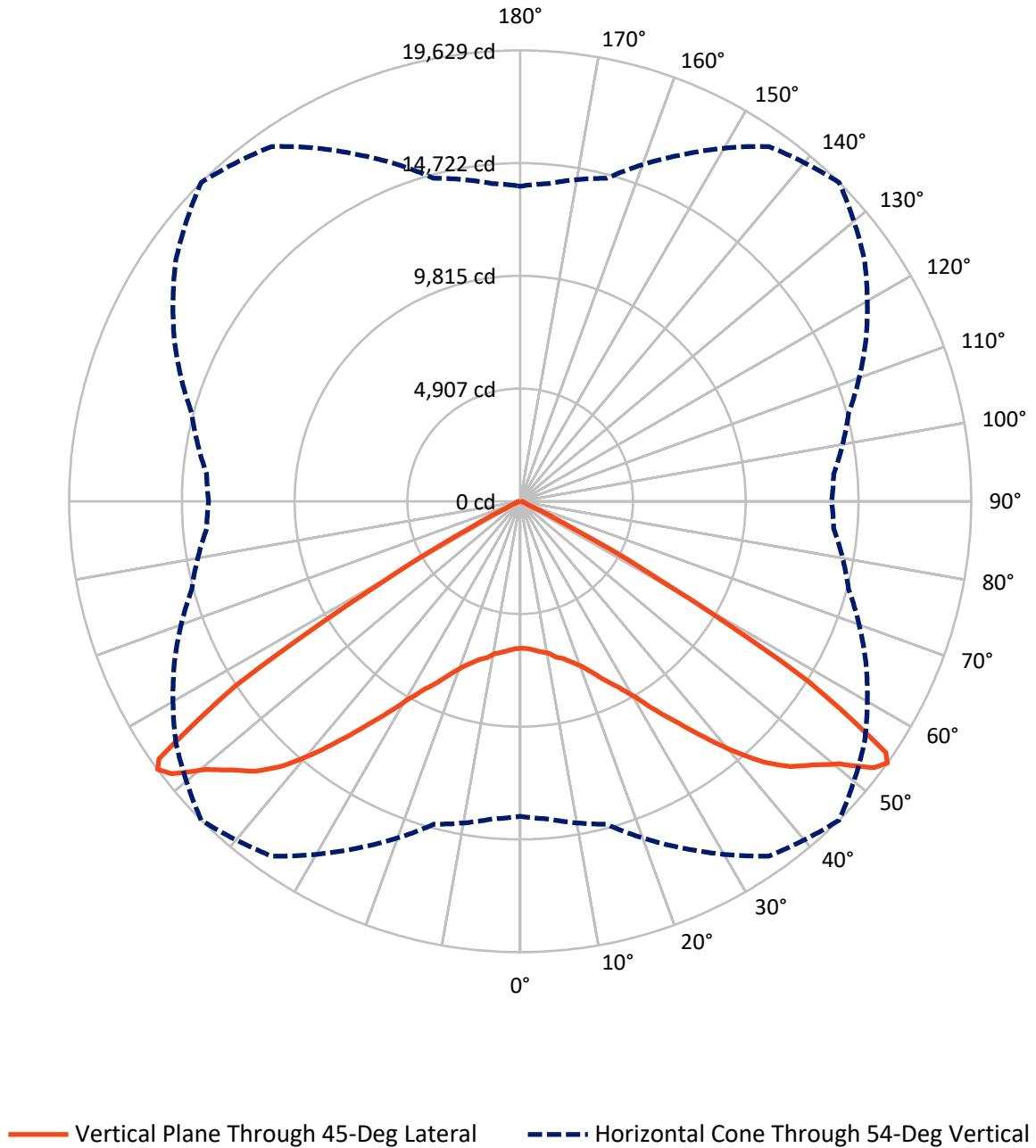
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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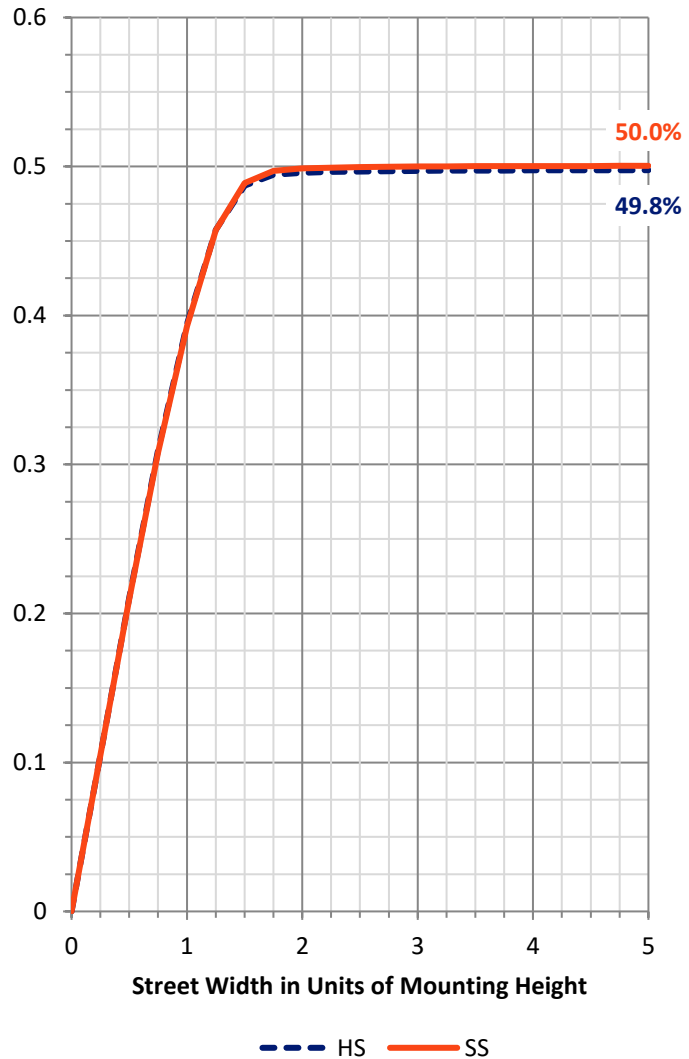
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19500.0	0.0	19500.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19500.0	0.0	19500.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	39000.0	0.0	39000.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.9	1.6
10°-20°	2026.9	5.2
20°-30°	3972.6	10.2
30°-40°	7143.5	18.3
40°-50°	12228.4	31.4
50°-60°	11832.1	30.3
60°-70°	1012.9	2.6
70°-80°	120.0	0.3
80°-90°	37.7	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°	39000.0	100.0
0°-180°	39000.0	100.0



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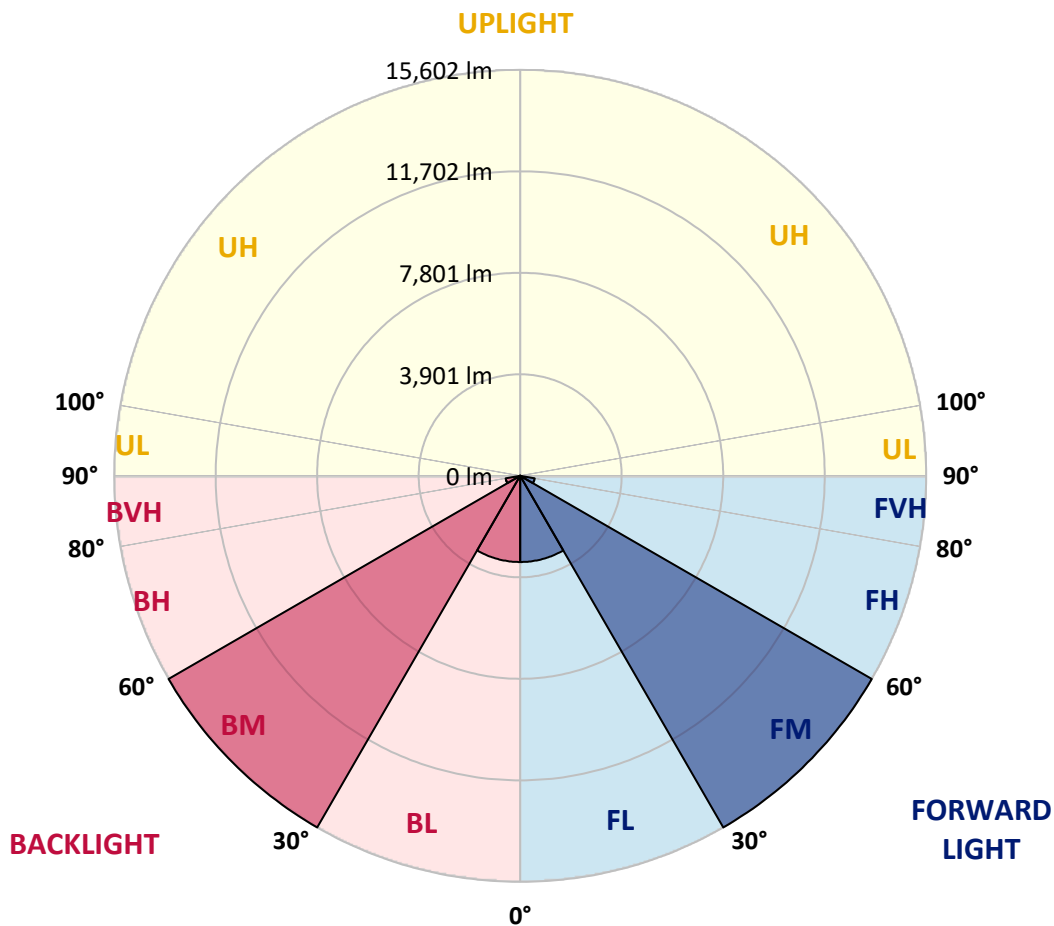
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3312.7	8.5			
FM (30°-60°)	15602.0	40.0			
FH (60°-80°)	566.5	1.5			G0/660
FVH (80°-90°)	18.8	0.0			G1/100
BL (0°-30°)	3312.7	8.5	B4/5000		
BM (30°-60°)	15602.0	40.0	B5		
BH (60°-80°)	566.5	1.5	B2/1000		G0/660
BVH (80°-90°)	18.8	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°	6394.8	6394.8	6394.8	6394.8	6394.8	6394.8	6394.8	6394.8	6394.8	6394.8	6394.8
2.5°	6425.7	6462.7	6438.0	6456.6	6456.6	6425.7	6444.2	6370.1	6419.5	6382.4	6388.6
5°	6524.5	6518.4	6518.4	6524.5	6499.8	6512.2	6487.5	6462.7	6444.2	6419.5	6493.6
7.5°	6648.1	6648.1	6604.9	6617.2	6604.9	6623.4	6574.0	6524.5	6506.0	6487.5	6475.1
10°	6765.5	6753.1	6734.6	6790.2	6747.0	6722.2	6697.5	6666.6	6598.7	6574.0	6549.2
12.5°	6938.5	6932.3	6907.6	6963.2	6938.5	6963.2	6870.5	6790.2	6777.9	6697.5	6740.8
15°	7142.4	7198.0	7154.7	7154.7	7142.4	7111.5	7074.4	7037.4	6926.1	6895.2	6901.4
17.5°	7408.1	7389.5	7395.7	7395.7	7457.5	7377.2	7303.0	7210.4	7154.7	7136.2	7074.4
20°	7661.4	7686.1	7679.9	7723.2	7760.2	7673.7	7593.4	7581.1	7426.6	7451.3	7364.8
22.5°	8106.2	8087.7	8118.6	8149.5	8124.8	8112.4	8038.3	7945.6	7809.7	7747.9	7735.5
25°	8575.8	8544.9	8489.3	8563.5	8600.5	8656.1	8514.0	8464.6	8254.5	8161.8	8168.0
27.5°	8977.4	9020.7	9082.4	9113.3	9206.0	9187.5	9088.6	8928.0	8767.3	8662.3	8594.3
30°	9527.3	9552.0	9657.1	9700.3	9860.9	9904.2	9749.7	9564.4	9280.2	9144.2	9063.9
32.5°	10033.9	10206.9	10200.8	10417.0	10676.5	10855.7	10577.7	10293.4	10009.2	9848.6	9706.5
35°	10855.7	10824.8	11004.0	11232.6	11652.7	11856.6	11553.9	11226.4	10793.9	10534.4	10423.2
37.5°	11621.8	11634.2	11875.1	12239.7	12721.6	13036.7	12771.0	12233.5	11788.6	11455.0	11300.5
40°	12734.0	12758.7	13005.8	13419.8	13963.5	14303.3	13994.4	13450.7	12857.5	12598.0	12598.0
42.5°	14037.6	14142.7	14303.3	14661.7	15149.8	15526.7	15248.6	14822.3	14223.0	13889.3	13938.8
45°	15378.4	15427.8	15532.8	16064.2	16292.8	16478.2	16218.7	16020.9	15619.3	15211.6	15143.6
47.5°	16632.6	16651.2	16960.1	17126.9	17306.1	17151.6	17318.4	17058.9	16607.9	16212.5	16132.2
50°	17188.7	17157.8	17596.5	18103.1	18239.0	17967.2	17825.1	17652.1	16966.3	16490.5	16280.4
52.5°	15569.9	15749.1	16564.7	17973.4	19036.1	19264.7	18436.8	17639.7	16360.8	15434.0	15291.9
54°	13716.4	13883.2	14556.6	16645.0	18856.9	19629.2	18294.6	16601.7	14797.6	13697.8	13555.7
55°	11881.3	11696.0	12919.3	15050.9	18016.6	19307.9	17732.4	15261.0	13197.4	12190.3	11992.5
57.5°	6431.9	6462.7	7494.6	9508.8	12659.8	14803.8	13073.8	10324.3	7797.3	6666.6	6567.8
60°	2038.9	2088.3	2539.4	3843.0	6048.8	7222.7	6190.9	4145.8	2866.8	2298.4	2205.7
62.5°	636.4	661.1	722.9	1075.1	1655.8	2366.4	1853.6	1112.1	827.9	760.0	772.3
65°	389.2	389.2	395.4	420.1	494.3	574.6	556.1	488.1	469.6	457.2	451.0
67.5°	253.3	247.1	259.5	278.0	290.4	296.6	315.1	333.6	327.5	315.1	315.1
70°	154.5	148.3	160.6	185.4	191.5	203.9	222.4	247.1	241.0	228.6	234.8
72.5°	86.5	86.5	92.7	111.2	129.7	142.1	160.6	179.2	185.4	179.2	179.2
75°	30.9	37.1	49.4	68.0	80.3	98.9	117.4	135.9	154.5	142.1	135.9
77.5°	12.4	12.4	24.7	43.2	61.8	80.3	111.2	129.7	142.1	129.7	117.4
80°	6.2	6.2	18.5	37.1	55.6	74.1	92.7	111.2	117.4	105.0	92.7
82.5°	6.2	6.2	18.5	37.1	55.6	68.0	98.9	111.2	123.6	111.2	92.7
85°	0.0	6.2	18.5	37.1	49.4	55.6	55.6	37.1	30.9	18.5	18.5
87.5°	0.0	0.0	6.2	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)