

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: P532201

Luminaire Tested: **GALN-SA7C-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532201
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-SA7C-740-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 33639 lumens
Efficiency: N/A
Efficacy: 89.2 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

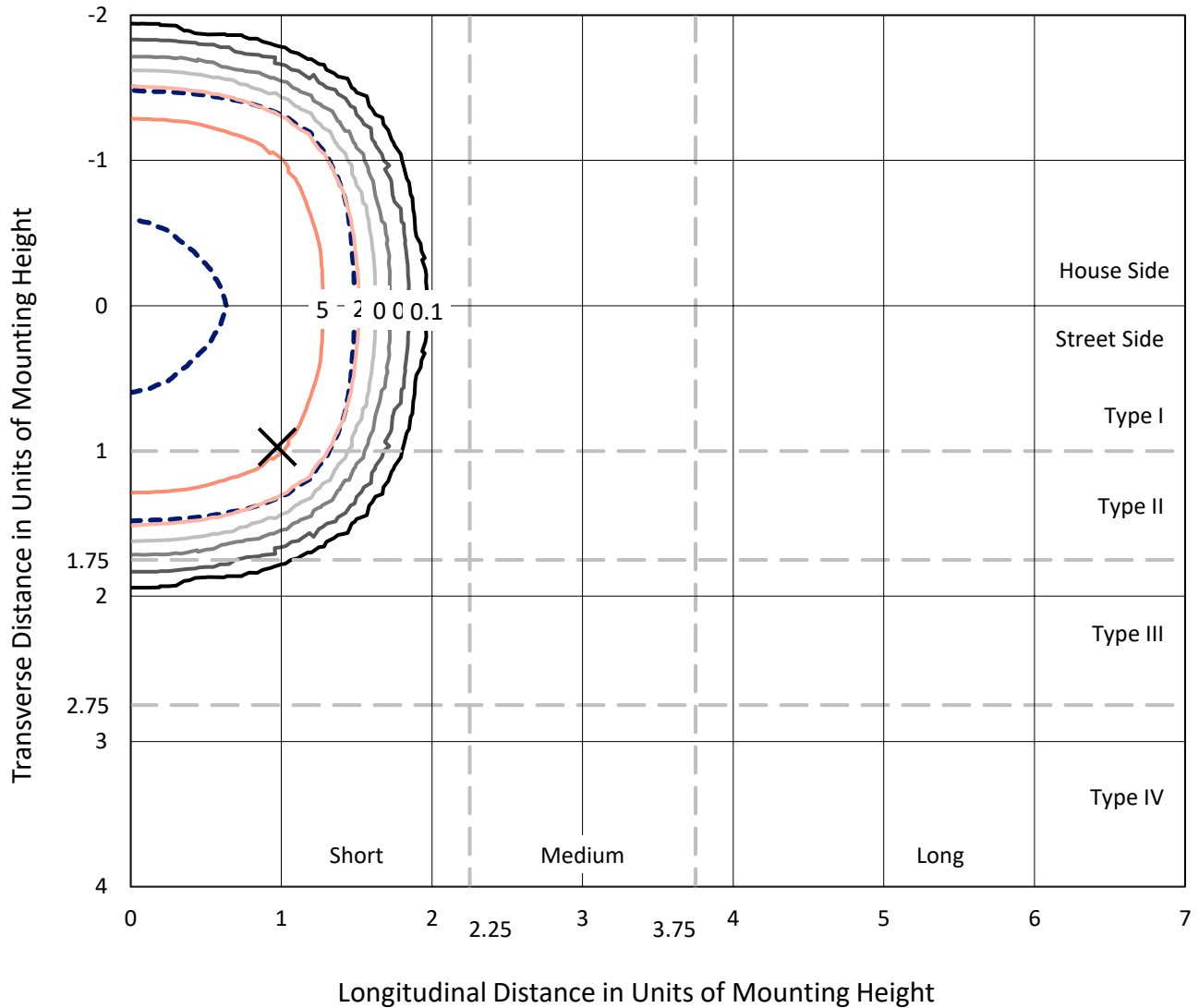
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

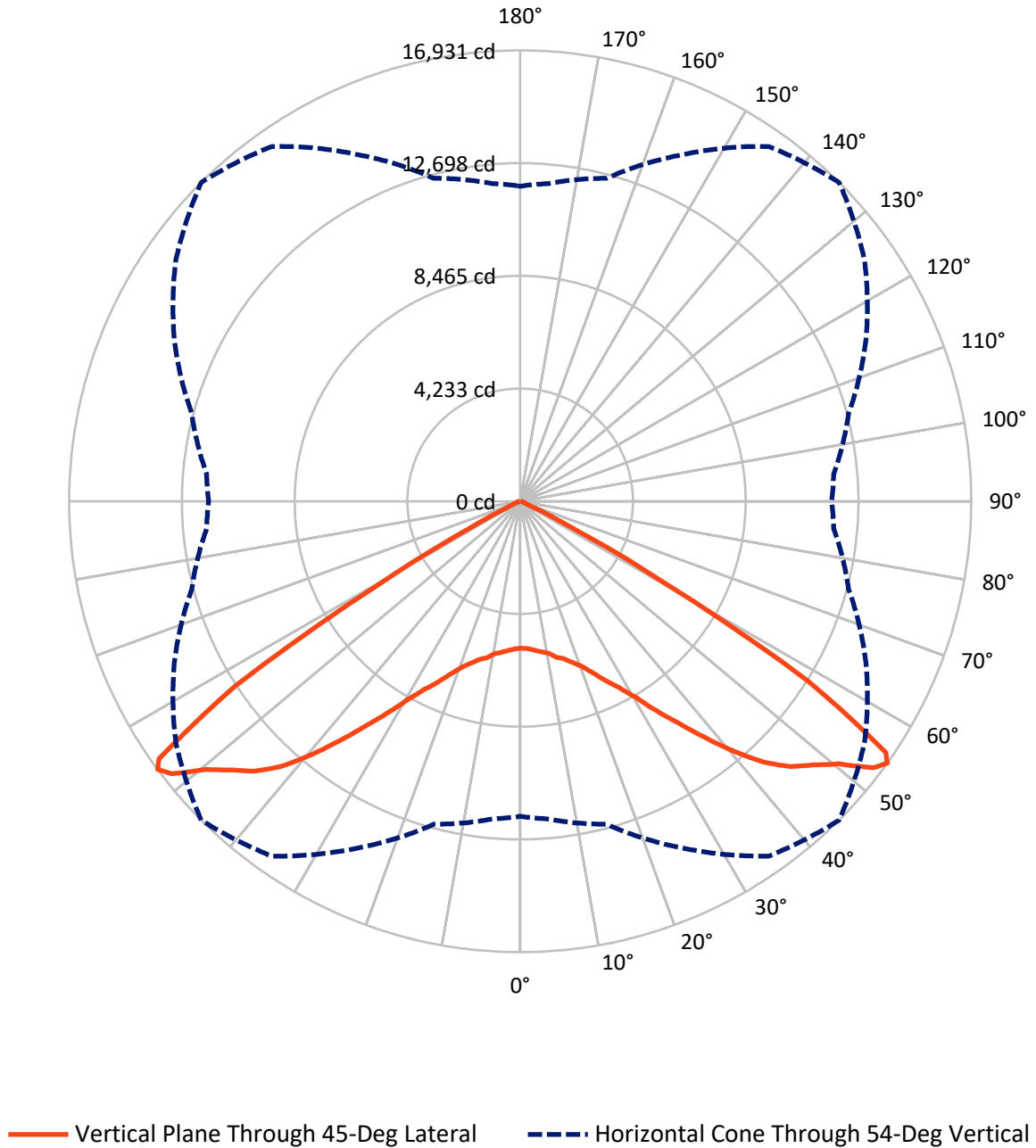
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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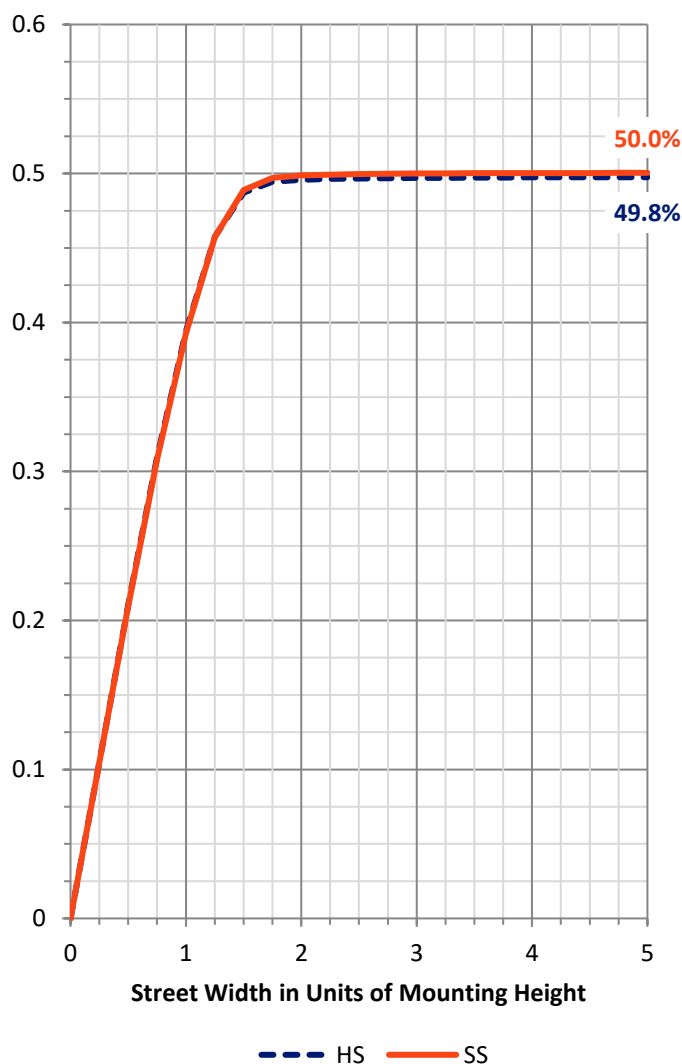
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16819.5	0.0	16819.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16819.5	0.0	16819.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33639.0	0.0	33639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.9	1.6
10°-20°	1748.3	5.2
20°-30°	3426.5	10.2
30°-40°	6161.6	18.3
40°-50°	10547.5	31.4
50°-60°	10205.7	30.3
60°-70°	873.6	2.6
70°-80°	103.6	0.3
80°-90°	32.5	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°	33639.0	100.0
0°-180°	33639.0	100.0

Coefficient of Utilization



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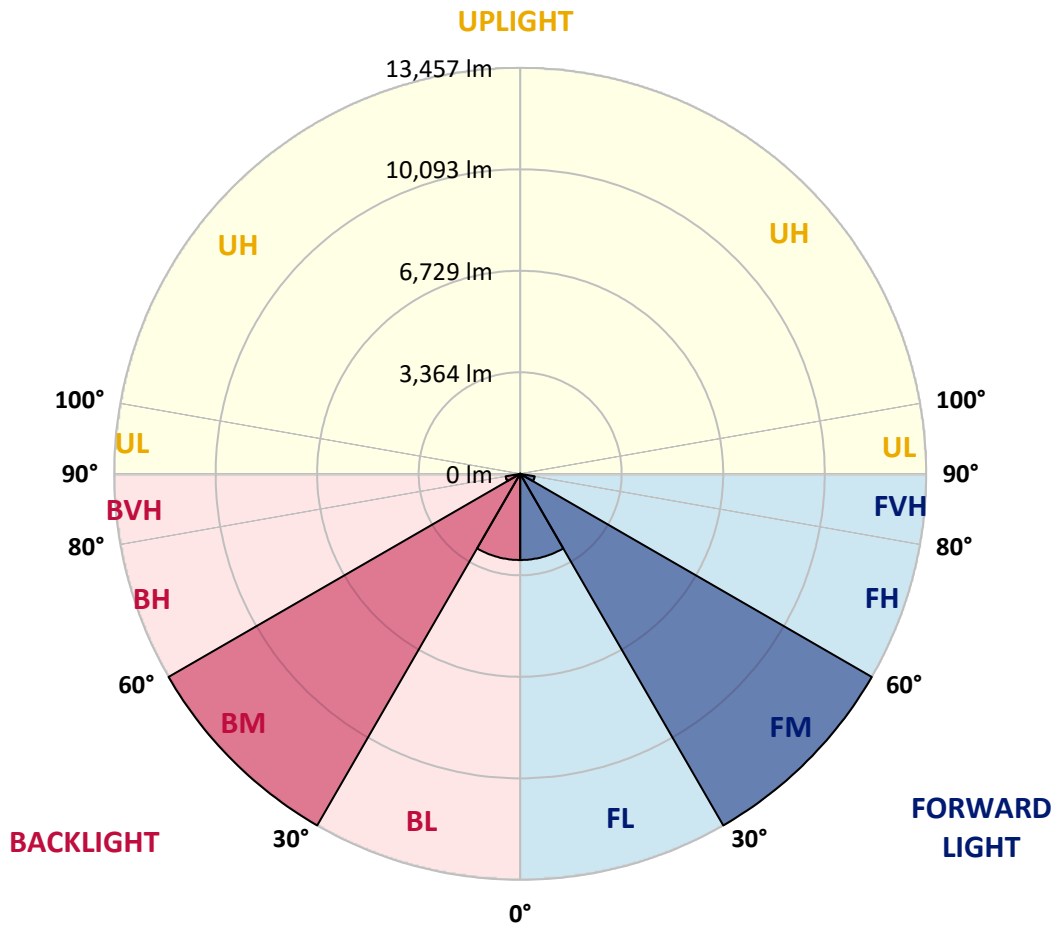
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2857.3	8.5			
FM (30°-60°)	13457.3	40.0			
FH (60°-80°)	488.6	1.5			G0/660
FVH (80°-90°)	16.2	0.0			G1/100
BL (0°-30°)	2857.3	8.5	B4/5000		
BM (30°-60°)	13457.3	40.0	B5		
BH (60°-80°)	488.6	1.5	B1/500		G0/660
BVH (80°-90°)	16.2	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°	5515.7	5515.7	5515.7	5515.7	5515.7	5515.7	5515.7	5515.7	5515.7	5515.7	5515.7
2.5°	5542.4	5574.4	5553.1	5569.0	5569.0	5542.4	5558.4	5494.4	5537.1	5505.1	5510.4
5°	5627.7	5622.3	5622.3	5627.7	5606.3	5617.0	5595.7	5574.4	5558.4	5537.1	5601.0
7.5°	5734.2	5734.2	5696.9	5707.6	5696.9	5712.9	5670.3	5627.7	5611.7	5595.7	5585.0
10°	5835.5	5824.8	5808.9	5856.8	5819.5	5798.2	5776.9	5750.2	5691.6	5670.3	5649.0
12.5°	5984.7	5979.4	5958.1	6006.0	5984.7	6006.0	5926.1	5856.8	5846.2	5776.9	5814.2
15°	6160.6	6208.5	6171.2	6171.2	6160.6	6133.9	6102.0	6070.0	5974.1	5947.4	5952.7
17.5°	6389.7	6373.8	6379.1	6379.1	6432.4	6363.1	6299.1	6219.2	6171.2	6155.3	6102.0
20°	6608.2	6629.6	6624.2	6661.5	6693.5	6618.9	6549.6	6539.0	6405.7	6427.0	6352.4
22.5°	6991.9	6976.0	7002.6	7029.2	7007.9	6997.3	6933.3	6853.4	6736.1	6682.8	6672.2
25°	7397.0	7370.3	7322.4	7386.3	7418.3	7466.2	7343.7	7301.0	7119.8	7039.9	7045.2
27.5°	7743.4	7780.7	7834.0	7860.6	7940.5	7924.6	7839.3	7700.7	7562.2	7471.6	7413.0
30°	8217.7	8239.0	8329.6	8366.9	8505.4	8542.7	8409.5	8249.6	8004.5	7887.3	7818.0
32.5°	8654.7	8803.9	8798.6	8985.1	9208.9	9363.4	9123.6	8878.5	8633.3	8494.8	8372.2
35°	9363.4	9336.8	9491.3	9688.5	10050.9	10226.8	9965.7	9683.2	9310.2	9086.3	8990.4
37.5°	10024.3	10034.9	10242.8	10557.2	10972.9	11244.7	11015.5	10551.9	10168.2	9880.4	9747.2
40°	10983.5	11004.8	11218.0	11575.1	12044.0	12337.2	12070.7	11601.7	11090.1	10866.3	10866.3
42.5°	12108.0	12198.6	12337.2	12646.3	13067.3	13392.3	13152.5	12784.8	12267.9	11980.1	12022.7
45°	13264.4	13307.1	13397.7	13856.0	14053.2	14213.0	13989.2	13818.7	13472.3	13120.6	13061.9
47.5°	14346.3	14362.3	14628.7	14772.6	14927.2	14793.9	14937.8	14714.0	14325.0	13983.9	13914.6
50°	14825.9	14799.3	15177.6	15614.6	15731.9	15497.4	15374.8	15225.6	14634.1	14223.7	14042.5
52.5°	13429.6	13584.2	14287.7	15502.7	16419.3	16616.5	15902.4	15214.9	14111.8	13312.4	13189.8
54°	11830.9	11974.8	12555.7	14356.9	16264.8	16930.9	15779.8	14319.6	12763.5	11814.9	11692.3
55°	10248.1	10088.2	11143.4	12982.0	15540.0	16653.8	15294.9	13163.2	11383.2	10514.6	10344.0
57.5°	5547.7	5574.4	6464.4	8201.7	10919.6	12768.8	11276.6	8905.1	6725.5	5750.2	5665.0
60°	1758.6	1801.3	2190.3	3314.8	5217.3	6229.9	5339.9	3575.9	2472.8	1982.5	1902.5
62.5°	548.9	570.2	623.5	927.3	1428.2	2041.1	1598.8	959.3	714.1	655.5	666.2
65°	335.7	335.7	341.1	362.4	426.3	495.6	479.6	421.0	405.0	394.4	389.0
67.5°	218.5	213.2	223.8	239.8	250.5	255.8	271.8	287.8	282.4	271.8	271.8
70°	133.2	127.9	138.6	159.9	165.2	175.9	191.9	213.2	207.8	197.2	202.5
72.5°	74.6	74.6	79.9	95.9	111.9	122.6	138.6	154.5	159.9	154.5	154.5
75°	26.6	32.0	42.6	58.6	69.3	85.3	101.3	117.2	133.2	122.6	117.2
77.5°	10.7	10.7	21.3	37.3	53.3	69.3	95.9	111.9	122.6	111.9	101.3
80°	5.3	5.3	16.0	32.0	48.0	64.0	79.9	95.9	101.3	90.6	79.9
82.5°	5.3	5.3	16.0	32.0	48.0	58.6	85.3	95.9	106.6	95.9	79.9
85°	0.0	5.3	16.0	32.0	42.6	48.0	48.0	32.0	26.6	16.0	16.0
87.5°	0.0	0.0	5.3	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)