

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: P532123

Luminaire Tested: **GALN-SA7C-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532123
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-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 28133 lumens
Efficiency: N/A
Efficacy: 74.6 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

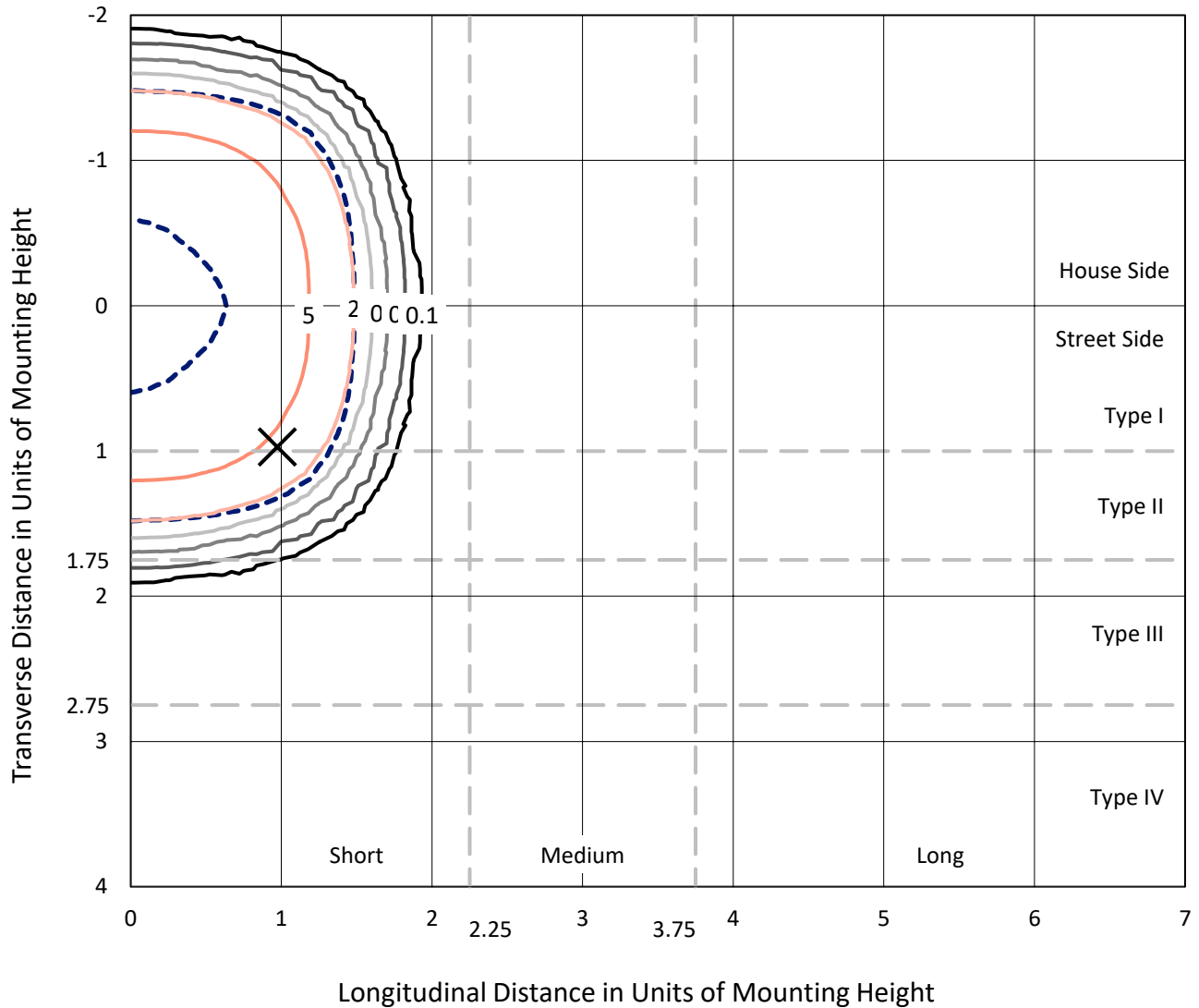
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

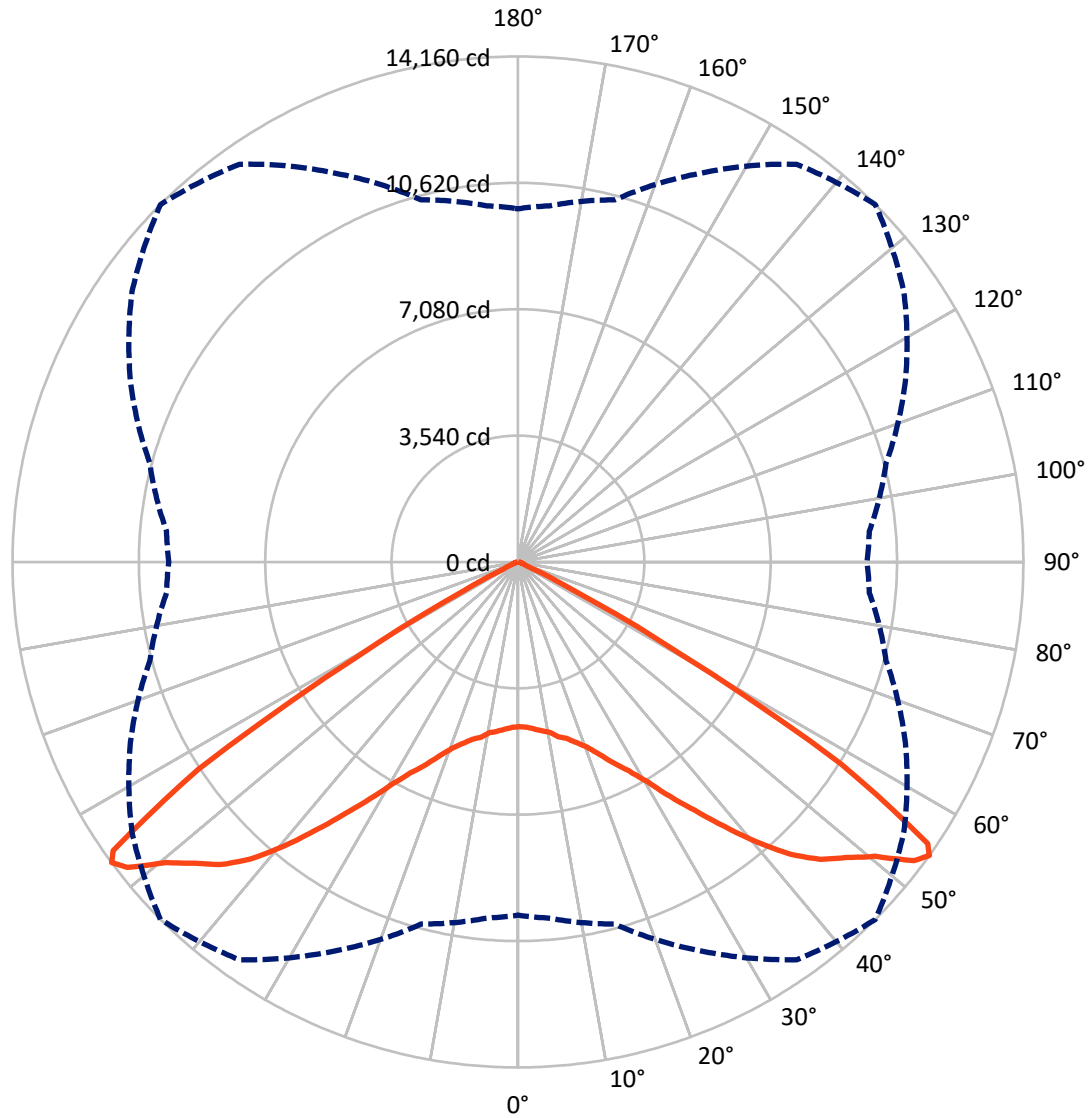
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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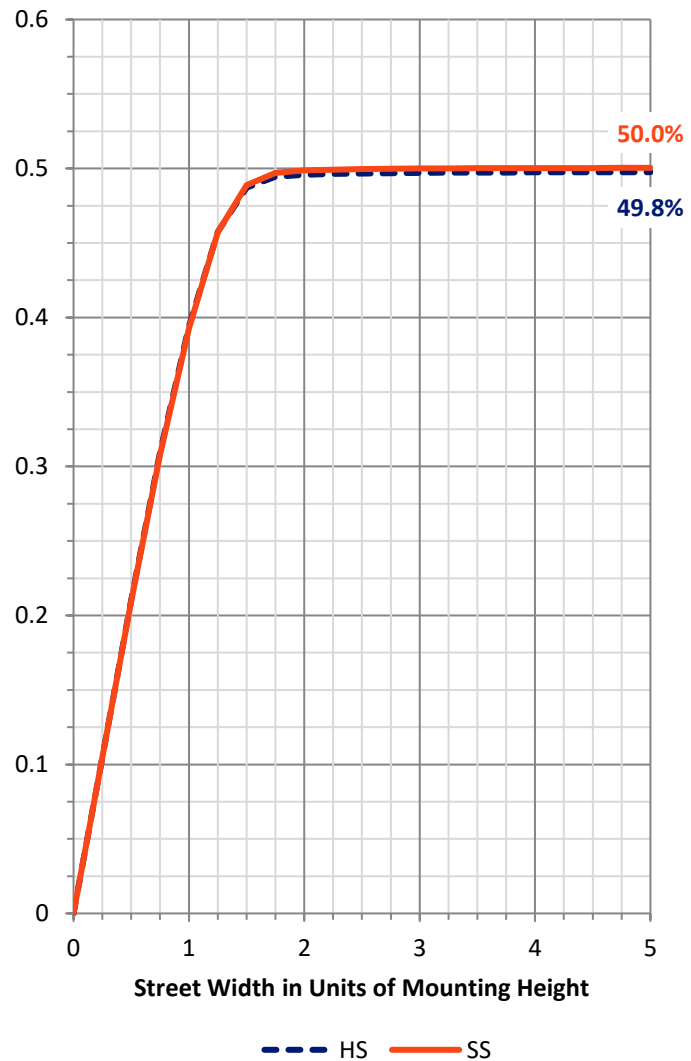
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14066.5	0.0	14066.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14066.5	0.0	14066.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28133.0	0.0	28133.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.5	1.6
10°-20°	1462.1	5.2
20°-30°	2865.7	10.2
30°-40°	5153.1	18.3
40°-50°	8821.1	31.4
50°-60°	8535.2	30.3
60°-70°	730.6	2.6
70°-80°	86.6	0.3
80°-90°	27.2	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°	28133.0	100.0
0°-180°	28133.0	100.0



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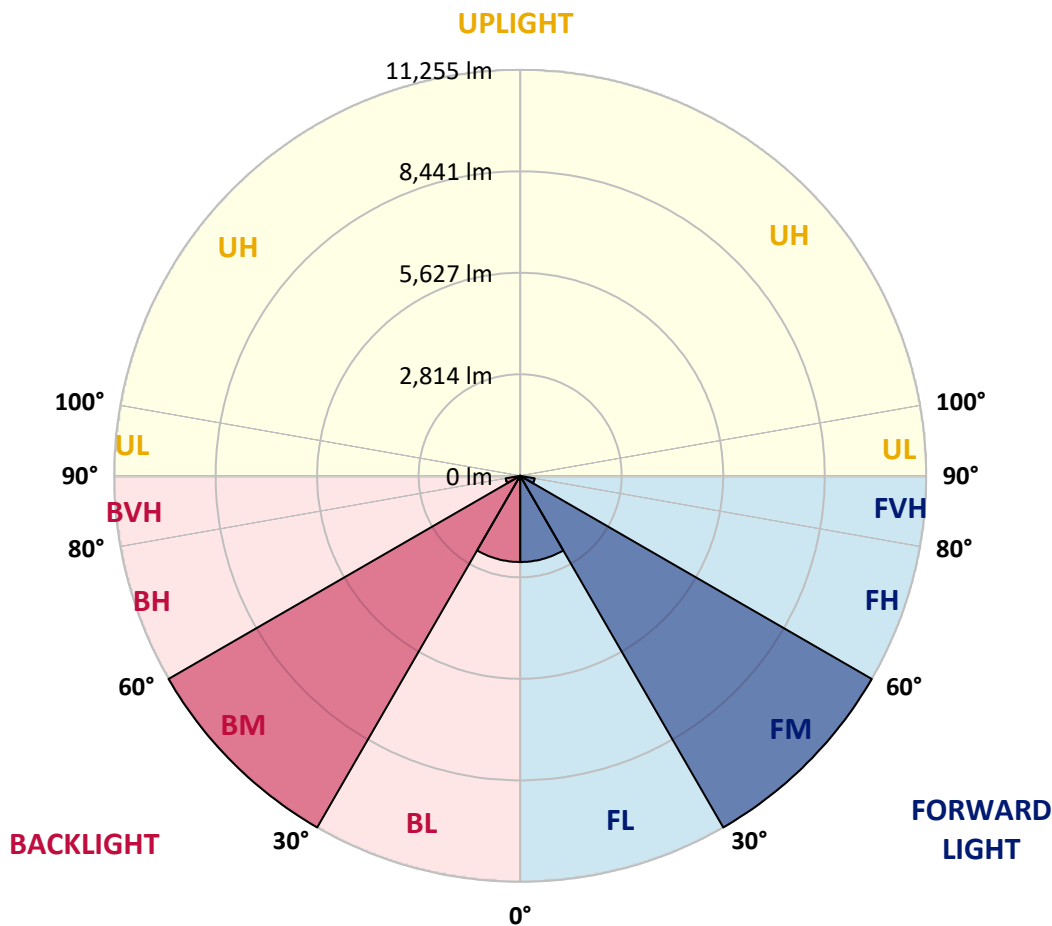
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2389.6	8.5			
FM (30°-60°)	11254.7	40.0			
FH (60°-80°)	408.6	1.5			G0/660
FVH (80°-90°)	13.6	0.0			G1/100
BL (0°-30°)	2389.6	8.5	B3/2500		
BM (30°-60°)	11254.7	40.0	B5		
BH (60°-80°)	408.6	1.5	B1/500		G0/660
BVH (80°-90°)	13.6	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°	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9
2.5°	4635.2	4662.0	4644.1	4657.5	4657.5	4635.2	4648.6	4595.1	4630.8	4604.0	4608.5
5°	4706.5	4702.1	4702.1	4706.5	4688.7	4697.6	4679.8	4662.0	4648.6	4630.8	4684.2
7.5°	4795.7	4795.7	4764.5	4773.4	4764.5	4777.8	4742.2	4706.5	4693.2	4679.8	4670.9
10°	4880.4	4871.4	4858.1	4898.2	4867.0	4849.2	4831.3	4809.0	4760.0	4742.2	4724.4
12.5°	5005.1	5000.7	4982.9	5023.0	5005.1	5023.0	4956.1	4898.2	4889.3	4831.3	4862.5
15°	5152.2	5192.3	5161.1	5161.1	5152.2	5129.9	5103.2	5076.5	4996.2	4973.9	4978.4
17.5°	5343.9	5330.5	5335.0	5335.0	5379.5	5321.6	5268.1	5201.3	5161.1	5147.8	5103.2
20°	5526.6	5544.4	5540.0	5571.2	5597.9	5535.5	5477.6	5468.7	5357.2	5375.1	5312.7
22.5°	5847.5	5834.1	5856.4	5878.7	5860.9	5852.0	5798.5	5731.6	5633.6	5589.0	5580.1
25°	6186.2	6164.0	6123.8	6177.3	6204.1	6244.2	6141.7	6106.0	5954.5	5887.6	5892.1
27.5°	6475.9	6507.1	6551.7	6574.0	6640.8	6627.5	6556.2	6440.3	6324.4	6248.6	6199.6
30°	6872.6	6890.4	6966.2	6997.4	7113.3	7144.5	7033.1	6899.3	6694.3	6596.3	6538.3
32.5°	7238.1	7362.9	7358.4	7514.4	7701.6	7830.8	7630.3	7425.3	7220.2	7104.4	7001.9
35°	7830.8	7808.6	7937.8	8102.7	8405.8	8552.9	8334.5	8098.3	7786.3	7599.1	7518.9
37.5°	8383.5	8392.4	8566.2	8829.2	9176.8	9404.1	9212.5	8824.7	8503.8	8263.2	8151.7
40°	9185.8	9203.6	9381.9	9680.5	10072.7	10317.8	10095.0	9702.8	9274.9	9087.7	9087.7
42.5°	10126.2	10201.9	10317.8	10576.3	10928.4	11200.3	10999.7	10692.2	10259.9	10019.2	10054.9
45°	11093.3	11129.0	11204.8	11588.1	11753.0	11886.7	11699.5	11556.9	11267.2	10973.0	10924.0
47.5°	11998.1	12011.5	12234.3	12354.6	12483.9	12372.5	12492.8	12305.6	11980.3	11695.0	11637.1
50°	12399.2	12376.9	12693.4	13058.8	13156.9	12960.8	12858.3	12733.5	12238.8	11895.6	11744.0
52.5°	11231.5	11360.7	11949.1	12965.2	13731.8	13896.7	13299.5	12724.6	11802.0	11133.4	11030.9
54°	9894.4	10014.7	10500.6	12007.0	13602.6	14159.7	13197.0	11975.8	10674.4	9881.0	9778.5
55°	8570.7	8437.0	9319.5	10857.1	12996.4	13927.9	12791.4	11008.6	9520.0	8793.5	8650.9
57.5°	4639.7	4662.0	5406.3	6859.2	9132.3	10678.8	9430.9	7447.6	5624.7	4809.0	4737.7
60°	1470.8	1506.4	1831.8	2772.2	4363.3	5210.2	4465.9	2990.6	2068.0	1658.0	1591.1
62.5°	459.1	476.9	521.5	775.5	1194.5	1707.0	1337.1	802.2	597.2	548.2	557.1
65°	280.8	280.8	285.2	303.1	356.6	414.5	401.1	352.1	338.7	329.8	325.4
67.5°	182.7	178.3	187.2	200.6	209.5	213.9	227.3	240.7	236.2	227.3	227.3
70°	111.4	107.0	115.9	133.7	138.2	147.1	160.4	178.3	173.8	164.9	169.4
72.5°	62.4	62.4	66.9	80.2	93.6	102.5	115.9	129.3	133.7	129.3	129.3
75°	22.3	26.7	35.7	49.0	57.9	71.3	84.7	98.1	111.4	102.5	98.1
77.5°	8.9	8.9	17.8	31.2	44.6	57.9	80.2	93.6	102.5	93.6	84.7
80°	4.5	4.5	13.4	26.7	40.1	53.5	66.9	80.2	84.7	75.8	66.9
82.5°	4.5	4.5	13.4	26.7	40.1	49.0	71.3	80.2	89.1	80.2	66.9
85°	0.0	4.5	13.4	26.7	35.7	40.1	40.1	26.7	22.3	13.4	13.4
87.5°	0.0	0.0	4.5	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)