

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: P531890

Luminaire Tested: **GALN-SA7B-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29855 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

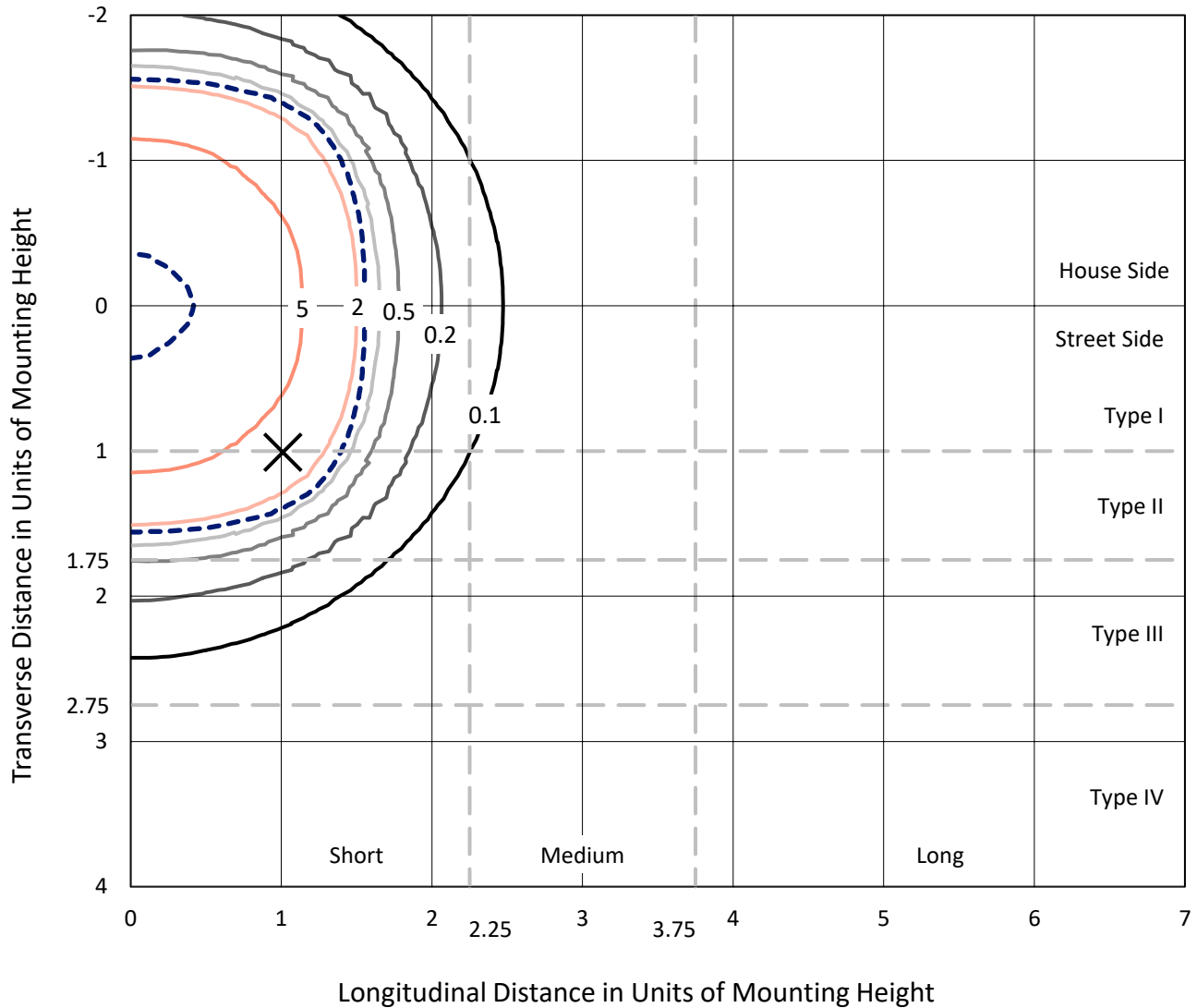
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

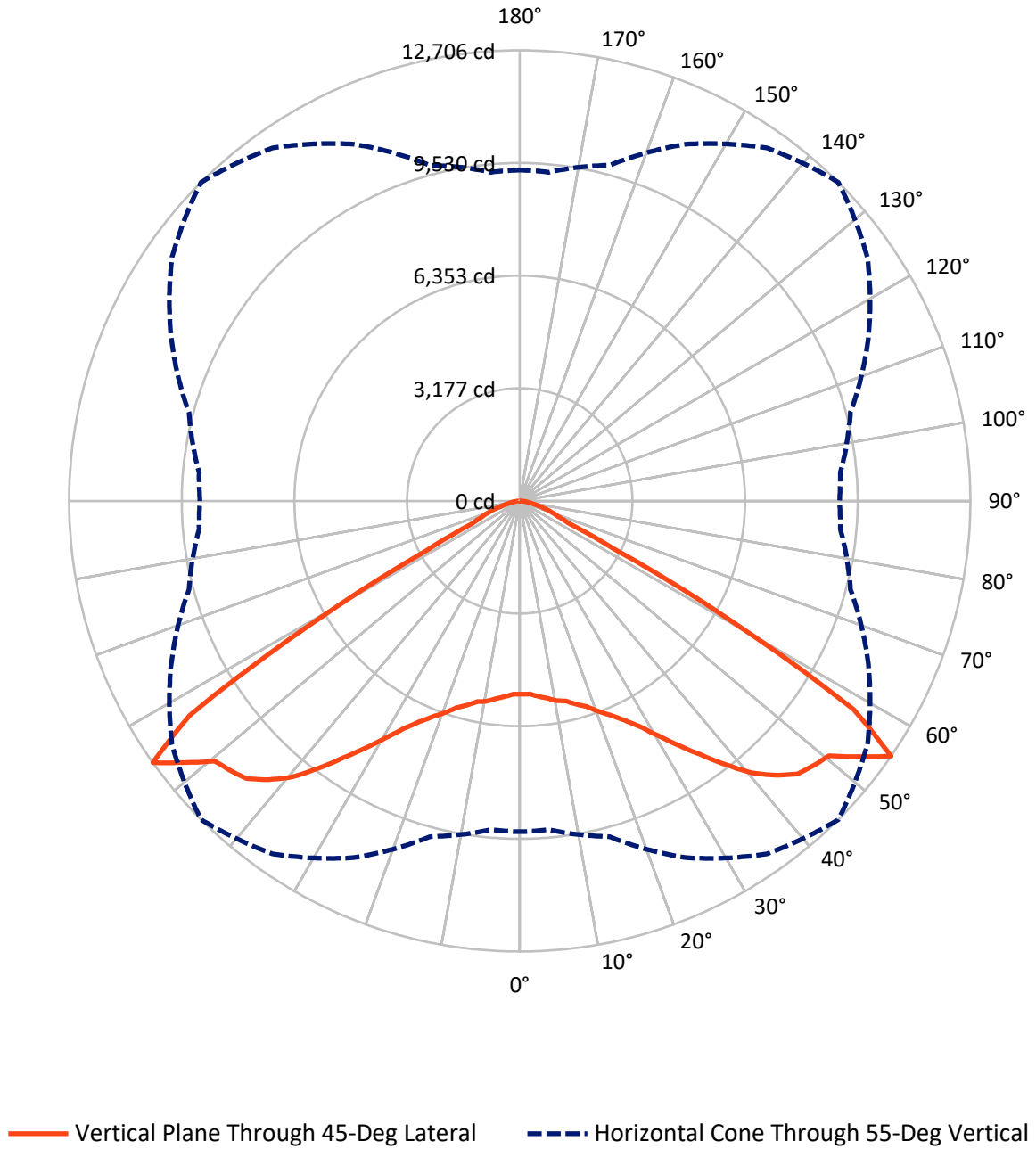
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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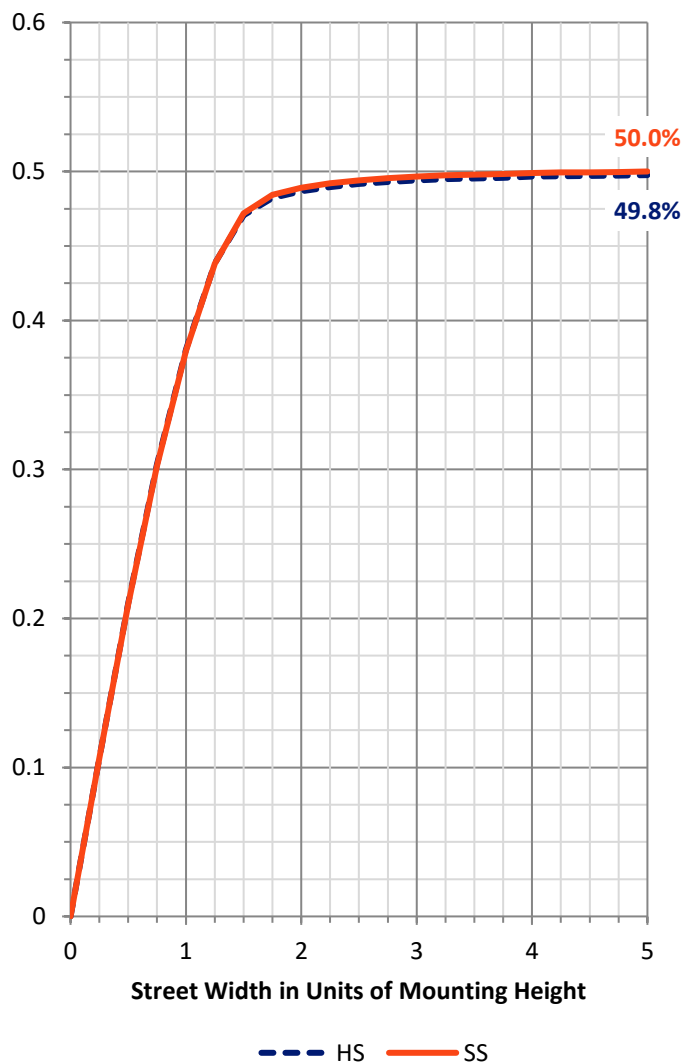
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14927.5	0.0	14927.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14927.5	0.0	14927.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29855.0	0.0	29855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.5	1.8
10°-20°	1687.3	5.7
20°-30°	3146.3	10.5
30°-40°	5267.9	17.6
40°-50°	8197.2	27.5
50°-60°	8511.3	28.5
60°-70°	1805.0	6.0
70°-80°	594.4	2.0
80°-90°	113.2	0.4
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°	29855.0	100.0
0°-180°	29855.0	100.0

Coefficient of Utilization



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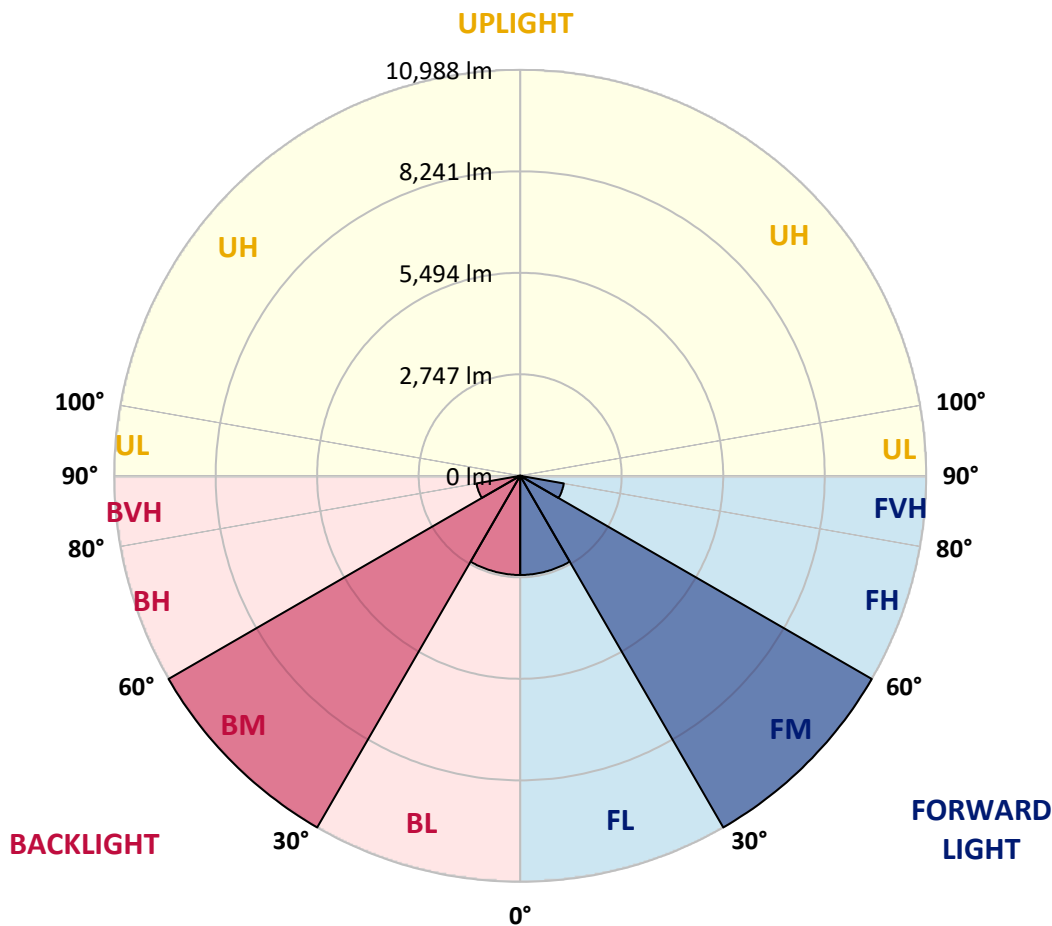
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2683.0	9.0			
FM (30°-60°)	10988.2	36.8			
FH (60°-80°)	1199.7	4.0			G1/1800
FVH (80°-90°)	56.6	0.2			G1/100
BL (0°-30°)	2683.0	9.0	B4/5000		
BM (30°-60°)	10988.2	36.8	B5		
BH (60°-80°)	1199.7	4.0	B3/2500		G1/1800
BVH (80°-90°)	56.6	0.2			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°	5451.1	5451.1	5451.1	5451.1	5451.1	5451.1	5451.1	5451.1	5451.1	5451.1	5451.1
2.5°	5516.0	5490.8	5447.5	5479.9	5505.2	5451.1	5472.7	5483.5	5476.3	5447.5	5458.3
5°	5595.4	5581.0	5544.9	5570.1	5537.7	5537.7	5516.0	5487.2	5530.4	5523.2	5541.3
7.5°	5595.4	5577.3	5649.5	5602.6	5617.0	5617.0	5581.0	5552.1	5573.7	5541.3	5523.2
10°	5707.2	5732.5	5700.0	5710.8	5703.6	5728.9	5674.7	5656.7	5638.7	5627.8	5606.2
12.5°	5840.7	5822.7	5833.5	5826.3	5851.5	5786.6	5754.1	5714.4	5746.9	5700.0	5732.5
15°	5948.9	5938.1	5948.9	5977.8	5952.5	5948.9	5891.2	5851.5	5801.0	5811.8	5761.3
17.5°	6096.8	6086.0	6089.6	6114.9	6111.3	6093.2	6049.9	5974.2	5956.1	5927.3	5894.8
20°	6316.9	6298.9	6291.6	6302.5	6320.5	6334.9	6248.4	6219.5	6158.2	6111.3	6057.2
22.5°	6504.5	6497.3	6526.1	6479.2	6518.9	6562.2	6479.2	6464.8	6313.3	6288.0	6230.3
25°	6764.2	6753.4	6735.4	6803.9	6850.8	6847.2	6767.9	6688.5	6573.0	6544.2	6544.2
27.5°	7038.4	6977.1	7070.9	7088.9	7171.9	7197.2	7128.6	7013.2	6904.9	6843.6	6858.0
30°	7381.1	7323.4	7345.1	7474.9	7583.2	7677.0	7503.8	7334.2	7182.7	7074.5	7056.5
32.5°	7723.9	7666.1	7731.1	7857.3	8073.8	8214.5	8044.9	7749.1	7572.3	7413.6	7446.1
35°	8001.6	8044.9	8149.6	8340.8	8564.4	8791.7	8521.1	8293.9	8041.3	7864.6	7889.8
37.5°	8449.0	8582.5	8665.4	8885.5	9203.0	9437.5	9156.1	8860.3	8589.7	8358.8	8279.4
40°	9033.4	9123.6	9217.4	9477.2	9852.3	10086.8	9819.9	9433.9	9166.9	8928.8	8918.0
42.5°	9675.6	9762.2	9859.6	10177.0	10400.7	10577.5	10332.2	10126.5	9830.7	9643.1	9632.3
45°	10422.3	10361.0	10469.2	10678.5	10866.1	10981.5	10822.8	10721.8	10508.9	10335.8	10317.7
47.5°	10920.2	10866.1	11060.9	11248.5	11277.3	11151.1	11183.5	11277.3	11053.7	10768.7	10858.9
50°	11208.8	11208.8	11338.7	11511.8	11457.7	11295.4	11551.5	11558.7	11335.1	11082.5	11082.5
52.5°	10707.3	10819.2	11187.2	11753.5	11933.9	11980.8	11923.1	11677.8	11093.4	10577.5	10552.2
55°	9329.2	9304.0	9801.8	11100.6	12150.4	12706.0	11970.0	10840.8	9653.9	9073.1	9015.4
57.5°	6068.0	6096.8	6840.0	8164.0	10058.0	11093.4	9852.3	8265.0	6840.0	6039.1	6114.9
60°	2731.0	2828.4	3279.3	4267.8	5894.8	6739.0	5909.2	4484.2	3441.6	2987.1	3026.8
62.5°	1569.3	1587.3	1605.4	1904.8	2510.9	2969.1	2608.3	2013.0	1774.9	1695.6	1695.6
65°	1324.0	1313.2	1316.8	1342.0	1407.0	1500.8	1461.1	1407.0	1414.2	1407.0	1396.1
67.5°	1125.6	1140.0	1129.2	1147.2	1150.8	1165.3	1190.5	1212.2	1215.8	1223.0	1215.8
70°	923.5	927.2	934.4	948.8	952.4	963.2	999.3	1017.3	1028.2	1028.2	1042.6
72.5°	707.1	703.5	710.7	725.1	743.2	746.8	779.2	804.5	818.9	800.9	804.5
75°	465.4	469.0	479.8	490.6	515.9	541.1	552.0	577.2	580.8	588.0	570.0
77.5°	277.8	285.0	295.8	317.5	339.1	360.8	386.0	404.1	411.3	404.1	382.4
80°	180.4	180.4	194.8	212.8	238.1	256.1	270.6	285.0	295.8	285.0	277.8
82.5°	111.8	111.8	129.9	151.5	169.6	180.4	202.0	220.1	230.9	223.7	212.8
85°	57.7	61.3	75.8	93.8	108.2	115.4	111.8	101.0	90.2	86.6	79.4
87.5°	18.0	18.0	21.6	21.6	18.0	18.0	21.6	18.0	21.6	21.6	21.6
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)