

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: P532045

Luminaire Tested: **GALN-SA7B-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532045
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-SA7B-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA 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: 20015 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

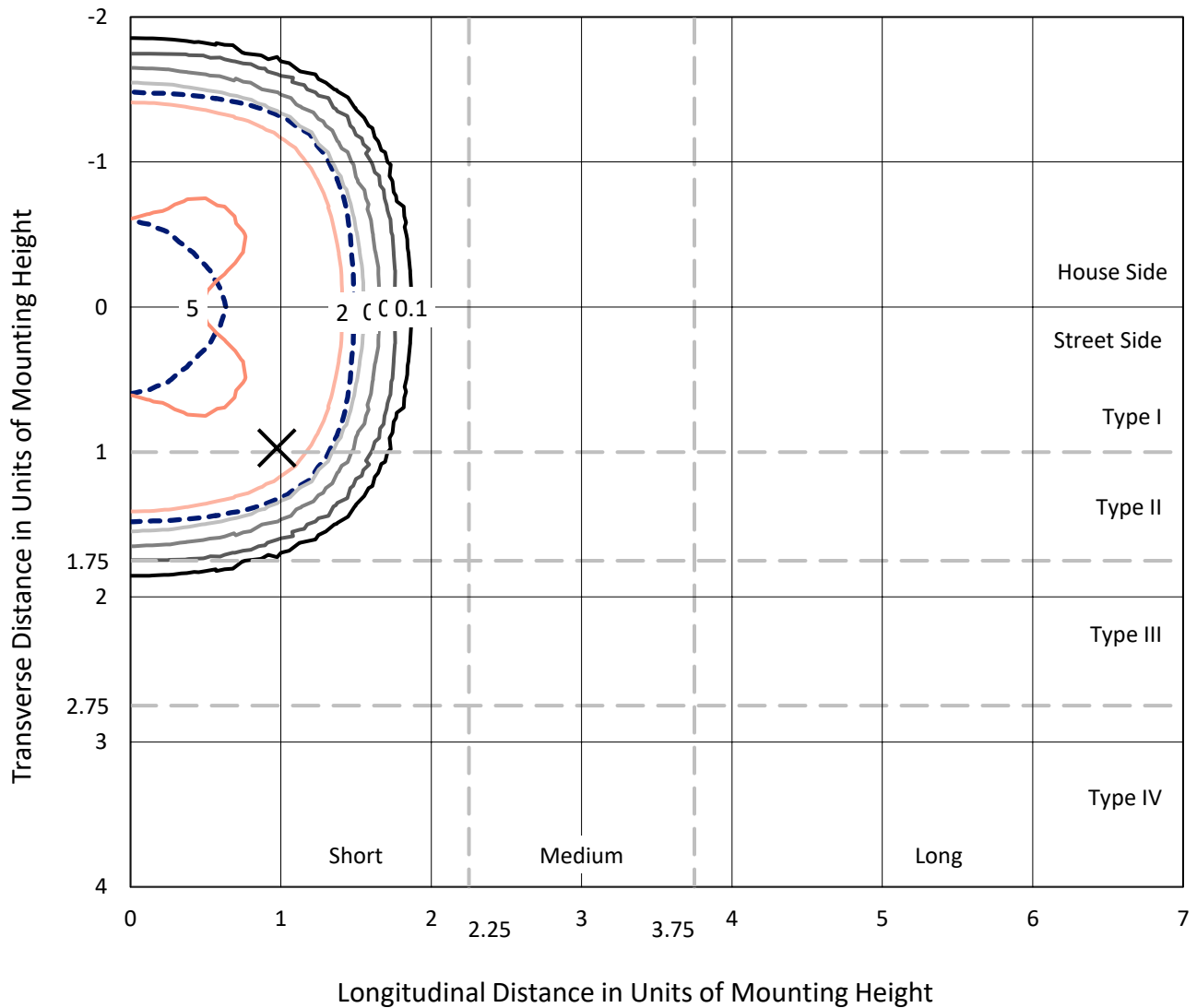
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

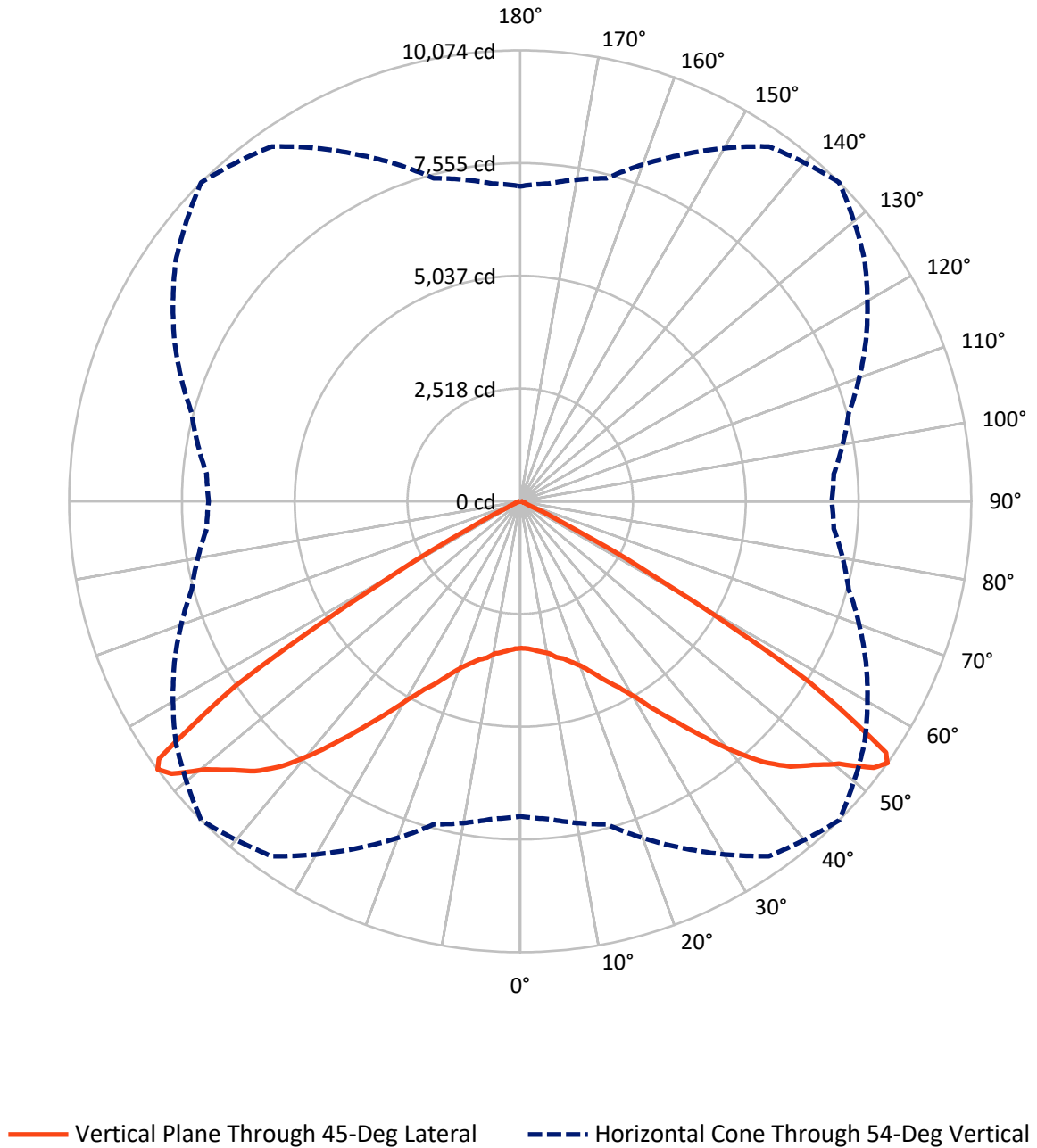
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot





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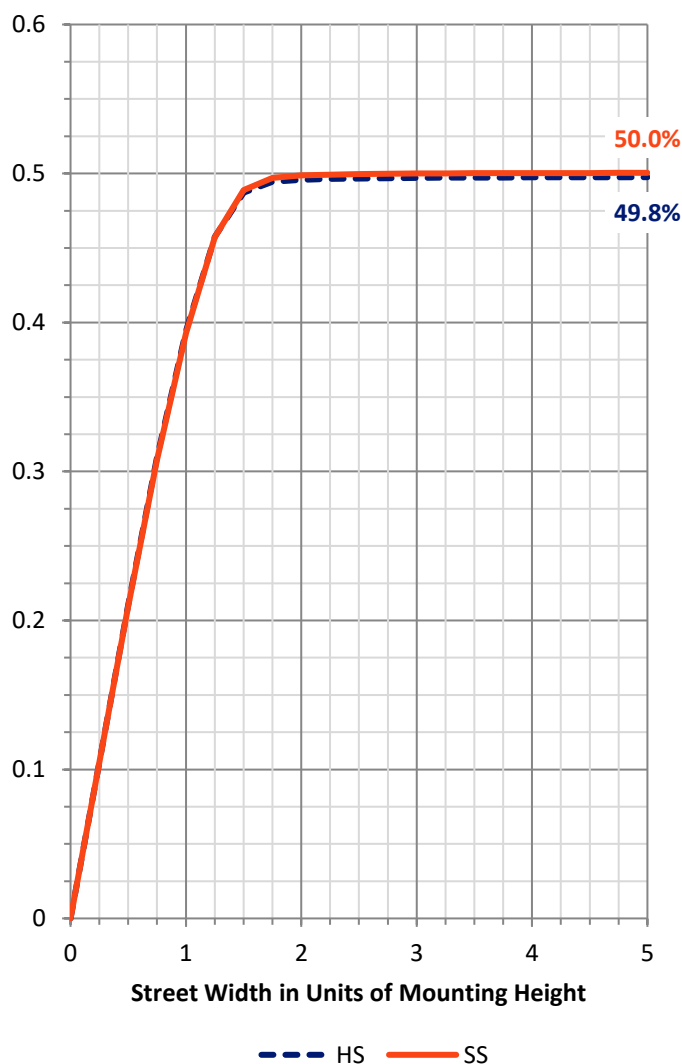
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10007.5	0.0	10007.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10007.5	0.0	10007.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20015.0	0.0	20015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.2	1.6
10°-20°	1040.2	5.2
20°-30°	2038.8	10.2
30°-40°	3666.1	18.3
40°-50°	6275.7	31.4
50°-60°	6072.3	30.3
60°-70°	519.8	2.6
70°-80°	61.6	0.3
80°-90°	19.3	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°	20015.0	100.0
0°-180°	20015.0	100.0

Coefficient of Utilization

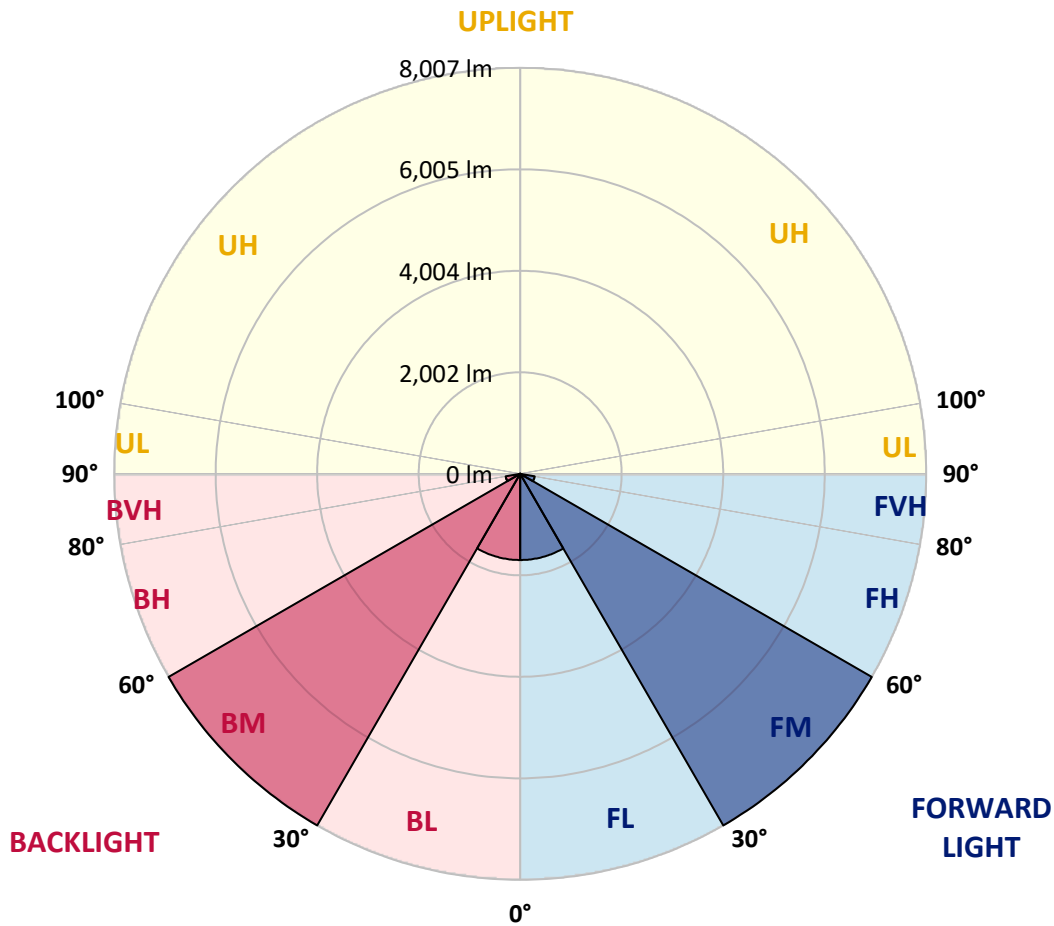


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1700.1	8.5			
FM (30°-60°)	8007.0	40.0			
FH (60°-80°)	290.7	1.5			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	1700.1	8.5	B3/2500		
BM (30°-60°)	8007.0	40.0	B4/8500		
BH (60°-80°)	290.7	1.5	B1/500		G0/660
BVH (80°-90°)	9.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8
2.5°	3297.7	3316.7	3304.0	3313.5	3313.5	3297.7	3307.2	3269.2	3294.5	3275.5	3278.7
5°	3348.4	3345.3	3345.3	3348.4	3335.7	3342.1	3329.4	3316.7	3307.2	3294.5	3332.6
7.5°	3411.8	3411.8	3389.6	3396.0	3389.6	3399.2	3373.8	3348.4	3338.9	3329.4	3323.1
10°	3472.1	3465.7	3456.2	3484.8	3462.6	3449.9	3437.2	3421.4	3386.5	3373.8	3361.1
12.5°	3560.9	3557.7	3545.0	3573.6	3560.9	3573.6	3526.0	3484.8	3478.4	3437.2	3459.4
15°	3665.5	3694.0	3671.9	3671.9	3665.5	3649.7	3630.6	3611.6	3554.5	3538.7	3541.8
17.5°	3801.9	3792.3	3795.5	3795.5	3827.2	3786.0	3748.0	3700.4	3671.9	3662.3	3630.6
20°	3931.9	3944.5	3941.4	3963.6	3982.6	3938.2	3897.0	3890.6	3811.4	3824.1	3779.7
22.5°	4160.2	4150.7	4166.5	4182.4	4169.7	4163.3	4125.3	4077.7	4008.0	3976.3	3969.9
25°	4401.1	4385.3	4356.8	4394.8	4413.8	4442.4	4369.4	4344.1	4236.3	4188.7	4191.9
27.5°	4607.3	4629.5	4661.2	4677.0	4724.6	4715.1	4664.3	4581.9	4499.4	4445.5	4410.7
30°	4889.5	4902.1	4956.0	4978.2	5060.7	5082.9	5003.6	4908.5	4762.6	4692.9	4651.6
32.5°	5149.5	5238.3	5235.1	5346.1	5479.2	5571.2	5428.5	5282.6	5136.8	5054.3	4981.4
35°	5571.2	5555.3	5647.3	5764.6	5980.2	6084.9	5929.5	5761.4	5539.5	5406.3	5349.2
37.5°	5964.4	5970.7	6094.4	6281.5	6528.8	6690.5	6554.2	6278.3	6050.0	5878.8	5799.5
40°	6535.1	6547.8	6674.7	6887.1	7166.1	7340.5	7182.0	6903.0	6598.6	6465.4	6465.4
42.5°	7204.2	7258.1	7340.5	7524.4	7774.9	7968.4	7825.7	7606.9	7299.3	7128.1	7153.5
45°	7892.3	7917.6	7971.5	8244.2	8361.5	8456.7	8323.5	8222.0	8015.9	7806.6	7771.8
47.5°	8535.9	8545.5	8704.0	8789.6	8881.6	8802.3	8887.9	8754.7	8523.3	8320.3	8279.1
50°	8821.3	8805.5	9030.6	9290.6	9360.4	9220.9	9147.9	9059.1	8707.2	8463.0	8355.2
52.5°	7990.6	8082.5	8501.1	9224.0	9769.4	9886.7	9461.8	9052.8	8396.4	7920.8	7847.9
54°	7039.3	7124.9	7470.5	8542.3	9677.5	10073.8	9388.9	8520.1	7594.2	7029.8	6956.9
55°	6097.6	6002.4	6630.3	7724.2	9246.2	9908.9	9100.4	7832.0	6772.9	6256.1	6154.6
57.5°	3300.9	3316.7	3846.2	4879.9	6497.1	7597.4	6709.5	5298.5	4001.6	3421.4	3370.6
60°	1046.4	1071.7	1303.2	1972.3	3104.3	3706.7	3177.2	2127.6	1471.3	1179.6	1132.0
62.5°	326.6	339.3	371.0	551.7	849.8	1214.4	951.3	570.8	424.9	390.0	396.4
65°	199.8	199.8	202.9	215.6	253.7	294.9	285.4	250.5	241.0	234.6	231.5
67.5°	130.0	126.8	133.2	142.7	149.0	152.2	161.7	171.2	168.1	161.7	161.7
70°	79.3	76.1	82.4	95.1	98.3	104.6	114.2	126.8	123.7	117.3	120.5
72.5°	44.4	44.4	47.6	57.1	66.6	72.9	82.4	92.0	95.1	92.0	92.0
75°	15.9	19.0	25.4	34.9	41.2	50.7	60.2	69.8	79.3	72.9	69.8
77.5°	6.3	6.3	12.7	22.2	31.7	41.2	57.1	66.6	72.9	66.6	60.2
80°	3.2	3.2	9.5	19.0	28.5	38.1	47.6	57.1	60.2	53.9	47.6
82.5°	3.2	3.2	9.5	19.0	28.5	34.9	50.7	57.1	63.4	57.1	47.6
85°	0.0	3.2	9.5	19.0	25.4	28.5	28.5	19.0	15.9	9.5	9.5
87.5°	0.0	0.0	3.2	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)