

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: P455995

Luminaire Tested: **GALN-SA7B-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34197 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

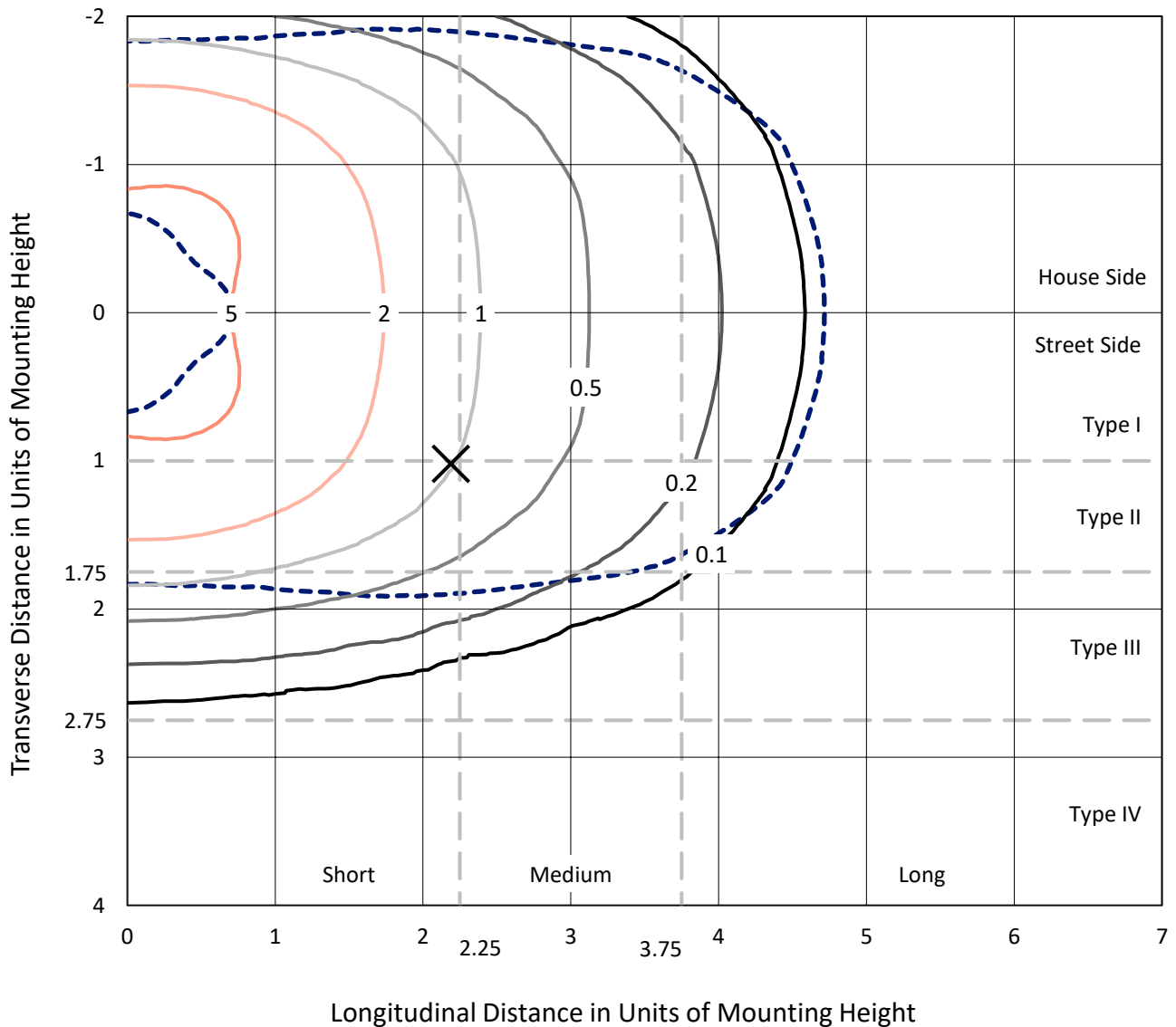
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

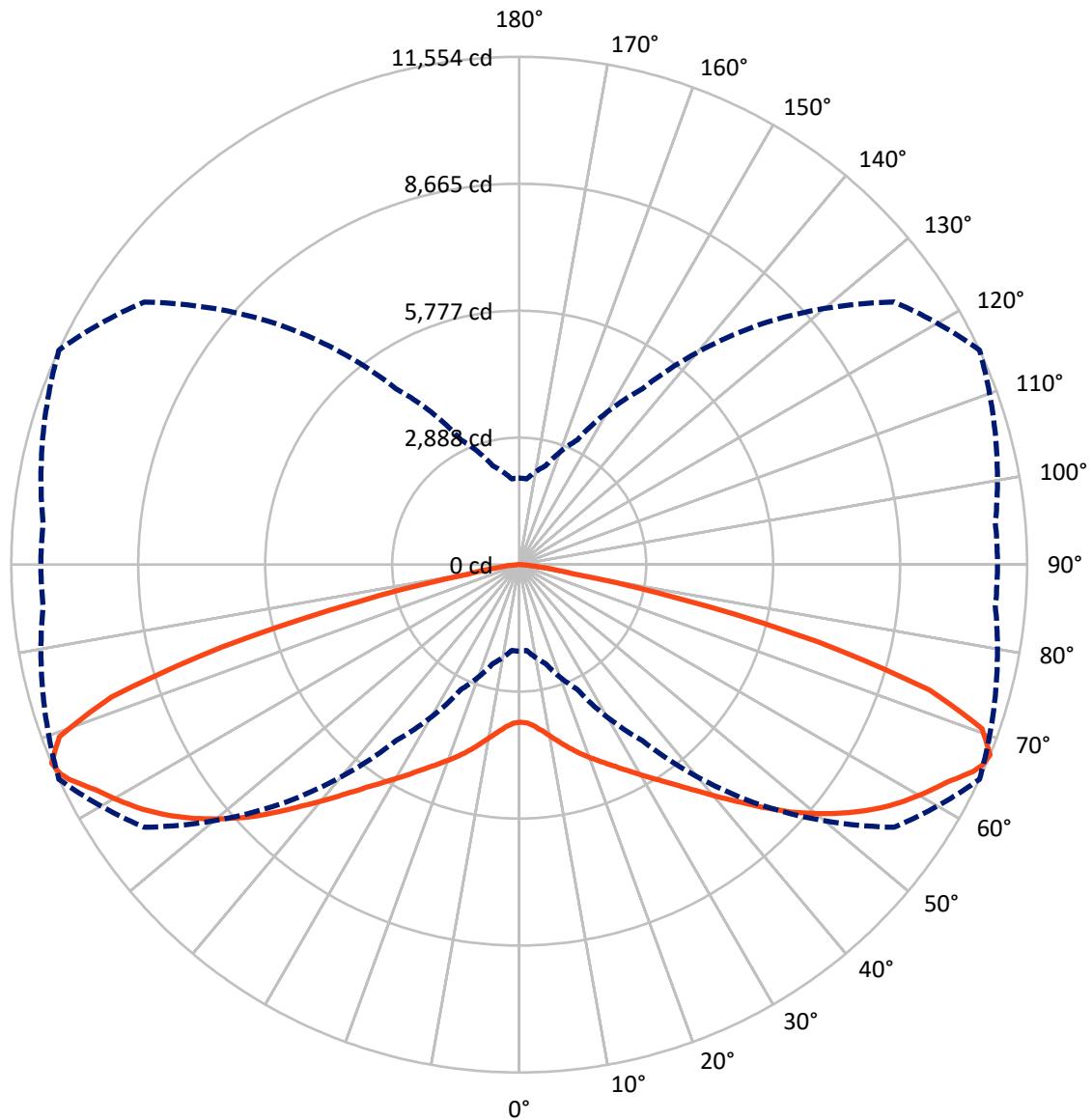
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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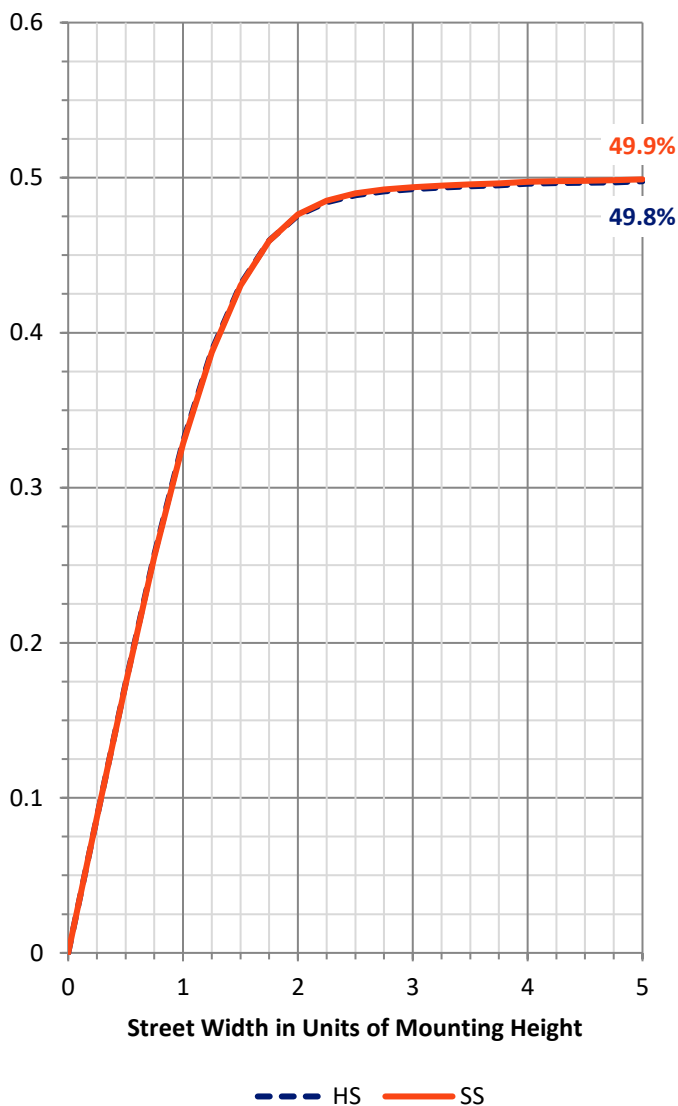
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17098.5	0.0	17098.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17098.5	0.0	17098.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34197.0	0.0	34197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.3	1.0
10°-20°	1182.3	3.5
20°-30°	2312.8	6.8
30°-40°	3933.7	11.5
40°-50°	6225.9	18.2
50°-60°	8255.4	24.1
60°-70°	7787.4	22.8
70°-80°	3849.7	11.3
80°-90°	296.7	0.9
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°	34197.0	100.0
0°-180°	34197.0	100.0

Coefficient of Utilization



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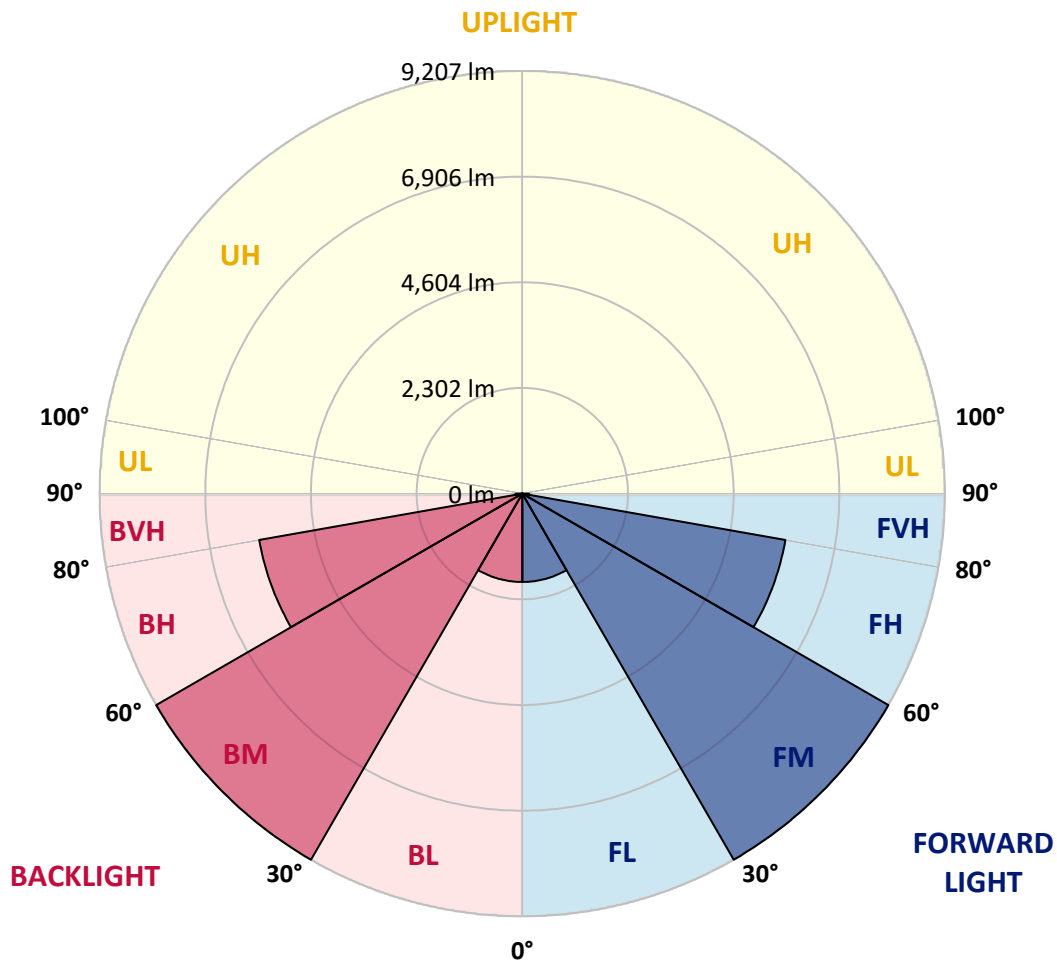
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1924.2	5.6			
FM	(30°-60°)	9207.5	26.9			
FH	(60°-80°)	5818.5	17.0			G3/7500
FVH	(80°-90°)	148.3	0.4			G2/225
BL	(0°-30°)	1924.2	5.6	B3/2500		
BM	(30°-60°)	9207.5	26.9	B5		
BH	(60°-80°)	5818.5	17.0	B5		G5
BVH	(80°-90°)	148.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8
2.5°	3563.5	3567.2	3570.8	3576.3	3583.7	3594.7	3602.0	3607.5	3622.1	3624.0	3622.1
5°	3550.7	3554.4	3563.5	3580.0	3603.8	3636.8	3662.4	3693.6	3717.4	3733.9	3730.2
7.5°	3548.9	3556.2	3570.8	3605.7	3651.5	3708.3	3766.9	3820.0	3865.8	3902.5	3897.0
10°	3578.2	3587.3	3611.1	3662.4	3733.9	3816.3	3898.8	3977.6	4043.5	4091.2	4107.7
12.5°	3627.6	3635.0	3678.9	3755.9	3858.5	3961.1	4054.5	4151.6	4243.2	4323.9	4323.9
15°	3713.7	3726.6	3781.5	3893.3	4019.7	4138.8	4234.1	4336.7	4435.6	4527.2	4554.7
17.5°	3832.8	3851.2	3933.6	4076.5	4237.7	4347.7	4437.4	4521.7	4607.8	4695.8	4708.6
20°	3995.9	4014.2	4124.1	4296.4	4486.9	4618.8	4679.3	4699.4	4741.6	4825.9	4836.9
22.5°	4217.6	4235.9	4358.7	4552.9	4765.4	4908.3	4934.0	4886.3	4875.3	4941.3	4948.6
25°	4468.6	4485.1	4626.2	4835.0	5054.9	5210.6	5203.3	5086.0	5020.1	5060.4	5071.4
27.5°	4750.7	4774.6	4917.5	5133.7	5371.8	5509.2	5487.3	5316.9	5175.8	5168.5	5172.1
30°	5111.7	5137.3	5272.9	5479.9	5714.4	5840.9	5795.1	5566.0	5348.0	5274.7	5274.7
32.5°	5492.8	5556.9	5694.3	5910.5	6093.7	6185.3	6115.7	5840.9	5551.4	5448.8	5443.3
35°	5989.3	6024.1	6159.7	6370.4	6507.8	6579.2	6445.5	6150.5	5817.0	5696.1	5679.6
37.5°	6474.8	6504.1	6661.7	6863.2	7029.9	7026.3	6844.9	6518.8	6146.8	6011.3	6000.3
40°	6971.3	7002.4	7182.0	7367.0	7533.8	7519.1	7299.2	6934.7	6538.9	6386.8	6416.2
42.5°	7401.8	7436.7	7640.0	7903.9	8054.1	8050.4	7795.8	7385.4	6973.1	6837.5	6863.2
45°	7793.9	7825.1	8061.4	8363.7	8583.6	8611.1	8332.6	7898.4	7475.1	7301.1	7308.4
47.5°	8070.6	8129.2	8376.5	8722.8	9021.5	9118.6	8845.6	8420.5	7933.2	7751.8	7762.8
50°	8281.3	8317.9	8587.2	8981.2	9358.6	9560.1	9340.3	8904.2	8391.2	8198.8	8224.5
52.5°	8306.9	8350.9	8644.0	9098.4	9582.1	9888.1	9780.0	9376.9	8858.4	8660.5	8715.5
55°	8098.1	8123.7	8473.6	9025.1	9670.0	10131.7	10159.2	9816.6	9303.6	9153.4	9190.0
57.5°	7502.6	7568.6	8011.9	8682.5	9549.1	10261.8	10443.2	10216.0	9754.3	9605.9	9664.5
60°	6526.1	6592.0	7037.3	7887.4	9092.9	10201.4	10677.7	10569.6	10162.9	10043.8	10074.9
62.5°	5113.5	5108.0	5659.5	6702.0	8186.0	9904.5	10851.8	10910.4	10566.0	10415.7	10463.4
65°	3314.3	3330.8	3864.0	4987.1	6817.4	9149.7	10890.2	11344.6	10961.7	10734.5	10769.3
66°	2665.8	2715.2	3167.8	4202.9	6119.3	8655.0	10774.8	11472.9	11082.6	10807.8	10824.3
67.5°	1967.7	1958.6	2330.5	3129.3	4886.3	7715.1	10413.9	11553.5	11220.0	10873.8	10881.1
70°	1123.1	1121.3	1253.2	1718.5	2872.8	5432.3	8777.8	11166.9	11498.5	11111.9	11091.8
72.5°	820.8	815.3	833.6	949.0	1401.6	2742.7	6055.2	9759.8	11355.6	11073.5	11016.7
75°	688.9	685.2	681.6	696.2	786.0	1242.2	3213.6	7020.8	9853.2	10393.7	10335.1
77.5°	562.5	562.5	564.3	560.6	564.3	654.1	1332.0	3763.2	6000.3	6698.3	6861.4
80°	439.7	437.9	469.0	456.2	426.9	419.6	589.9	1211.0	1991.5	1980.5	1634.3
82.5°	324.3	302.3	357.3	348.1	315.1	267.5	344.4	516.7	665.1	432.4	320.6
85°	205.2	203.4	252.8	230.8	192.4	126.4	164.9	221.7	274.8	166.7	135.6
87.5°	36.6	34.8	80.6	58.6	58.6	36.6	45.8	60.5	89.8	62.3	45.8
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)