

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: P457851

Luminaire Tested: **GALN-SA9B-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457851  
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-SA9B-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 44510 lumens  
Efficiency: N/A  
Efficacy: 122.3 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

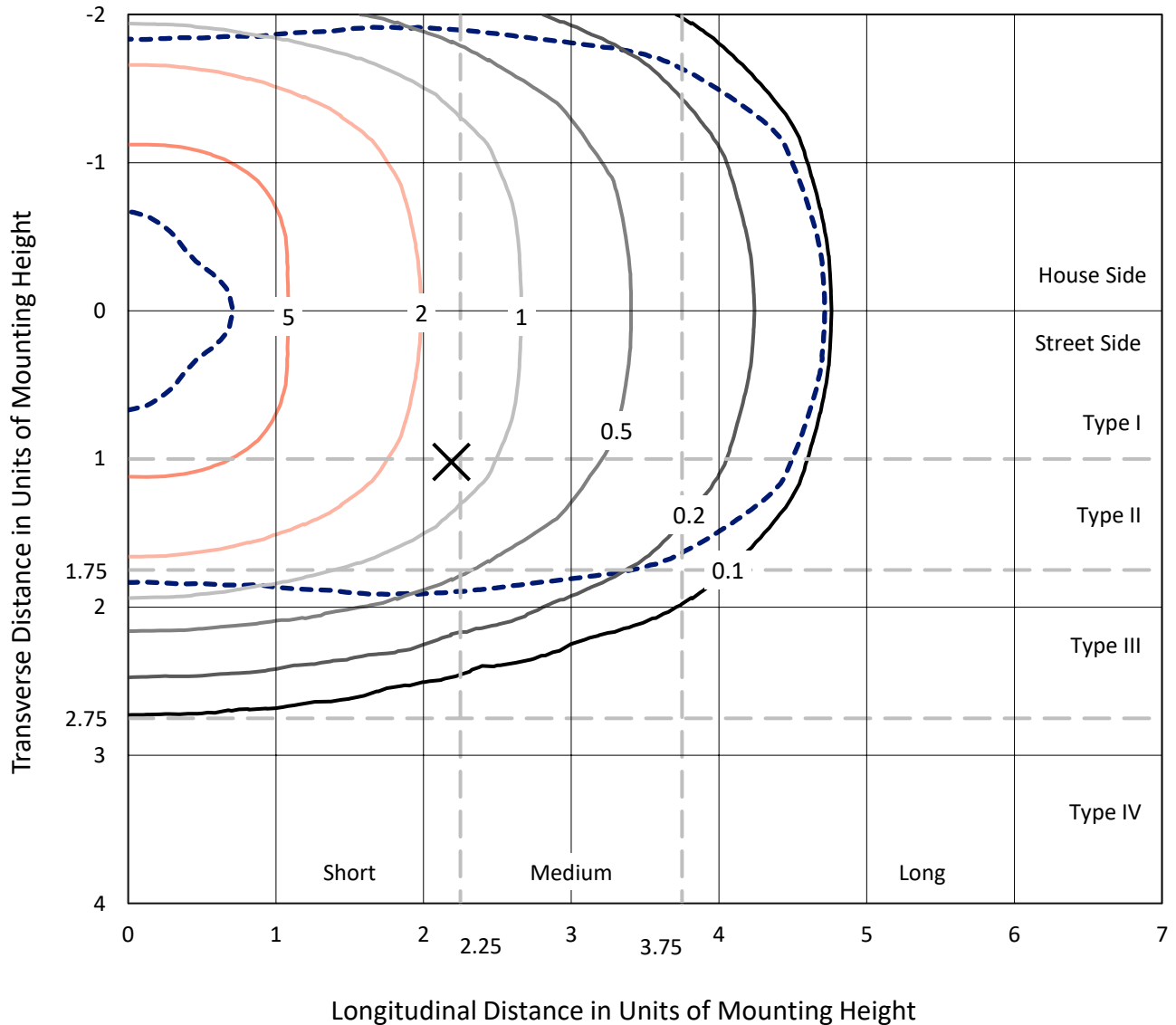
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

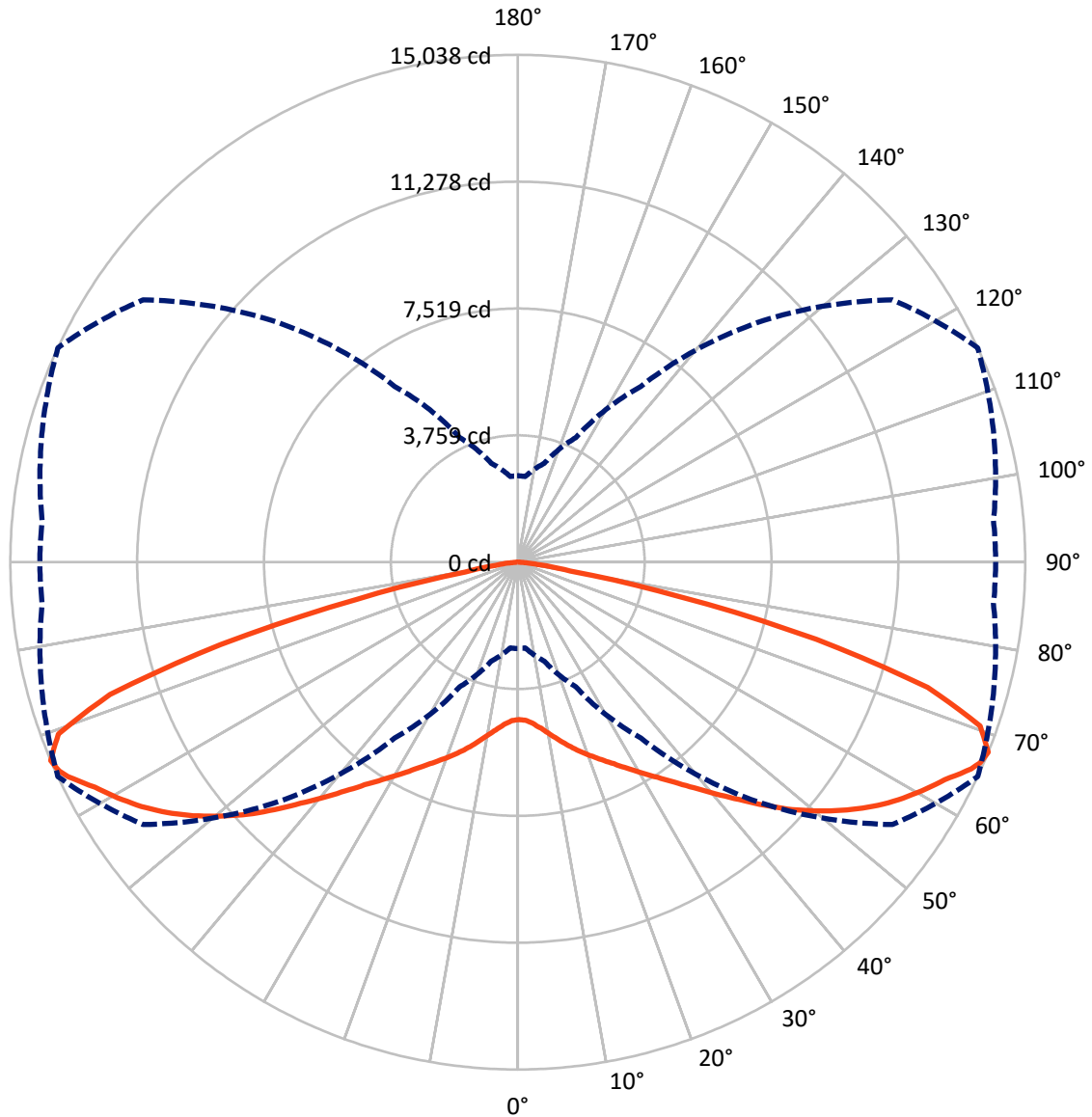
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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
<b>House Side</b>	Lumens	22255.0	0.0	22255.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22255.0	0.0	22255.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44510.0	0.0	44510.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.8	1.0
10°-20°	1538.9	3.5
20°-30°	3010.2	6.8
30°-40°	5120.0	11.5
40°-50°	8103.4	18.2
50°-60°	10745.0	24.1
60°-70°	10135.8	22.8
70°-80°	5010.7	11.3
80°-90°	386.2	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°	44510.0	100.0
0°-180°	44510.0	100.0

**Coefficient of Utilization**



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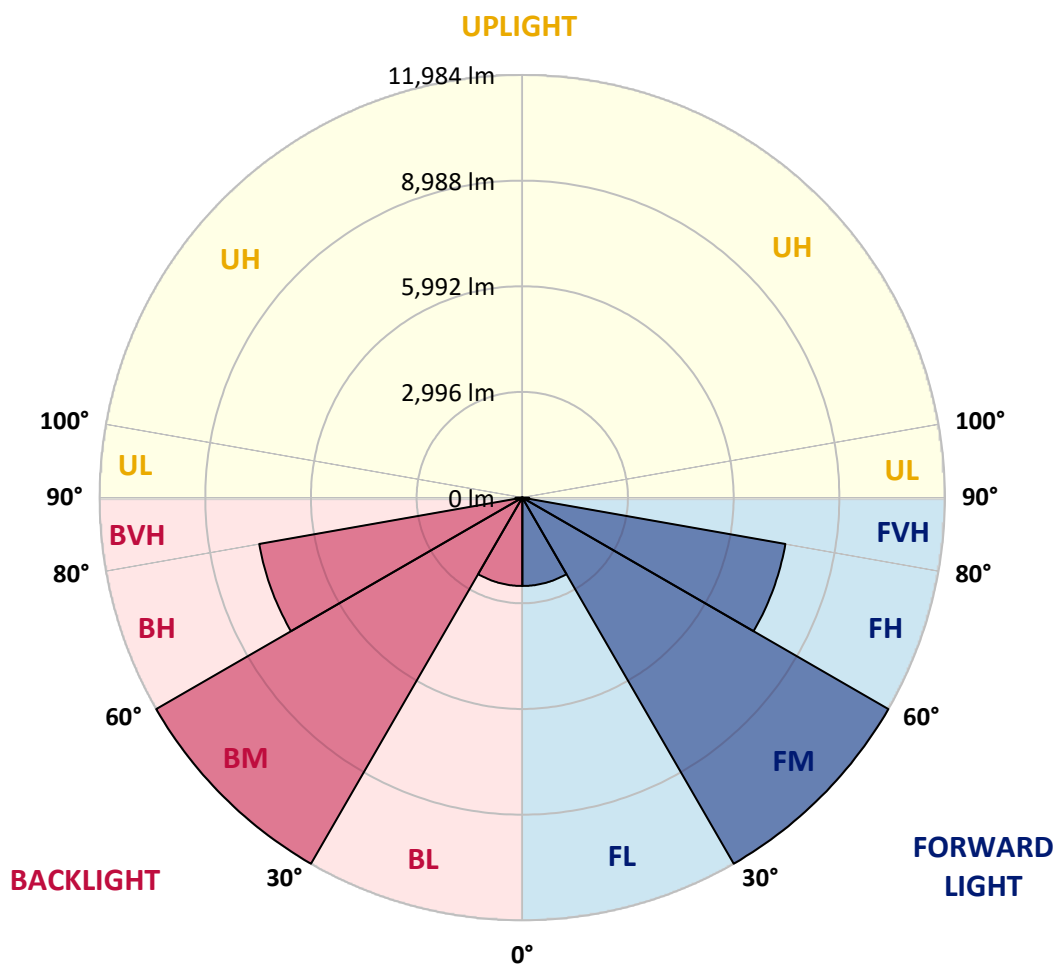
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2504.5	5.6			
FM	(30°-60°)	11984.2	26.9			
FH	(60°-80°)	7573.2	17.0			G4/12000
FVH	(80°-90°)	193.1	0.4			G2/225
BL	(0°-30°)	2504.5	5.6	B4/5000		
BM	(30°-60°)	11984.2	26.9	B5		
BH	(60°-80°)	7573.2	17.0	B5		G5
BVH	(80°-90°)	193.1	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°	4662.0	4662.0	4662.0	4662.0	4662.0	4662.0	4662.0	4662.0	4662.0	4662.0	4662.0
2.5°	4638.2	4643.0	4647.7	4654.9	4664.4	4678.7	4688.3	4695.4	4714.5	4716.9	4714.5
5°	4621.5	4626.3	4638.2	4659.6	4690.6	4733.6	4767.0	4807.5	4838.5	4860.0	4855.2
7.5°	4619.1	4628.6	4647.7	4693.0	4752.6	4826.6	4902.9	4972.0	5031.7	5079.3	5072.2
10°	4657.3	4669.2	4700.2	4767.0	4860.0	4967.3	5074.6	5177.1	5263.0	5325.0	5346.4
12.5°	4721.6	4731.2	4788.4	4888.6	5022.1	5155.7	5277.3	5403.7	5522.9	5627.8	5627.8
15°	4833.7	4850.4	4922.0	5067.4	5232.0	5387.0	5511.0	5644.5	5773.3	5892.5	5928.3
17.5°	4988.7	5012.6	5119.9	5305.9	5515.7	5658.8	5775.7	5885.4	5997.4	6111.9	6128.6
20°	5201.0	5224.8	5367.9	5592.1	5840.1	6011.8	6090.4	6116.7	6171.5	6281.2	6295.5
22.5°	5489.5	5513.4	5673.1	5925.9	6202.5	6388.5	6421.9	6359.9	6345.6	6431.5	6441.0
25°	5816.2	5837.7	6021.3	6293.1	6579.3	6782.0	6772.5	6619.8	6534.0	6586.5	6600.8
27.5°	6183.4	6214.5	6400.5	6681.8	6991.9	7170.7	7142.1	6920.3	6736.7	6727.2	6731.9
30°	6653.2	6686.6	6863.1	7132.5	7437.8	7602.3	7542.7	7244.6	6960.9	6865.5	6865.5
32.5°	7149.2	7232.7	7411.6	7692.9	7931.4	8050.6	7960.0	7602.3	7225.6	7092.0	7084.9
35°	7795.5	7840.8	8017.3	8291.5	8470.3	8563.3	8389.3	8005.3	7571.3	7413.9	7392.5
37.5°	8427.4	8465.6	8670.7	8933.0	9150.0	9145.2	8909.1	8484.7	8000.6	7824.1	7809.8
40°	9073.7	9114.2	9347.9	9588.8	9805.8	9786.7	9500.5	9026.0	8510.9	8313.0	8351.1
42.5°	9634.1	9679.4	9944.1	10287.5	10483.0	10478.2	10146.8	9612.6	9076.1	8899.6	8933.0
45°	10144.4	10184.9	10492.5	10886.0	11172.2	11207.9	10845.5	10280.3	9729.5	9502.9	9512.4
47.5°	10504.5	10580.8	10902.7	11353.4	11742.1	11868.5	11513.2	10959.9	10325.6	10089.5	10103.8
50°	10778.7	10826.4	11176.9	11689.7	12180.9	12443.2	12157.0	11589.5	10921.8	10671.4	10704.8
52.5°	10812.1	10869.3	11250.9	11842.3	12471.8	12870.1	12729.4	12204.7	11529.9	11272.3	11343.9
55°	10540.2	10573.6	11029.1	11746.9	12586.3	13187.2	13223.0	12777.1	12109.4	11913.8	11961.5
57.5°	9765.2	9851.1	10428.2	11301.0	12428.9	13356.5	13592.6	13296.9	12696.0	12502.8	12579.1
60°	8494.2	8580.0	9159.5	10266.0	11835.1	13277.8	13897.9	13757.2	13227.8	13072.8	13113.3
62.5°	6655.6	6648.5	7366.2	8723.1	10654.7	12891.5	14124.4	14200.7	13752.4	13556.8	13618.9
65°	4313.9	4335.3	5029.3	6491.1	8873.4	11909.0	14174.5	14765.9	14267.5	13971.8	14017.1
66°	3469.7	3534.1	4123.1	5470.4	7964.8	11265.2	14024.2	14932.8	14424.9	14067.2	14088.6
67.5°	2561.1	2549.2	3033.3	4073.0	6359.9	10041.8	13554.5	15037.7	14603.7	14153.0	14162.6
70°	1461.8	1459.4	1631.1	2236.8	3739.2	7070.5	11425.0	14534.6	14966.2	14463.0	14436.8
72.5°	1068.3	1061.2	1085.0	1235.3	1824.3	3569.9	7881.3	12703.1	14780.2	14412.9	14339.0
75°	896.6	891.9	887.1	906.2	1023.0	1616.8	4182.7	9138.1	12824.8	13528.2	13451.9
77.5°	732.1	732.1	734.5	729.7	734.5	851.3	1733.7	4898.1	7809.8	8718.4	8930.6
80°	572.3	569.9	610.5	593.8	555.6	546.1	767.9	1576.3	2592.1	2577.8	2127.1
82.5°	422.1	393.5	465.0	453.1	410.2	348.2	448.3	672.5	865.6	562.8	417.3
85°	267.1	264.7	329.1	300.5	250.4	164.5	214.6	288.5	357.7	217.0	176.5
87.5°	47.7	45.3	104.9	76.3	76.3	47.7	59.6	78.7	116.8	81.1	59.6
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)