

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: P457619

Luminaire Tested: **GALN-SA9A-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457619  
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-SA9A-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35772 lumens  
Efficiency: N/A  
Efficacy: 130.6 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): 274  
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

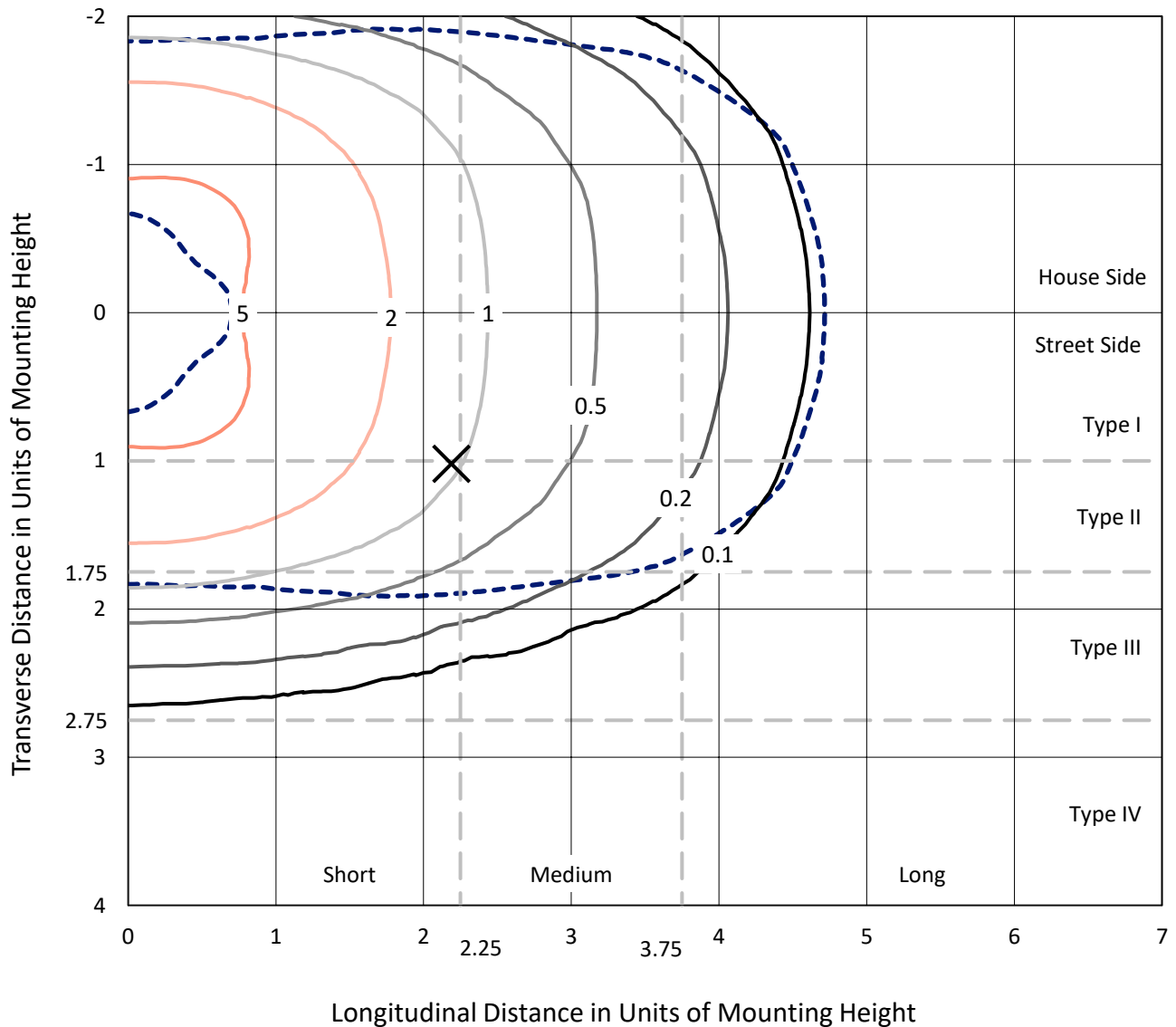




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### Iso-Footcandle Lines of Horizontal Illumination

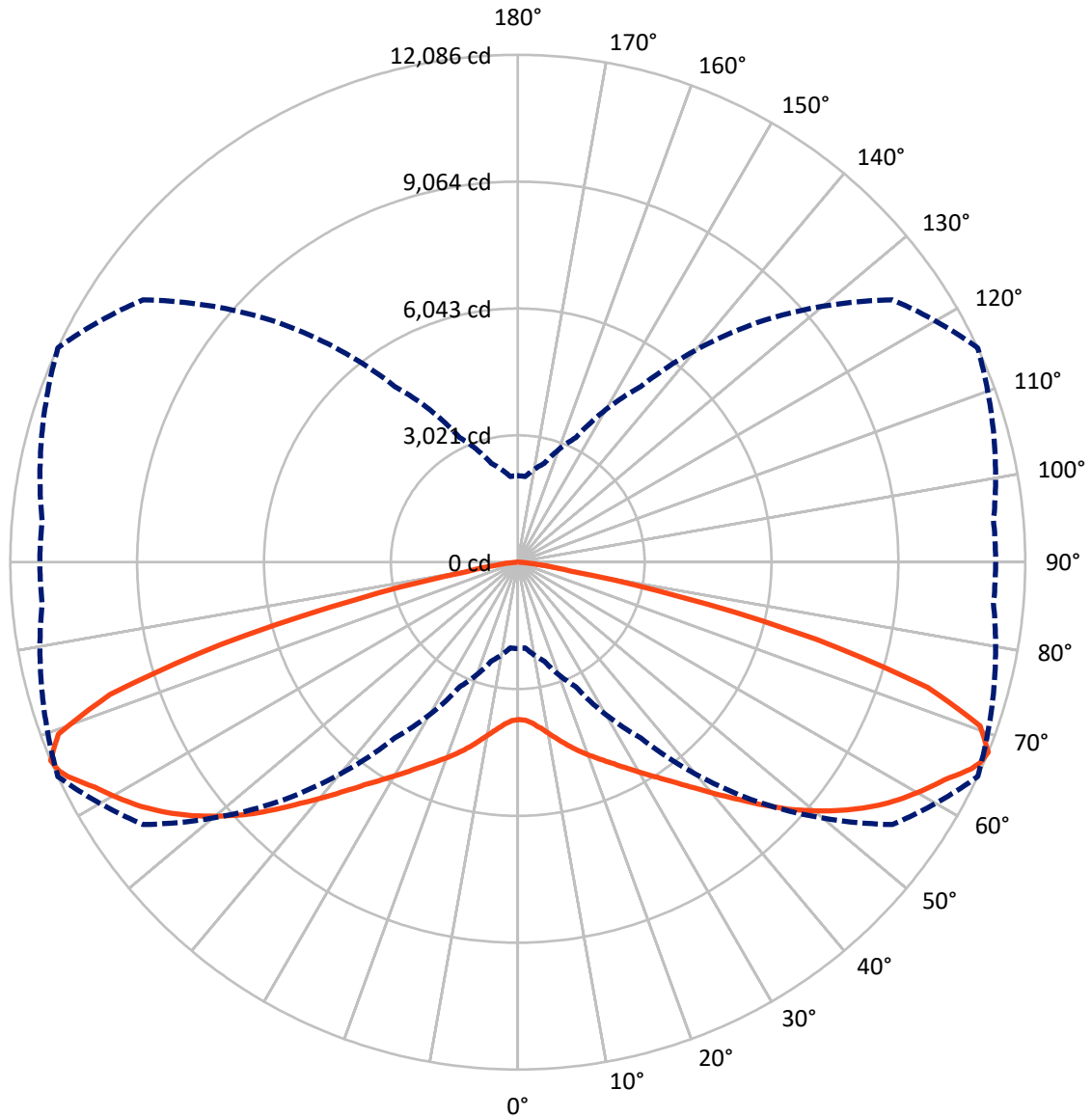
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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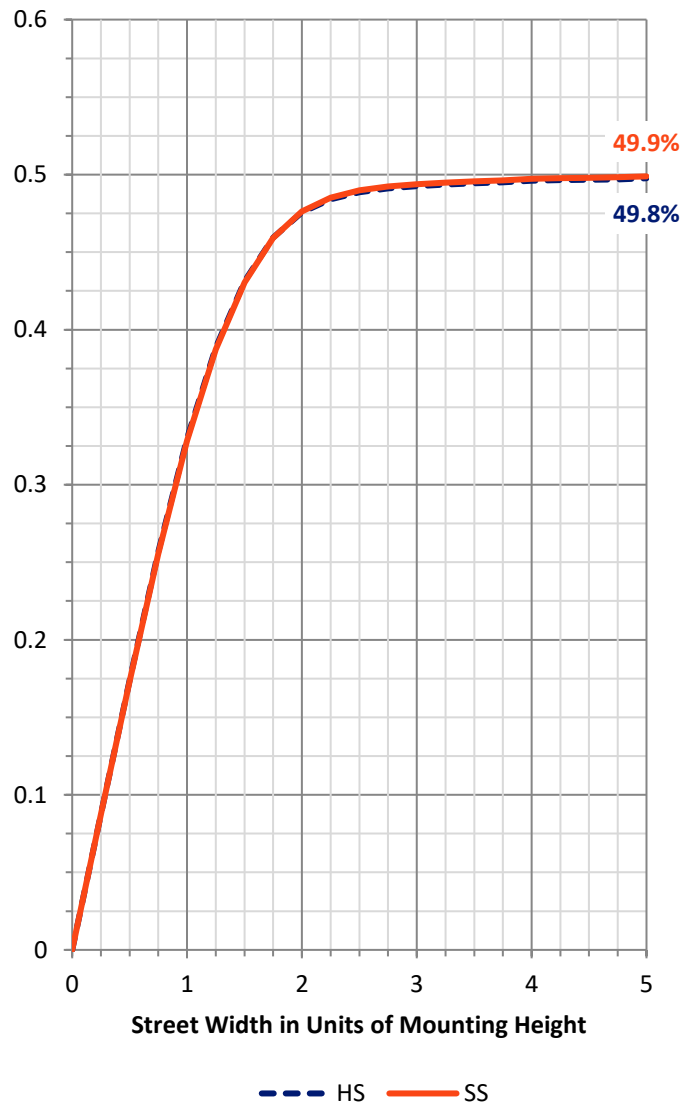
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17886.0	0.0	17886.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17886.0	0.0	17886.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35772.0	0.0	35772.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.5	1.0
10°-20°	1236.8	3.5
20°-30°	2419.3	6.8
30°-40°	4114.9	11.5
40°-50°	6512.6	18.2
50°-60°	8635.6	24.1
60°-70°	8146.0	22.8
70°-80°	4027.0	11.3
80°-90°	310.3	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°	35772.0	100.0
0°-180°	35772.0	100.0



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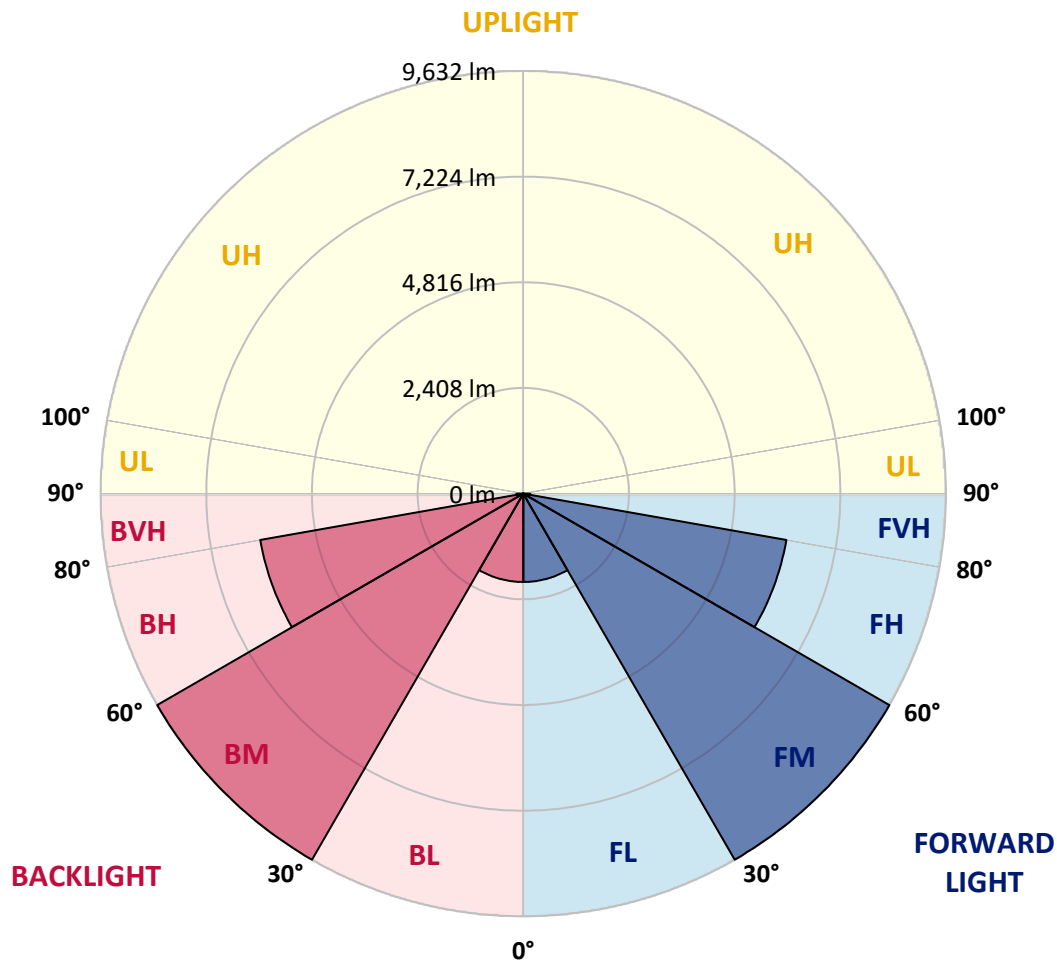
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2012.8	5.6			
FM	(30°-60°)	9631.5	26.9			
FH	(60°-80°)	6086.5	17.0			G3/7500
FVH	(80°-90°)	155.2	0.4			G2/225
BL	(0°-30°)	2012.8	5.6	B3/2500		
BM	(30°-60°)	9631.5	26.9	B5		
BH	(60°-80°)	6086.5	17.0	B5		G5
BVH	(80°-90°)	155.2	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°	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8
2.5°	3727.6	3731.5	3735.3	3741.1	3748.7	3760.2	3767.9	3773.6	3789.0	3790.9	3789.0
5°	3714.2	3718.1	3727.6	3744.9	3769.8	3804.3	3831.1	3863.7	3888.6	3905.9	3902.0
7.5°	3712.3	3720.0	3735.3	3771.7	3819.6	3879.0	3940.4	3995.9	4043.9	4082.2	4076.4
10°	3743.0	3752.6	3777.5	3831.1	3905.9	3992.1	4078.4	4160.8	4229.8	4279.6	4296.8
12.5°	3794.7	3802.4	3848.4	3928.9	4036.2	4143.5	4241.3	4342.8	4438.7	4523.0	4523.0
15°	3884.8	3898.2	3955.7	4072.6	4204.9	4329.4	4429.1	4536.4	4639.9	4735.7	4764.5
17.5°	4009.4	4028.5	4114.8	4264.3	4432.9	4547.9	4641.8	4730.0	4820.1	4912.0	4925.5
20°	4179.9	4199.1	4314.1	4494.2	4693.6	4831.6	4894.8	4915.9	4960.0	5048.1	5059.6
22.5°	4411.8	4431.0	4559.4	4762.6	4984.9	5134.4	5161.2	5111.4	5099.9	5168.9	5176.5
25°	4674.4	4691.6	4839.2	5057.7	5287.7	5450.6	5442.9	5320.3	5251.3	5293.4	5304.9
27.5°	4969.5	4994.5	5143.9	5370.1	5619.2	5763.0	5740.0	5561.7	5414.2	5406.5	5410.3
30°	5347.1	5373.9	5515.8	5732.3	5977.6	6109.9	6062.0	5822.4	5594.3	5517.7	5517.7
32.5°	5745.7	5812.8	5956.6	6182.7	6374.4	6470.2	6397.4	6109.9	5807.1	5699.7	5694.0
35°	6265.1	6301.5	6443.3	6663.7	6807.5	6882.2	6742.3	6433.8	6085.0	5958.5	5941.2
37.5°	6773.0	6803.7	6968.5	7179.3	7353.7	7349.9	7160.1	6819.0	6429.9	6288.1	6276.6
40°	7292.4	7324.9	7512.8	7706.3	7880.7	7865.4	7635.4	7254.0	6840.1	6681.0	6711.7
42.5°	7742.8	7779.2	7991.9	8267.9	8425.0	8421.2	8154.8	7725.5	7294.3	7152.5	7179.3
45°	8152.9	8185.5	8432.7	8748.9	8978.9	9007.7	8716.3	8262.1	7819.4	7637.3	7645.0
47.5°	8442.3	8503.6	8762.3	9124.6	9437.0	9538.5	9253.0	8808.3	8298.5	8108.8	8120.3
50°	8662.7	8701.0	8982.7	9394.8	9789.6	10000.4	9770.4	9314.3	8777.7	8576.4	8603.3
52.5°	8689.5	8735.5	9042.2	9517.5	10023.4	10343.5	10230.4	9808.8	9266.4	9059.4	9116.9
55°	8471.0	8497.9	8863.9	9440.8	10115.4	10598.4	10627.1	10268.7	9732.1	9574.9	9613.3
57.5°	7848.2	7917.2	8381.0	9082.4	9988.9	10734.4	10924.2	10686.5	10203.6	10048.3	10109.7
60°	6826.7	6895.6	7361.4	8250.6	9511.7	10671.2	11169.5	11056.4	10631.0	10506.4	10539.0
62.5°	5349.0	5343.3	5920.1	7010.6	8563.0	10360.7	11351.6	11412.9	11052.6	10895.4	10945.3
65°	3467.0	3484.2	4041.9	5216.8	7131.4	9571.1	11391.8	11867.1	11466.6	11228.9	11265.3
66°	2788.5	2840.3	3313.7	4396.5	6401.2	9053.7	11271.1	12001.3	11593.0	11305.6	11322.8
67.5°	2058.3	2048.8	2437.8	3273.4	5111.4	8070.5	10893.5	12085.6	11736.8	11374.6	11382.2
70°	1174.8	1172.9	1310.9	1797.7	3005.1	5682.5	9182.1	11681.2	12028.1	11623.7	11602.6
72.5°	858.6	852.9	872.0	992.8	1466.1	2869.0	6334.1	10209.3	11878.6	11583.5	11524.0
75°	720.6	716.8	712.9	728.3	822.2	1299.4	3361.6	7344.1	10307.1	10872.4	10811.1
77.5°	588.4	588.4	590.3	586.5	590.3	684.2	1393.3	3936.5	6276.6	7006.8	7177.4
80°	460.0	458.0	490.6	477.2	446.5	438.9	617.1	1266.8	2083.3	2071.8	1709.5
82.5°	339.2	316.2	373.7	364.1	329.6	279.8	360.3	540.5	695.7	452.3	335.4
85°	214.7	212.7	264.5	241.5	201.2	132.2	172.5	231.9	287.5	174.4	141.8
87.5°	38.3	36.4	84.3	61.3	61.3	38.3	47.9	63.2	93.9	65.2	47.9
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)