

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: P457616

Luminaire Tested: **GALN-SA9A-727-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
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-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36287 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

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

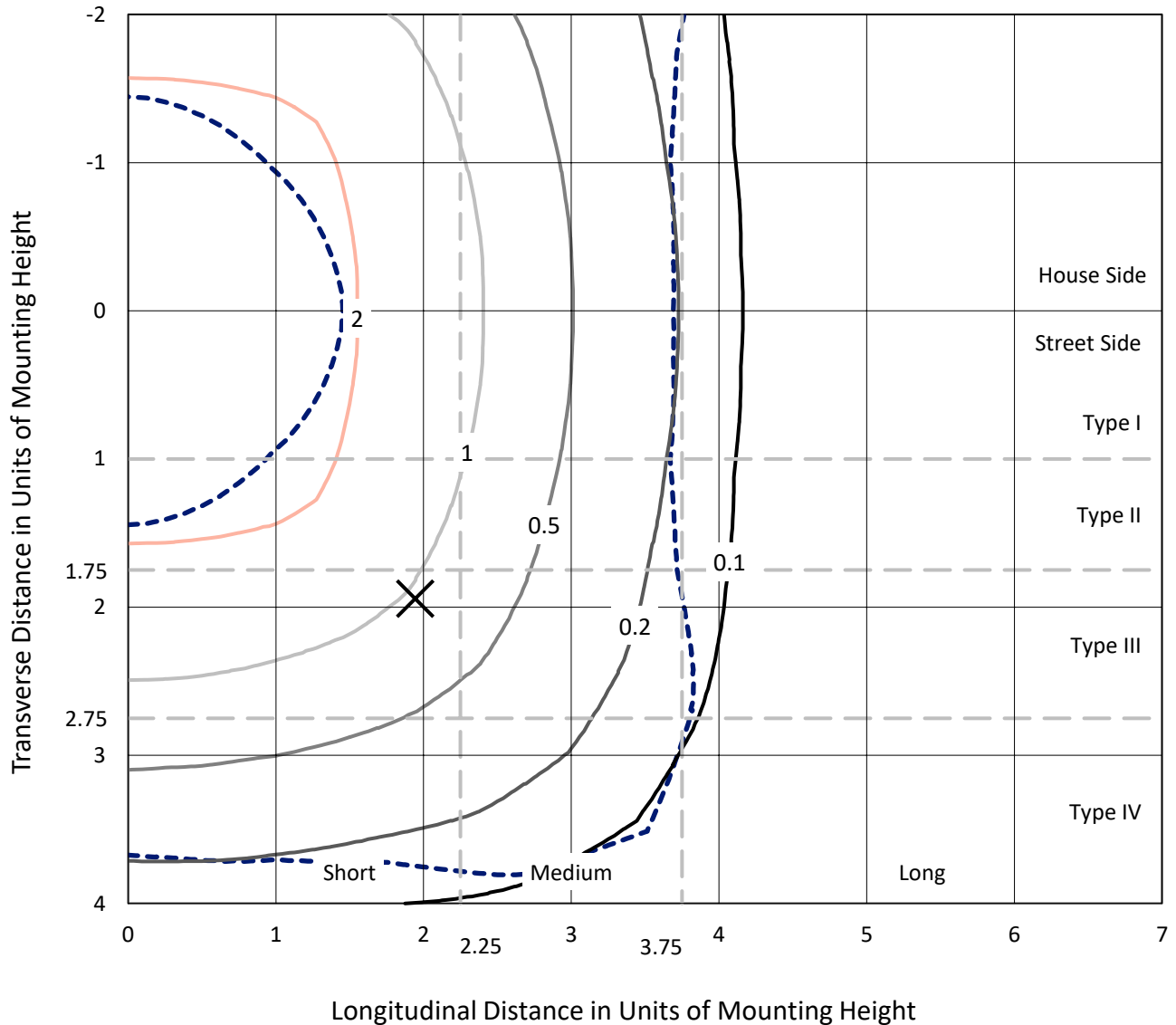




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### Iso-Footcandle Lines of Horizontal Illumination

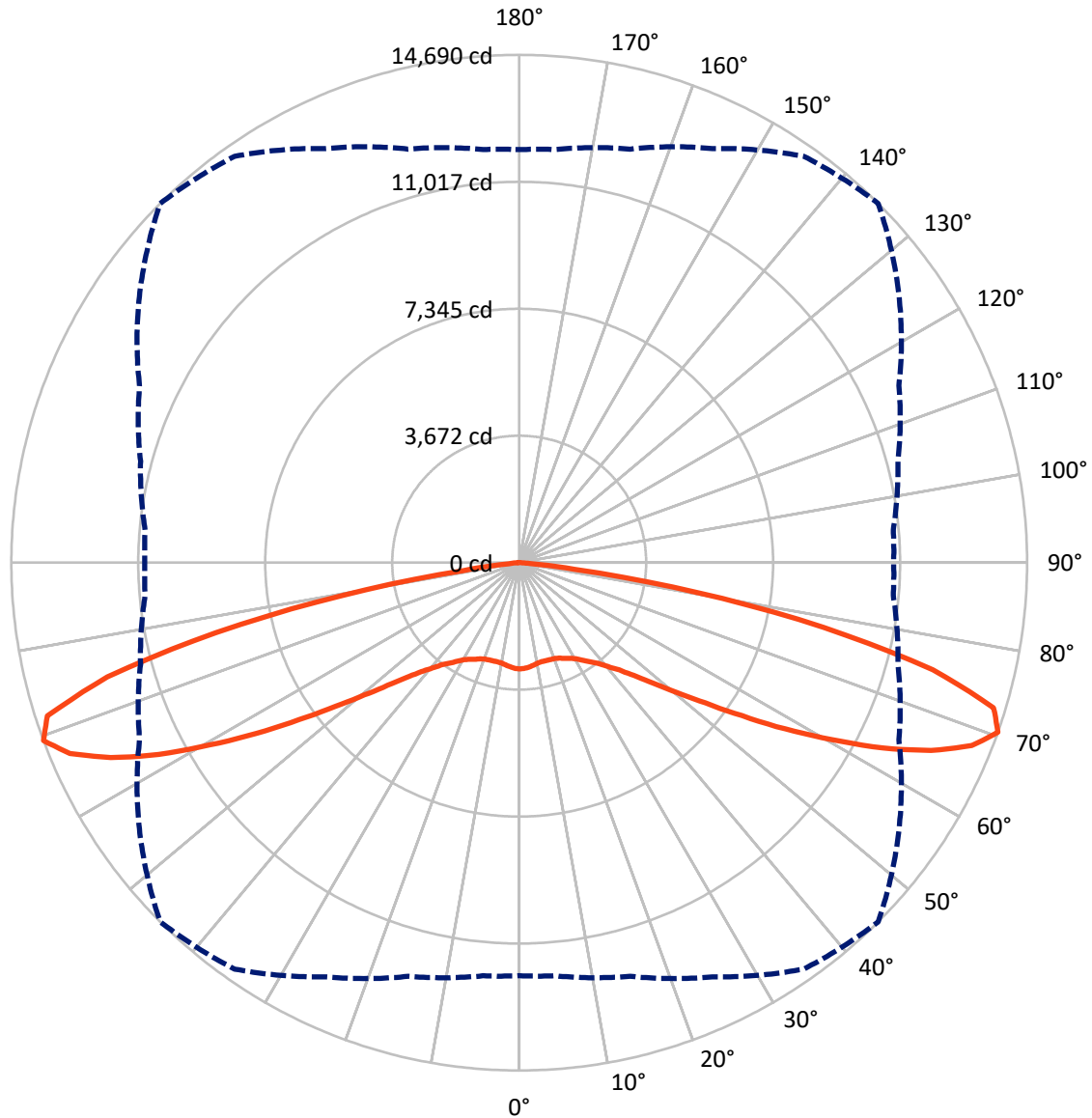
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18143.5	0.0	18143.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18143.5	0.0	18143.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36287.0	0.0	36287.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.3	0.8
10°-20°	841.1	2.3
20°-30°	1433.0	3.9
30°-40°	2221.2	6.1
40°-50°	3738.6	10.3
50°-60°	6802.1	18.7
60°-70°	11515.9	31.7
70°-80°	8913.7	24.6
80°-90°	534.1	1.5
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°	36287.0	100.0
0°-180°	36287.0	100.0



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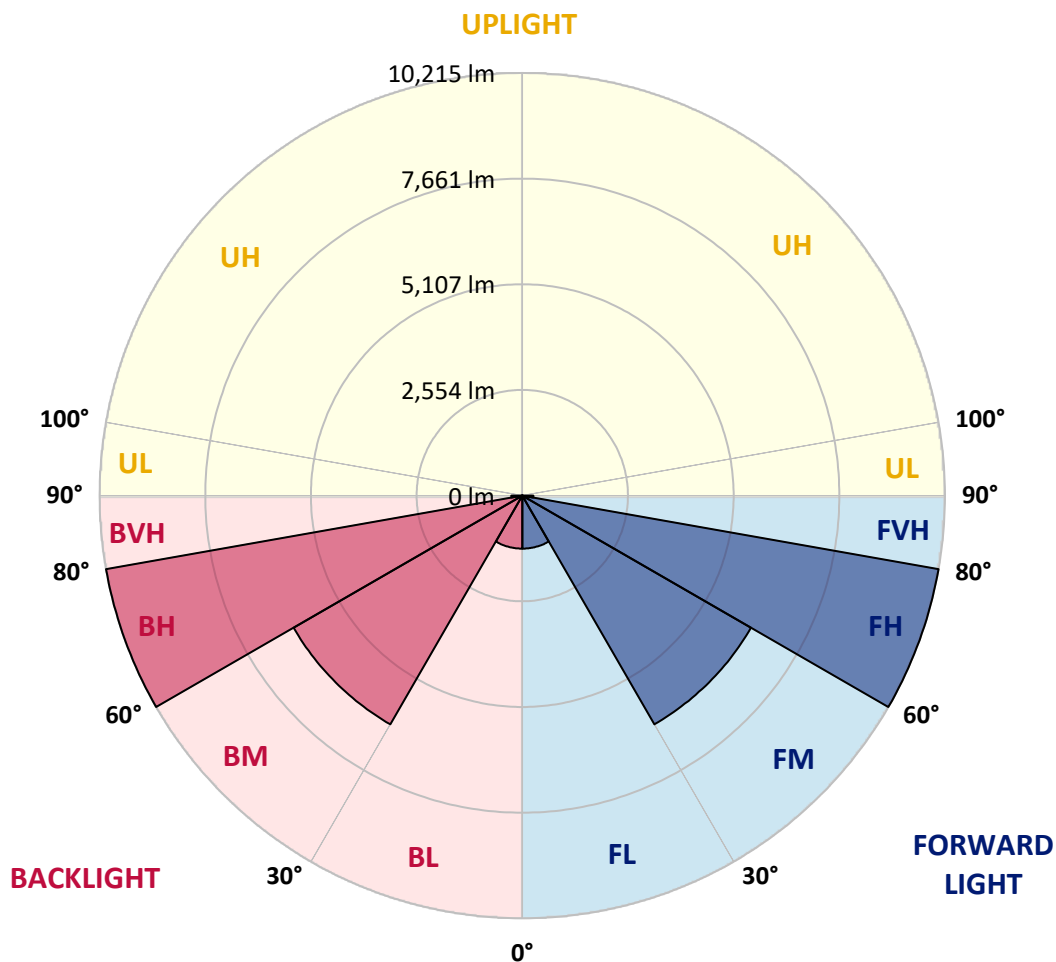
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.7	3.5			
FM (30°-60°)	6380.9	17.6			
FH (60°-80°)	10214.8	28.1			G4/12000
FVH (80°-90°)	267.1	0.7			G3/500
BL (0°-30°)	1280.7	3.5	B3/2500		
BM (30°-60°)	6380.9	17.6	B4/8500		
BH (60°-80°)	10214.8	28.1	B5		G4/12000
BVH (80°-90°)	267.1	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1
2.5°	3064.5	3066.4	3066.4	3062.6	3060.6	3060.6	3058.7	3058.7	3064.5	3066.4	3068.3
5°	3037.6	3037.6	3037.6	3035.7	3031.9	3031.9	3028.1	3028.1	3030.0	3035.7	3031.9
7.5°	3001.2	3005.1	3005.1	2997.4	2991.6	2991.6	2989.7	2991.6	2993.6	2999.3	2997.4
10°	2989.7	2991.6	2982.1	2968.6	2959.1	2953.3	2955.2	2959.1	2968.6	2972.5	2974.4
12.5°	2997.4	2997.4	2980.1	2961.0	2943.7	2936.1	2934.2	2947.6	2964.8	2976.3	2980.1
15°	3007.0	3003.1	2982.1	2957.1	2939.9	2938.0	2936.1	2945.7	2970.6	2993.6	2995.5
17.5°	3012.7	3010.8	2984.0	2953.3	2943.7	2943.7	2941.8	2949.5	2976.3	3005.1	3007.0
20°	3031.9	3026.1	2995.5	2962.9	2955.2	2959.1	2953.3	2962.9	2991.6	3026.1	3033.8
22.5°	3070.2	3064.5	3033.8	3001.2	2997.4	2997.4	2995.5	3005.1	3035.7	3072.1	3077.9
25°	3116.2	3110.5	3081.7	3058.7	3062.6	3070.2	3066.4	3068.3	3093.2	3123.9	3133.5
27.5°	3177.5	3168.0	3143.0	3123.9	3135.4	3135.4	3135.4	3133.5	3148.8	3177.5	3187.1
30°	3252.3	3248.5	3221.6	3219.7	3229.3	3219.7	3219.7	3221.6	3223.5	3250.4	3260.0
32.5°	3350.0	3342.4	3328.9	3325.1	3351.9	3359.6	3332.8	3307.9	3321.3	3348.1	3353.9
35°	3511.0	3499.5	3480.4	3459.3	3480.4	3516.8	3459.3	3440.1	3474.6	3511.0	3514.8
37.5°	3729.5	3723.7	3693.1	3654.8	3652.8	3691.2	3631.8	3629.8	3695.0	3739.1	3744.8
40°	4003.6	4009.3	3971.0	3934.6	3915.4	3946.1	3900.1	3917.3	3980.6	4030.4	4026.6
42.5°	4388.8	4367.7	4308.3	4273.8	4252.7	4241.2	4229.7	4256.5	4327.4	4381.1	4423.3
45°	4839.1	4831.5	4756.7	4714.6	4668.6	4651.3	4647.5	4695.4	4781.7	4846.8	4852.6
47.5°	5348.9	5331.7	5283.8	5239.7	5222.4	5201.4	5182.2	5218.6	5304.9	5350.8	5364.3
50°	5874.1	5877.9	5877.9	5870.2	5887.5	5891.3	5839.6	5853.0	5900.9	5897.1	5893.2
52.5°	6473.9	6495.0	6594.7	6604.2	6686.6	6742.2	6648.3	6592.7	6575.5	6472.0	6479.7
55°	7179.2	7198.3	7347.8	7497.3	7719.6	7813.5	7616.1	7443.7	7321.0	7163.9	7171.5
57.5°	8058.9	8068.4	8210.3	8497.7	8850.4	9070.8	8723.9	8382.7	8133.6	7984.1	7924.7
60°	9005.6	9015.2	9222.2	9572.9	10121.0	10389.3	9960.0	9402.3	9088.0	8859.9	8875.3
62.5°	10142.1	10180.4	10366.3	10849.3	11514.3	11815.2	11246.0	10500.5	10075.0	9791.4	9802.9
65°	11359.1	11424.2	11627.4	12158.2	12771.5	13095.4	12397.8	11537.3	11008.3	10661.5	10697.9
67.5°	12148.7	12206.1	12499.4	13085.8	13850.5	14118.8	13218.1	12215.7	11554.5	11140.6	11063.9
70°	11947.4	11995.3	12386.3	13218.1	14350.7	14689.9	13413.5	12116.1	11338.0	10860.8	10830.1
72.5°	10546.5	10446.8	11017.9	12211.9	13779.6	14348.8	12798.3	11065.8	10086.5	9595.9	9538.4
75°	6989.5	7206.0	8049.3	9456.0	11658.0	12363.3	10924.0	8884.9	7652.6	7244.3	7181.1
77.5°	2336.2	2502.9	3252.3	5360.4	7947.7	9007.5	7959.2	5810.8	4110.9	3311.7	3327.0
80°	619.0	611.4	791.5	1473.8	3434.4	5216.7	3997.8	1968.2	1077.1	780.0	739.8
82.5°	222.3	249.1	320.1	408.2	910.3	1621.4	1144.1	552.0	404.4	299.0	289.4
85°	97.7	95.8	138.0	162.9	228.1	302.8	268.3	233.8	205.1	136.1	126.5
87.5°	21.1	21.1	32.6	24.9	40.2	40.2	49.8	59.4	61.3	40.2	32.6
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)