

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: P454893

Luminaire Tested: **GALN-SA6A-740-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454893  
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-SA6A-740-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27979 lumens  
Efficiency: N/A  
Efficacy: 153.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

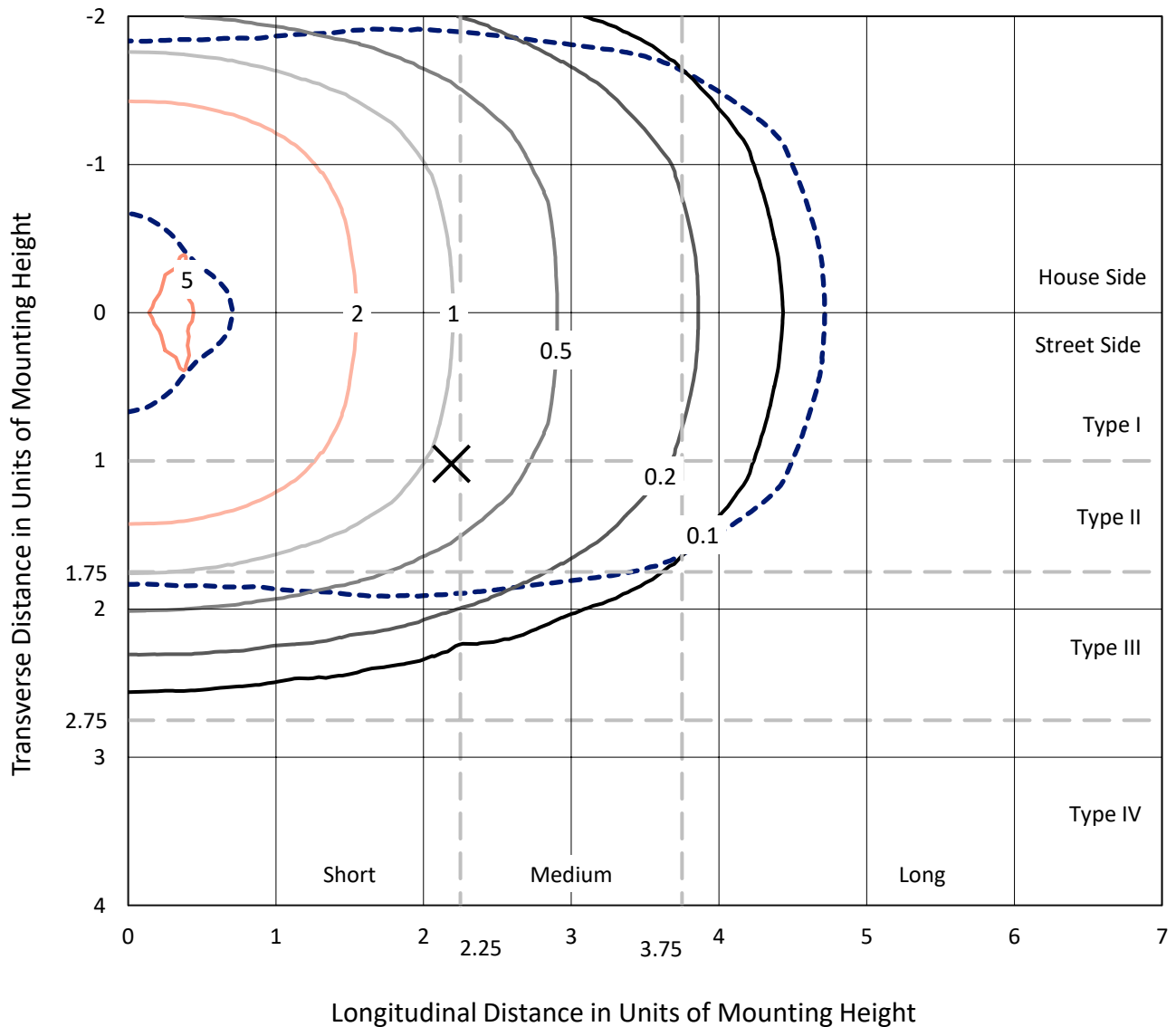
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

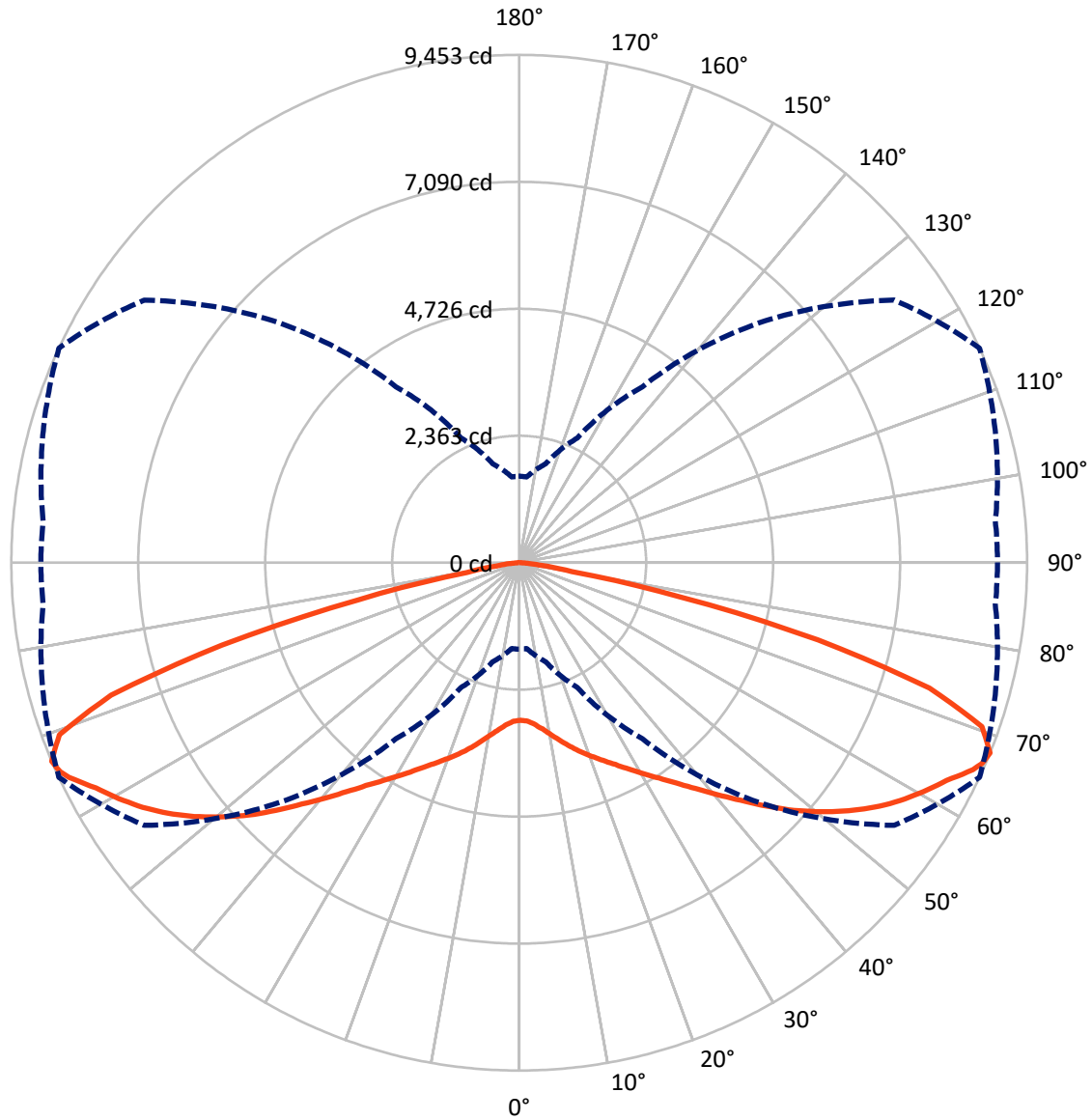
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	13989.5	0.0	13989.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13989.5	0.0	13989.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27979.0	0.0	27979.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.0	1.0
10°-20°	967.4	3.5
20°-30°	1892.2	6.8
30°-40°	3218.4	11.5
40°-50°	5093.8	18.2
50°-60°	6754.3	24.1
60°-70°	6371.4	22.8
70°-80°	3149.7	11.3
80°-90°	242.7	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°	27979.0	100.0
0°-180°	27979.0	100.0



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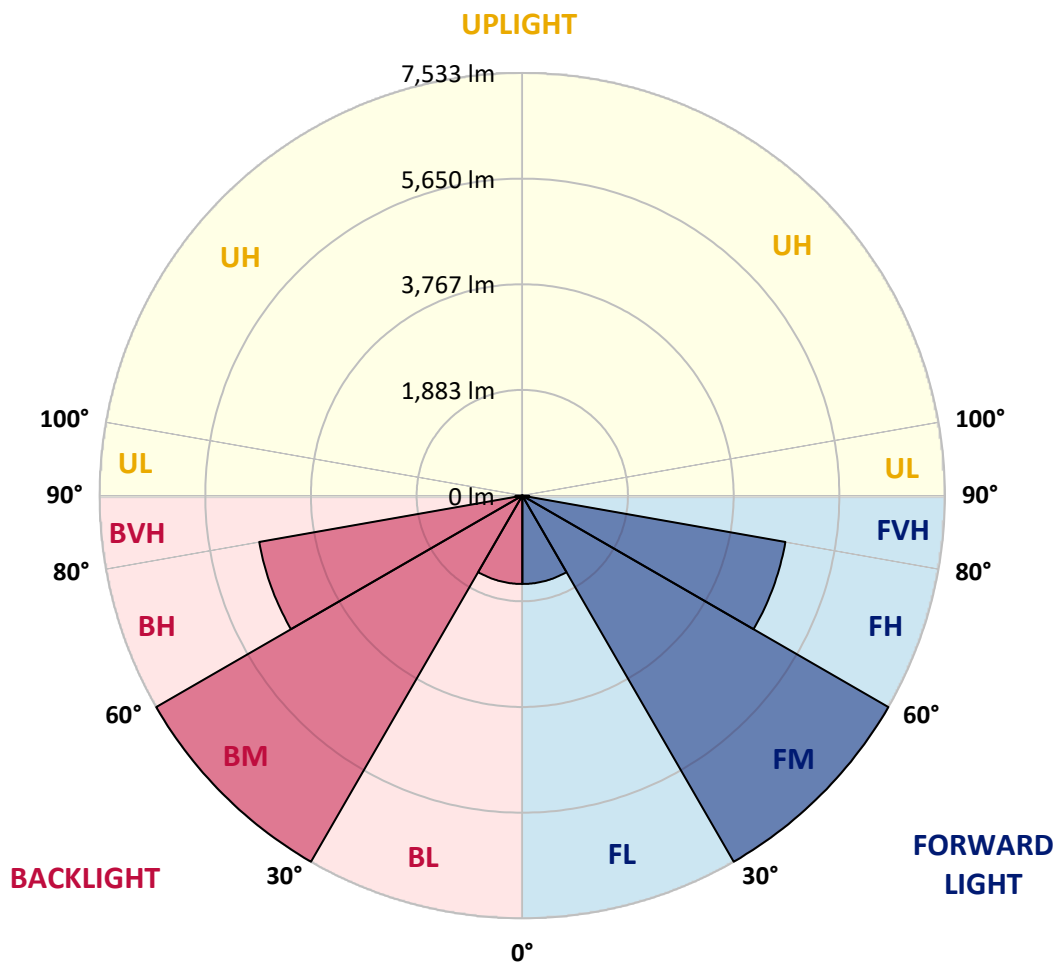
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1574.3	5.6			
FM	(30°-60°)	7533.3	26.9			
FH	(60°-80°)	4760.5	17.0			G2/5000
FVH	(80°-90°)	121.4	0.4			G2/225
BL	(0°-30°)	1574.3	5.6	B3/2500		
BM	(30°-60°)	7533.3	26.9	B4/8500		
BH	(60°-80°)	4760.5	17.0	B4/5000		G4/5000
BVH	(80°-90°)	121.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2930.6	2930.6	2930.6	2930.6	2930.6	2930.6	2930.6	2930.6	2930.6	2930.6	2930.6
2.5°	2915.6	2918.6	2921.6	2926.1	2932.1	2941.0	2947.0	2951.5	2963.5	2965.0	2963.5
5°	2905.1	2908.1	2915.6	2929.1	2948.5	2975.5	2996.5	3022.0	3041.5	3055.0	3052.0
7.5°	2903.6	2909.6	2921.6	2950.0	2987.5	3034.0	3082.0	3125.4	3162.9	3192.9	3188.4
10°	2927.6	2935.1	2954.5	2996.5	3055.0	3122.4	3189.9	3254.3	3308.3	3347.3	3360.8
12.5°	2968.0	2974.0	3010.0	3073.0	3156.9	3240.8	3317.3	3396.7	3471.7	3537.7	3537.7
15°	3038.5	3049.0	3093.9	3185.4	3288.8	3386.3	3464.2	3548.1	3629.1	3704.0	3726.5
17.5°	3135.9	3150.9	3218.4	3335.3	3467.2	3557.1	3630.6	3699.5	3770.0	3841.9	3852.4
20°	3269.3	3284.3	3374.3	3515.2	3671.1	3779.0	3828.5	3844.9	3879.4	3948.4	3957.4
22.5°	3450.7	3465.7	3566.1	3725.0	3898.9	4015.8	4036.8	3997.8	3988.9	4042.8	4048.8
25°	3656.1	3669.6	3785.0	3955.9	4135.8	4263.2	4257.2	4161.2	4107.3	4140.2	4149.2
27.5°	3886.9	3906.4	4023.3	4200.2	4395.1	4507.5	4489.5	4350.1	4234.7	4228.7	4231.7
30°	4182.2	4203.2	4314.1	4483.5	4675.4	4778.8	4741.4	4554.0	4375.6	4315.6	4315.6
32.5°	4494.0	4546.5	4658.9	4835.8	4985.7	5060.6	5003.7	4778.8	4542.0	4458.0	4453.5
35°	4900.2	4928.7	5039.7	5212.0	5324.5	5382.9	5273.5	5032.2	4759.3	4660.4	4646.9
37.5°	5297.5	5321.5	5450.4	5615.3	5751.7	5748.7	5600.3	5333.5	5029.2	4918.2	4909.2
40°	5703.7	5729.2	5876.1	6027.5	6163.9	6151.9	5972.0	5673.7	5349.9	5225.5	5249.5
42.5°	6056.0	6084.5	6250.8	6466.7	6589.6	6586.6	6378.3	6042.5	5705.2	5594.3	5615.3
45°	6376.8	6402.2	6595.6	6843.0	7022.8	7045.3	6817.5	6462.2	6115.9	5973.5	5979.5
47.5°	6603.1	6651.1	6853.4	7136.8	7381.1	7460.5	7237.2	6889.4	6490.7	6342.3	6351.3
50°	6775.5	6805.5	7025.8	7348.1	7656.9	7821.8	7641.9	7285.2	6865.4	6708.0	6729.0
52.5°	6796.5	6832.5	7072.3	7444.1	7839.8	8090.1	8001.7	7671.9	7247.7	7085.8	7130.8
55°	6625.6	6646.6	6932.9	7384.1	7911.7	8289.5	8312.0	8031.7	7611.9	7489.0	7519.0
57.5°	6138.4	6192.4	6555.1	7103.8	7812.8	8395.9	8544.3	8358.4	7980.7	7859.3	7907.2
60°	5339.5	5393.4	5757.7	6453.2	7439.6	8346.5	8736.2	8647.8	8315.0	8217.5	8243.0
62.5°	4183.7	4179.2	4630.4	5483.4	6697.6	8103.6	8878.6	8926.6	8644.8	8521.8	8560.8
65°	2711.7	2725.2	3161.4	4080.3	5577.8	7486.0	8910.1	9281.8	8968.5	8782.7	8811.1
66°	2181.1	2221.5	2591.8	3438.7	5006.7	7081.3	8815.6	9386.8	9067.5	8842.6	8856.1
67.5°	1609.9	1602.4	1906.7	2560.3	3997.8	6312.3	8520.3	9452.7	9179.9	8896.6	8902.6
70°	918.9	917.4	1025.3	1406.1	2350.4	4444.5	7181.7	9136.4	9407.8	9091.5	9075.0
72.5°	671.6	667.1	682.0	776.5	1146.7	2244.0	4954.2	7985.2	9290.8	9060.0	9013.5
75°	563.6	560.6	557.6	569.6	643.1	1016.3	2629.3	5744.2	8061.6	8503.9	8455.9
77.5°	460.2	460.2	461.7	458.7	461.7	535.1	1089.8	3079.0	4909.2	5480.4	5613.8
80°	359.8	358.3	383.7	373.3	349.3	343.3	482.7	990.8	1629.4	1620.4	1337.1
82.5°	265.3	247.3	292.3	284.8	257.8	218.9	281.8	422.7	544.1	353.8	262.3
85°	167.9	166.4	206.9	188.9	157.4	103.4	134.9	181.4	224.9	136.4	110.9
87.5°	30.0	28.5	66.0	48.0	48.0	30.0	37.5	49.5	73.5	51.0	37.5
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)