

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: P459093

Luminaire Tested: **GALN-SA6A-735-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26495 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

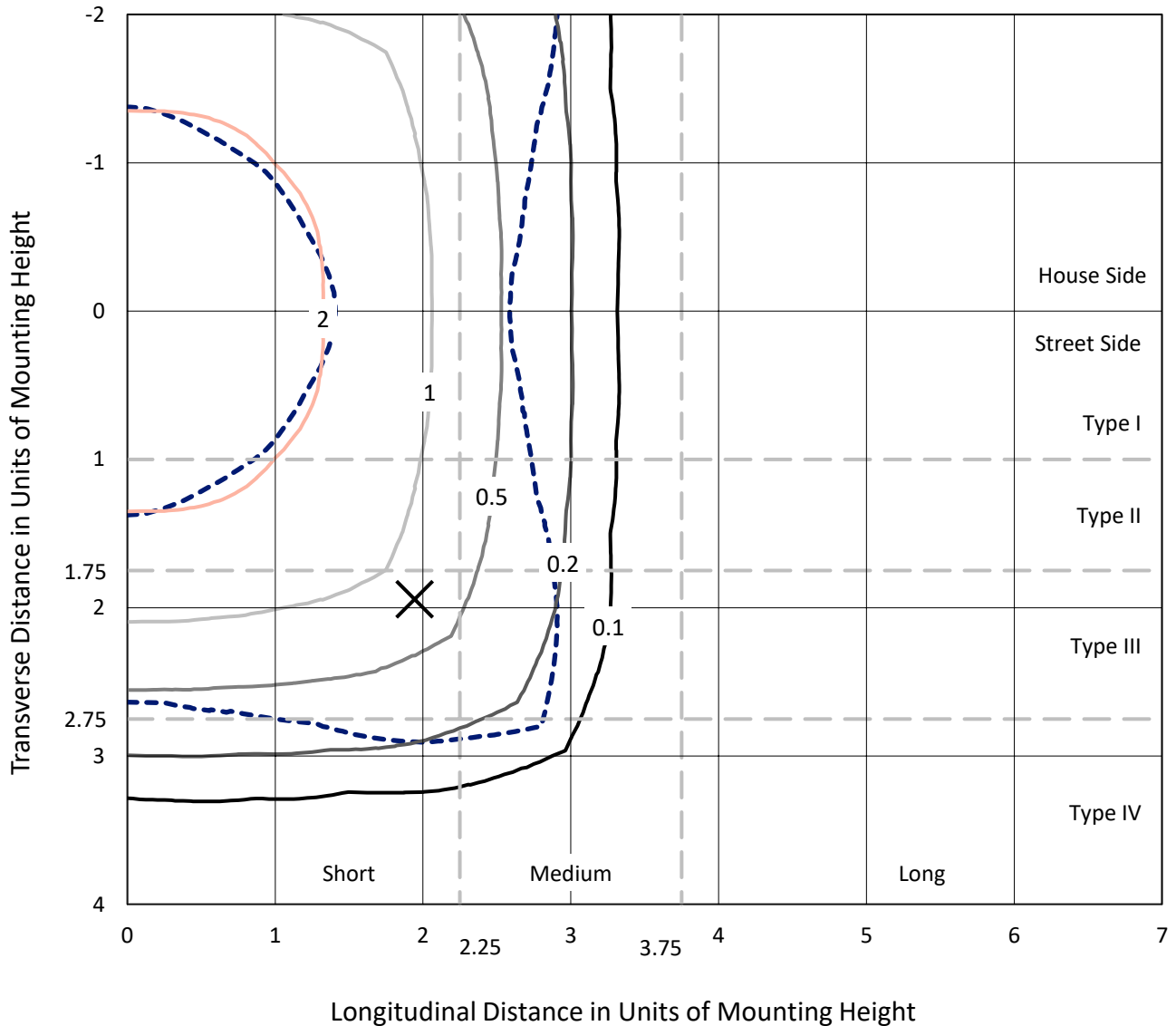
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

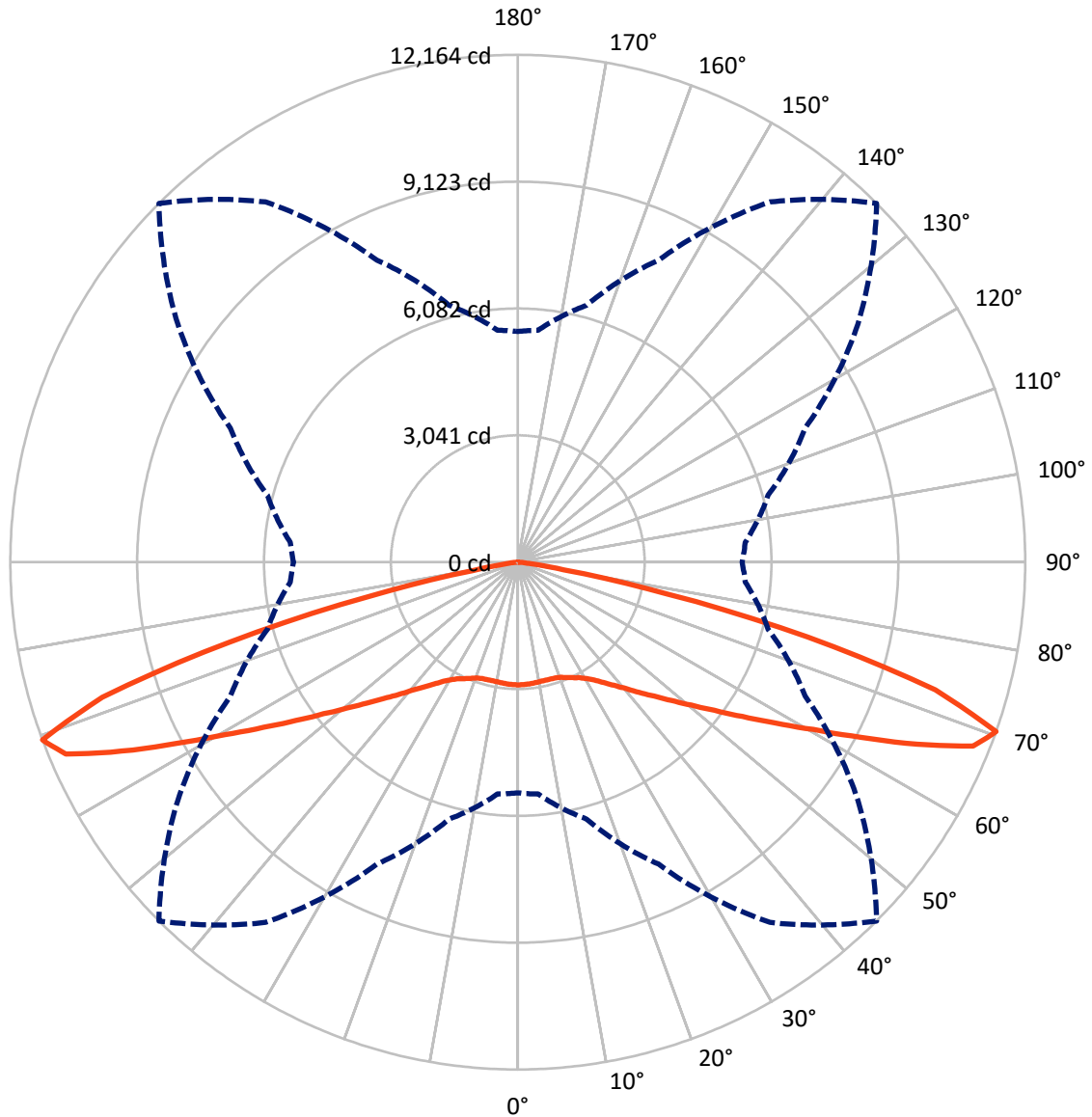
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	13247.5	0.0	13247.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13247.5	0.0	13247.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26495.0	0.0	26495.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.0	1.1
10°-20°	818.7	3.1
20°-30°	1400.2	5.3
30°-40°	2222.5	8.4
40°-50°	3585.4	13.5
50°-60°	5833.6	22.0
60°-70°	8456.6	31.9
70°-80°	3751.0	14.2
80°-90°	147.9	0.6
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°	26495.0	100.0
0°-180°	26495.0	100.0

**Coefficient of Utilization**



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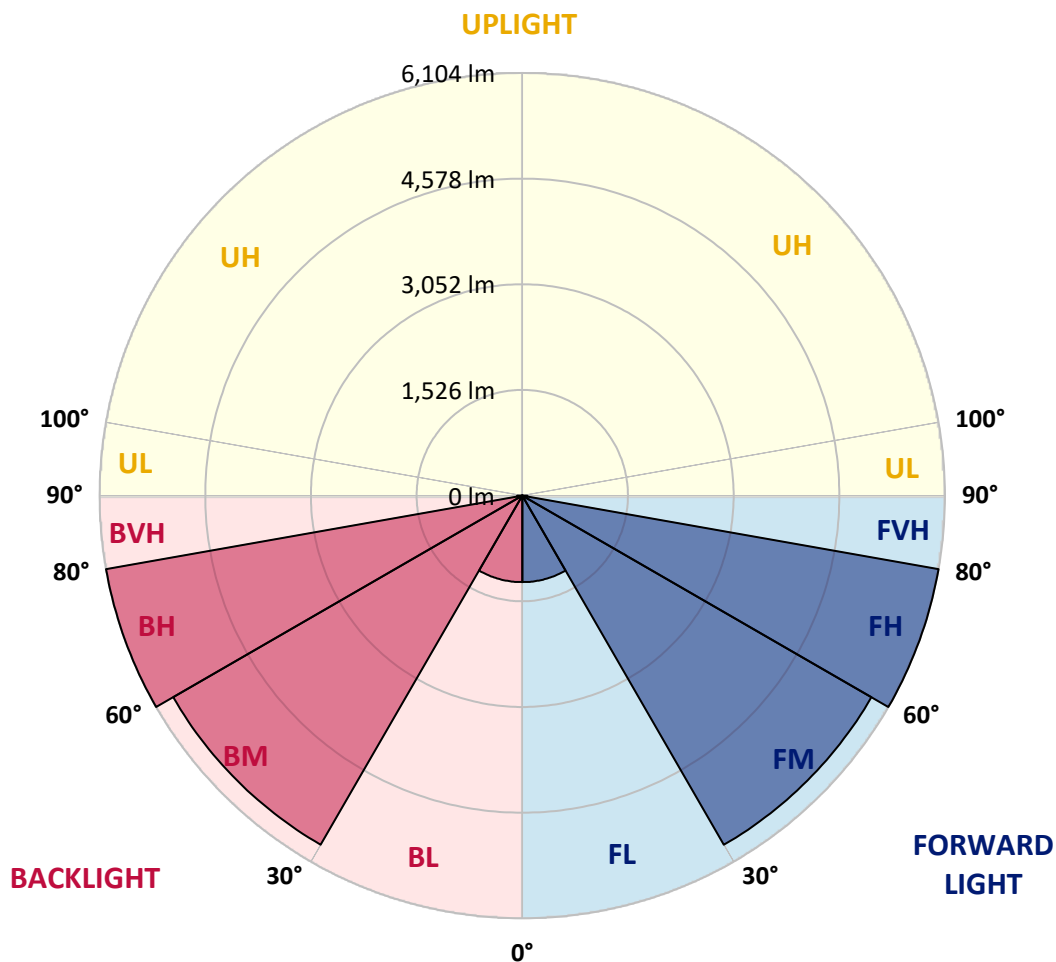
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.0	4.7			
FM (30°-60°)	5820.7	22.0			
FH (60°-80°)	6103.8	23.0			G3/7500
FVH (80°-90°)	74.0	0.3			G1/100
BL (0°-30°)	1249.0	4.7	B3/2500		
BM (30°-60°)	5820.7	22.0	B4/8500		
BH (60°-80°)	6103.8	23.0	B5		G3/7500
BVH (80°-90°)	74.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2942.1	2942.1	2942.1	2942.1	2942.1	2942.1	2942.1	2942.1	2942.1	2942.1	2942.1
2.5°	2942.1	2944.9	2940.7	2938.0	2936.6	2936.6	2935.2	2936.6	2944.9	2946.3	2942.1
5°	2933.8	2936.6	2935.2	2932.4	2931.0	2931.0	2929.6	2928.2	2935.2	2938.0	2936.6
7.5°	2922.6	2924.0	2922.6	2921.2	2922.6	2921.2	2917.0	2914.2	2919.8	2919.8	2918.4
10°	2903.0	2905.8	2904.4	2905.8	2908.6	2908.6	2903.0	2897.5	2898.9	2896.1	2896.1
12.5°	2879.3	2883.5	2884.9	2890.5	2897.5	2905.8	2893.3	2880.7	2877.9	2876.5	2875.1
15°	2863.9	2868.1	2873.7	2879.3	2891.9	2910.0	2891.9	2872.3	2866.7	2861.2	2858.4
17.5°	2859.8	2865.3	2873.7	2882.1	2898.9	2917.0	2901.7	2882.1	2868.1	2859.8	2857.0
20°	2870.9	2875.1	2887.7	2903.0	2926.8	2944.9	2929.6	2908.6	2887.7	2875.1	2870.9
22.5°	2893.3	2900.3	2915.6	2943.5	2977.1	3003.6	2982.6	2947.7	2914.2	2897.5	2891.9
25°	2942.1	2947.7	2965.9	3003.6	3042.7	3067.8	3045.5	3005.0	2958.9	2936.6	2929.6
27.5°	3016.2	3024.5	3044.1	3088.8	3120.9	3134.8	3119.5	3091.6	3058.0	3034.3	3028.7
30°	3120.9	3130.7	3160.0	3207.5	3228.4	3236.8	3229.8	3211.6	3187.9	3162.8	3157.2
32.5°	3261.9	3267.5	3301.0	3345.7	3365.2	3368.0	3359.7	3351.3	3312.2	3270.3	3267.5
35°	3419.7	3429.5	3470.0	3523.0	3541.2	3542.6	3525.8	3513.3	3467.2	3433.7	3433.7
37.5°	3629.2	3633.3	3672.4	3732.5	3752.0	3746.5	3738.1	3726.9	3678.0	3634.7	3636.1
40°	3874.9	3883.3	3916.8	3986.6	3986.6	3979.6	3985.2	3976.9	3928.0	3886.1	3887.5
42.5°	4166.8	4170.9	4211.4	4285.4	4279.9	4265.9	4271.5	4260.3	4229.6	4182.1	4165.4
45°	4478.1	4494.9	4564.7	4635.9	4624.8	4580.1	4602.4	4599.6	4571.7	4500.5	4504.7
47.5°	4853.8	4881.7	4948.7	5033.9	5021.3	4951.5	4976.7	4993.4	4954.3	4876.1	4862.1
50°	5276.9	5295.0	5394.2	5473.8	5462.6	5388.6	5445.8	5448.6	5350.9	5240.6	5240.6
52.5°	5727.9	5746.0	5880.1	6004.4	6011.4	5903.8	5949.9	5947.1	5787.9	5642.7	5614.8
55°	6233.4	6241.8	6414.9	6597.8	6636.9	6532.2	6537.8	6481.9	6275.3	6106.3	6091.0
57.5°	6755.6	6786.3	6977.6	7215.0	7330.9	7266.7	7237.4	7088.0	6888.3	6694.2	6684.4
60°	7333.7	7335.1	7583.7	7864.3	8098.9	8142.2	8022.1	7822.4	7564.1	7307.2	7296.0
62.5°	7734.5	7794.5	8108.7	8583.5	9003.8	9246.7	8929.8	8510.9	8002.6	7587.9	7546.0
65°	7816.9	7857.4	8336.3	9140.6	9999.4	10523.0	9789.9	8899.0	8031.9	7478.9	7451.0
67.5°	7150.8	7194.1	7839.2	9073.6	10697.6	11771.4	10348.5	8711.9	7534.8	6850.6	6796.1
70°	5531.0	5579.9	6377.2	7987.2	10542.6	12163.8	9950.5	7599.0	6213.8	5475.2	5376.0
72.5°	2940.7	3120.9	3802.3	5482.1	8556.9	10472.8	8159.0	5545.0	4007.6	3275.9	3144.6
75°	1073.8	1096.1	1476.0	2431.1	4978.0	7181.5	5169.3	2644.7	1520.6	1174.3	1114.3
77.5°	444.0	442.6	485.9	734.5	1808.3	3678.0	2017.8	776.4	484.5	448.2	442.6
80°	262.5	262.5	289.0	305.8	476.2	1110.1	532.0	346.3	290.4	265.3	269.5
82.5°	117.3	124.3	182.9	192.7	230.4	304.4	256.9	220.6	189.9	131.3	118.7
85°	64.2	55.9	96.3	100.5	110.3	113.1	121.5	120.1	110.3	64.2	65.6
87.5°	12.6	15.4	27.9	20.9	23.7	20.9	27.9	39.1	40.5	22.3	18.2
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)