

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: P647315

Luminaire Tested: **GALN-SA3D-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15340.5 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

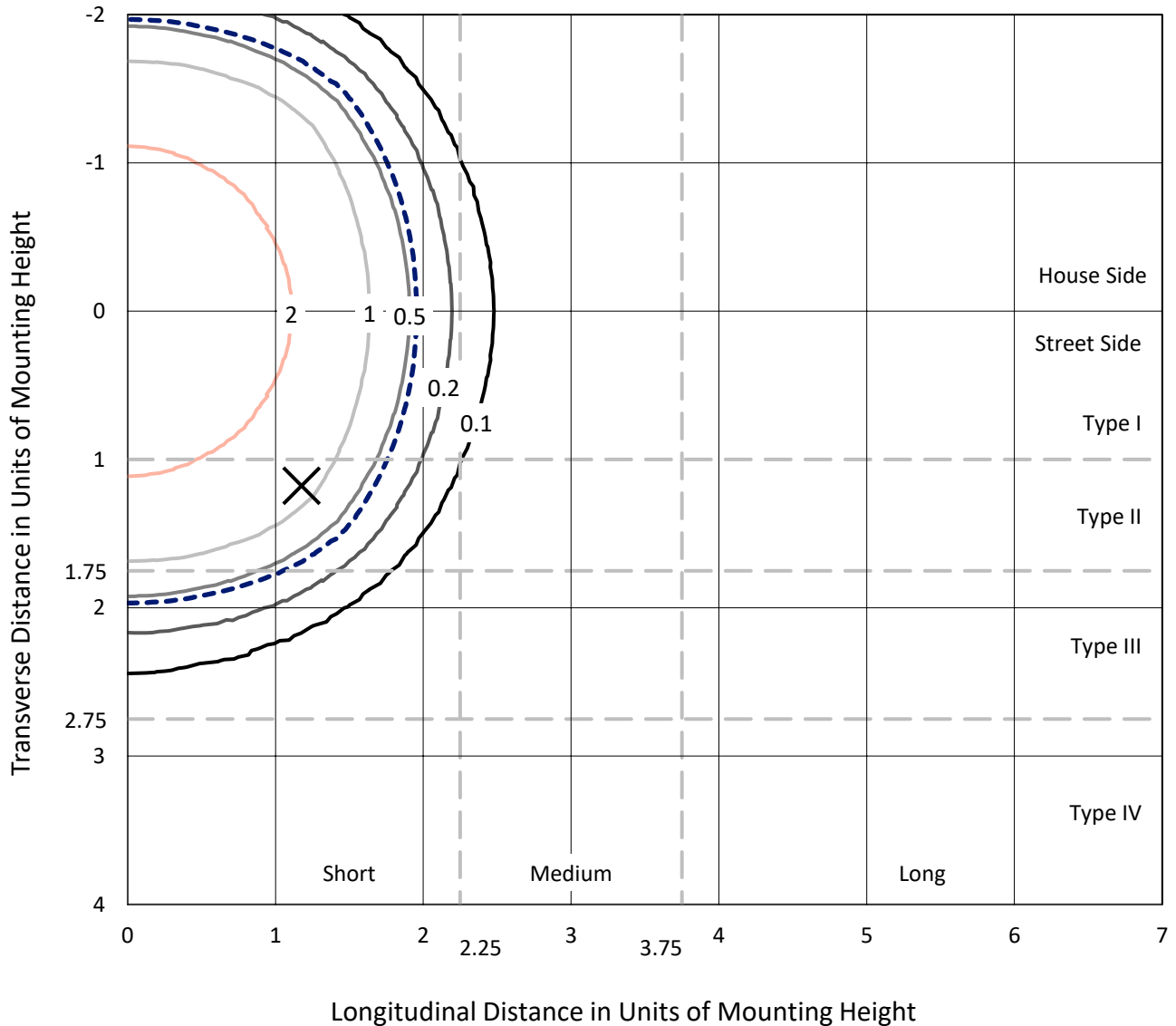
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

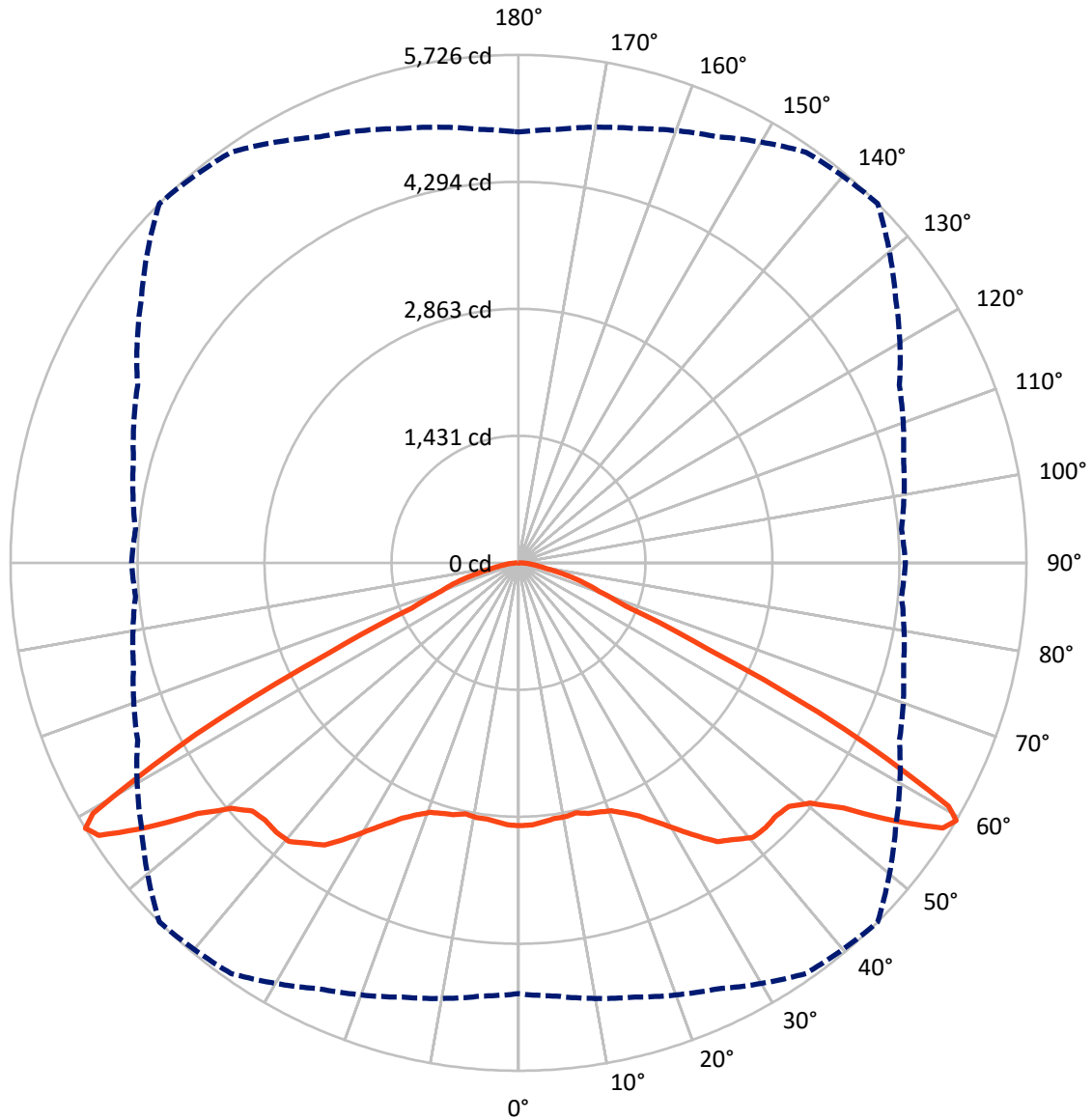
× Max cd  
 - - - 1/2 Max cd



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 59-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7670.3	0.0	7670.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7670.3	0.0	7670.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15340.5	0.0	15340.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.3	1.8
10°-20°	830.6	5.4
20°-30°	1450.4	9.5
30°-40°	2316.5	15.1
40°-50°	3155.6	20.6
50°-60°	4267.2	27.8
60°-70°	2340.1	15.3
70°-80°	598.7	3.9
80°-90°	102.1	0.7
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°	15340.5	100.0
0°-180°	15340.5	100.0

**Coefficient of Utilization**



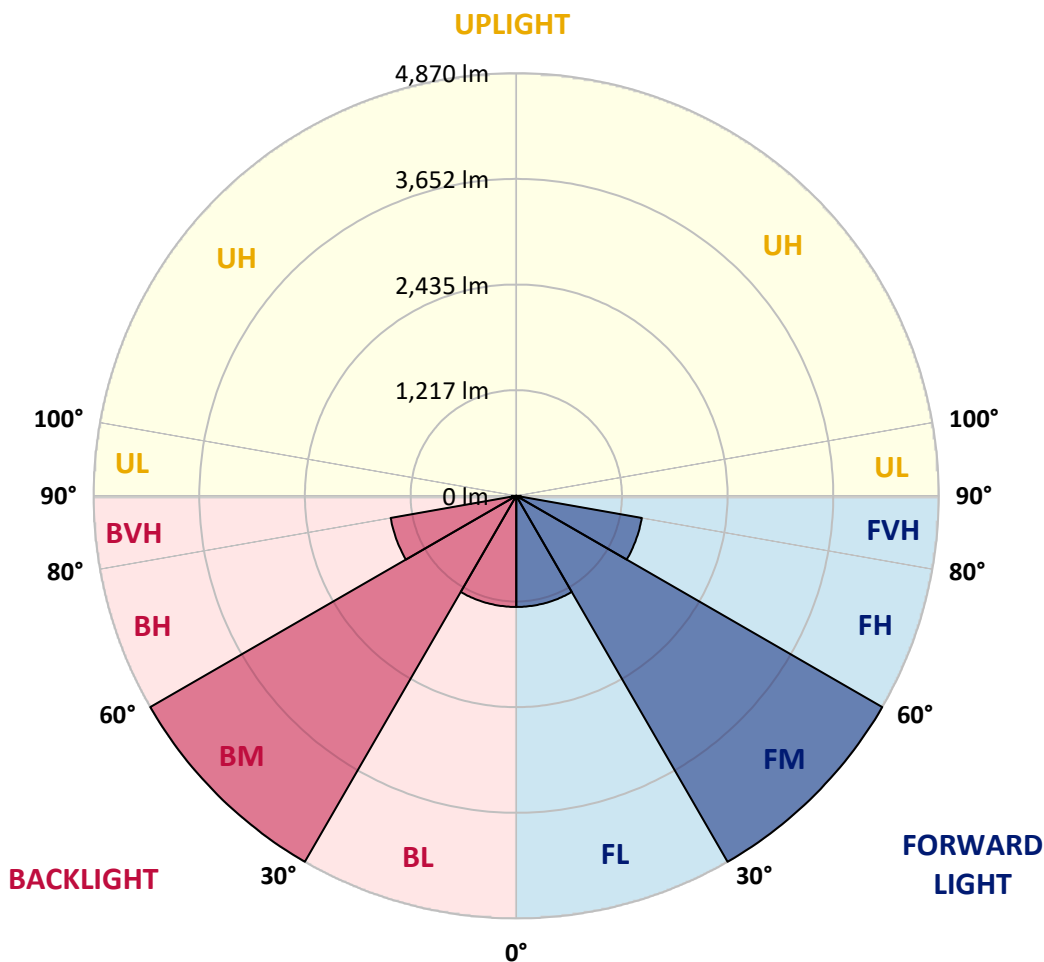
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.2	8.3			
FM (30°-60°)	4869.6	31.7			
FH (60°-80°)	1469.4	9.6			G1/1800
FVH (80°-90°)	51.1	0.3			G1/100
BL (0°-30°)	1280.2	8.3	B3/2500		
BM (30°-60°)	4869.6	31.7	B3/5000		
BH (60°-80°)	1469.4	9.6	B3/2500		G1/1800
BVH (80°-90°)	51.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2963.0	2963.0	2963.0	2963.0	2963.0	2963.0	2963.0	2963.0	2963.0	2963.0	2963.0
2.5°	2945.3	2967.0	2951.3	2965.0	2963.0	2957.2	2947.3	2941.4	2933.6	2945.3	2925.7
5°	2933.6	2951.3	2969.0	2945.3	2945.3	2933.6	2927.6	2915.9	2915.9	2913.9	2911.9
7.5°	2953.2	2935.5	2927.6	2931.6	2935.5	2909.9	2927.6	2904.1	2884.4	2898.2	2913.9
10°	2935.5	2943.4	2913.9	2927.6	2906.0	2909.9	2898.2	2913.9	2892.2	2892.2	2892.2
12.5°	2953.2	2931.6	2941.4	2931.6	2925.7	2892.2	2908.0	2890.3	2888.3	2908.0	2890.3
15°	2988.6	2953.2	2945.3	2925.7	2931.6	2931.6	2915.9	2917.8	2896.2	2908.0	2911.9
17.5°	2976.8	2957.2	2951.3	2927.6	2947.3	2953.2	2923.7	2904.1	2917.8	2915.9	2913.9
20°	2986.7	2994.5	2988.6	2992.5	3000.4	2984.7	2957.2	2929.6	2911.9	2937.5	2935.5
22.5°	3049.6	3041.7	3037.8	3033.8	3047.6	3063.3	3026.0	2982.7	2982.7	3000.4	3008.3
25°	3100.7	3098.7	3096.8	3114.5	3161.7	3161.7	3114.5	3059.4	3045.6	3057.5	3047.6
27.5°	3175.4	3197.1	3189.2	3220.6	3289.5	3305.2	3242.2	3177.3	3140.0	3126.3	3144.0
30°	3346.5	3320.9	3326.8	3360.2	3421.2	3472.3	3376.0	3307.2	3256.0	3254.1	3261.9
32.5°	3460.5	3480.2	3497.9	3529.3	3625.7	3665.0	3548.9	3436.9	3405.4	3387.7	3393.7
35°	3688.6	3670.9	3666.9	3698.4	3794.7	3859.6	3714.2	3615.8	3574.6	3613.9	3613.9
37.5°	3904.9	3855.7	3818.4	3859.6	3948.1	3956.0	3832.1	3779.0	3757.4	3802.6	3800.7
40°	4007.1	4003.2	3916.6	3940.3	4058.2	4070.0	3954.0	3891.1	3887.2	3946.2	4005.1
42.5°	4113.3	4075.9	3989.4	4005.1	4077.9	4081.9	3971.7	3954.0	3997.3	4054.3	4058.2
45°	4131.0	4099.6	4044.4	4005.1	4058.2	4070.0	4005.1	4016.9	4020.9	4089.7	4089.7
47.5°	4166.3	4162.4	4131.0	4101.5	4111.3	4101.5	4060.2	4077.9	4136.9	4170.3	4154.6
50°	4264.7	4223.4	4254.8	4229.3	4231.3	4258.8	4221.4	4239.1	4227.3	4197.8	4178.2
52.5°	4481.0	4461.3	4488.9	4506.6	4526.2	4589.1	4545.9	4451.4	4363.0	4284.3	4282.4
55°	4797.5	4811.3	4864.4	4954.8	5031.5	5131.8	4923.3	4697.2	4555.7	4431.8	4439.7
57.5°	5096.4	5086.5	5159.3	5365.7	5589.9	5641.0	5232.1	4909.6	4679.5	4600.9	4567.5
59°	4856.5	4903.7	5068.8	5298.9	5650.8	5725.5	5190.7	4736.6	4492.8	4333.5	4361.0
60°	4479.0	4496.7	4644.1	4964.6	5440.4	5568.3	4913.6	4469.1	4144.7	4052.3	4093.6
62.5°	3165.6	3151.8	3258.0	3519.5	3946.2	4119.2	3653.2	3340.6	3136.1	3033.8	3057.5
65°	1683.1	1746.0	1789.2	1952.4	2178.5	2361.4	2168.8	2033.1	1919.0	1834.5	1832.5
67.5°	1136.4	1128.6	1138.4	1175.8	1252.5	1303.6	1299.6	1230.9	1221.0	1205.3	1223.0
70°	957.5	953.6	935.9	935.9	951.7	963.4	977.2	985.1	1000.8	1020.5	1018.5
72.5°	776.7	766.8	755.0	749.1	768.7	774.7	792.4	800.2	814.0	812.0	829.7
75°	513.2	513.2	527.0	542.7	548.6	560.4	562.4	585.9	585.9	589.8	574.1
77.5°	287.0	279.2	289.0	304.7	318.5	340.1	361.7	379.4	389.3	385.4	385.4
80°	167.1	167.1	177.0	194.7	212.3	232.0	247.7	261.5	271.3	267.4	259.6
82.5°	104.2	104.2	114.0	131.7	145.5	157.3	178.9	196.6	208.4	204.5	194.7
85°	53.1	53.1	64.9	76.7	94.4	102.3	100.3	92.4	90.4	80.6	80.6
87.5°	13.8	13.8	19.7	21.6	17.7	19.7	19.7	19.7	19.7	19.7	21.6
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)