

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: P459327

Luminaire Tested: **GALN-SA8A-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459327  
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-SA8A-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 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: 36003 lumens  
Efficiency: N/A  
Efficacy: 147.6 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

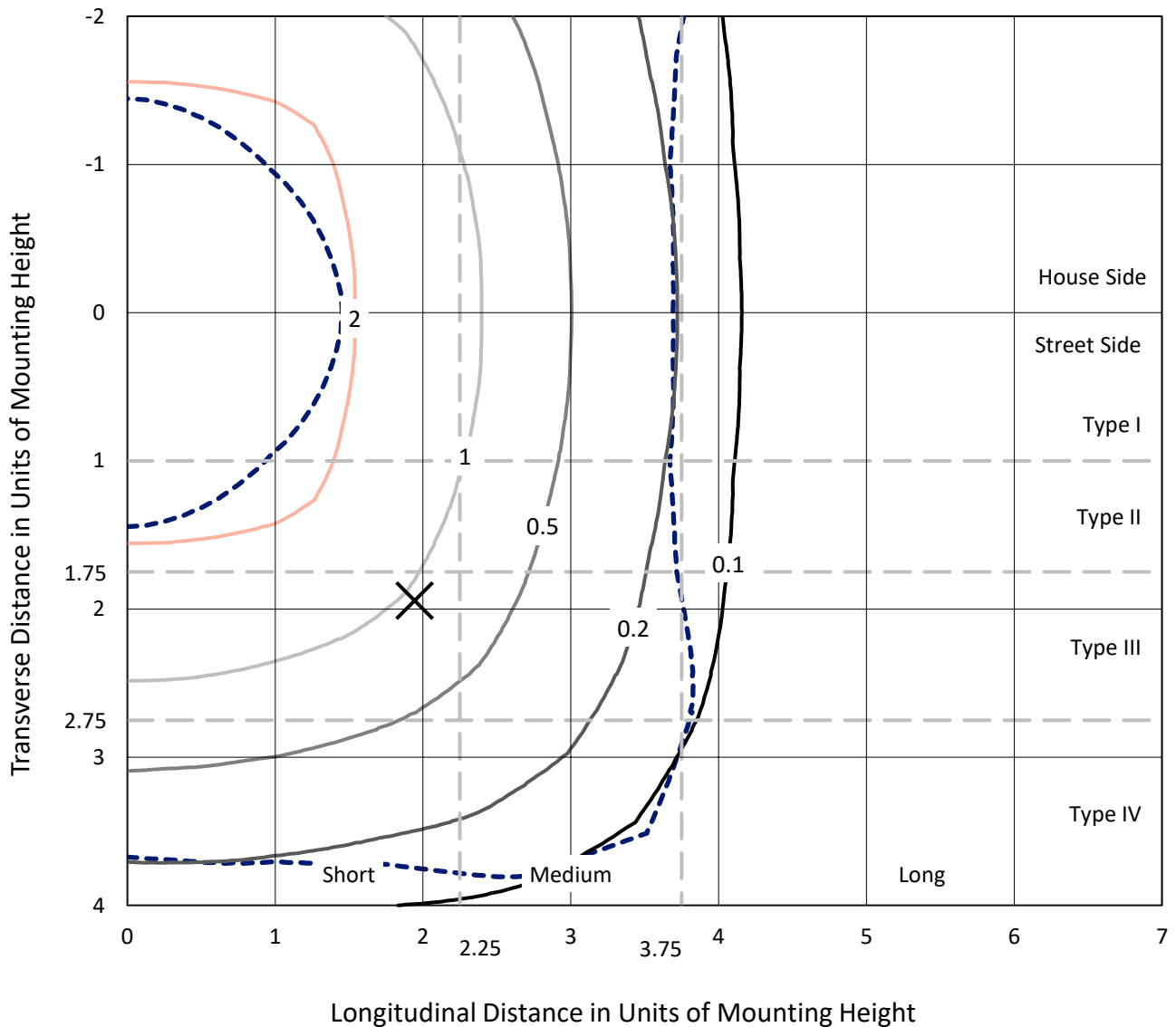
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

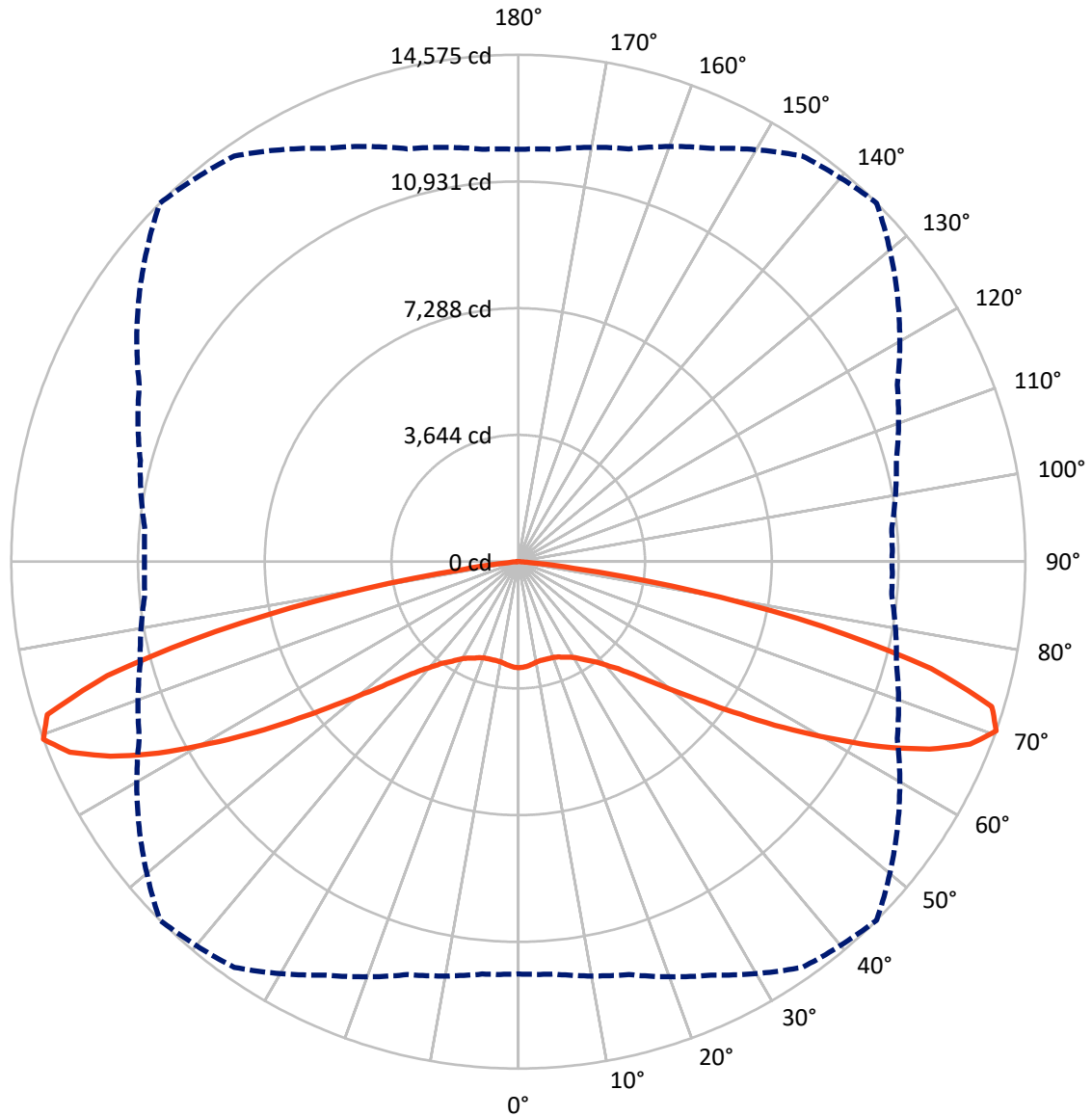
× Max cd  
 - - - 1/2 Max cd



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	18001.5	0.0	18001.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18001.5	0.0	18001.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36003.0	0.0	36003.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.1	0.8
10°-20°	834.5	2.3
20°-30°	1421.8	3.9
30°-40°	2203.8	6.1
40°-50°	3709.3	10.3
50°-60°	6748.9	18.7
60°-70°	11425.7	31.7
70°-80°	8844.0	24.6
80°-90°	529.9	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°	36003.0	100.0
0°-180°	36003.0	100.0

**Coefficient of Utilization**



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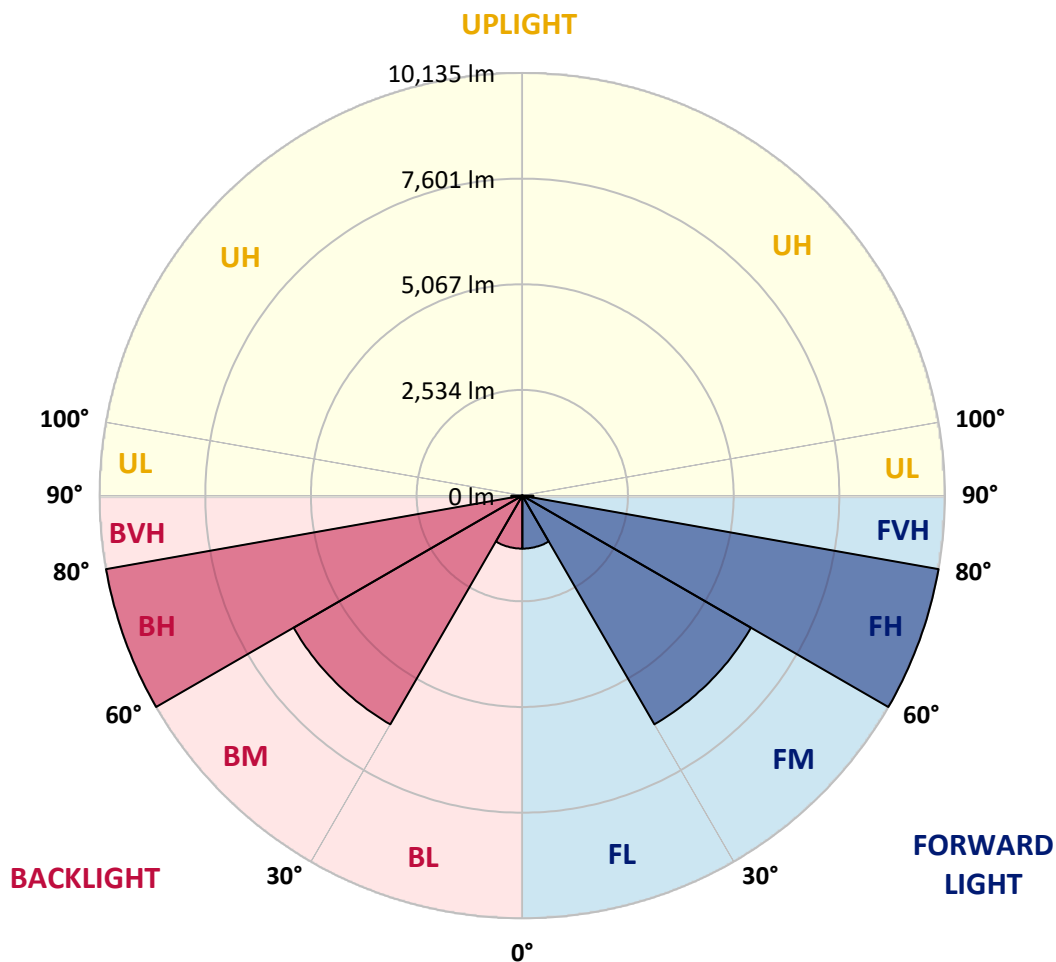
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.7	3.5			
FM (30°-60°)	6331.0	17.6			
FH (60°-80°)	10134.8	28.2			G4/12000
FVH (80°-90°)	265.0	0.7			G3/500
BL (0°-30°)	1270.7	3.5	B3/2500		
BM (30°-60°)	6331.0	17.6	B4/8500		
BH (60°-80°)	10134.8	28.2	B5		G4/12000
BVH (80°-90°)	265.0	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°	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1
2.5°	3040.5	3042.4	3042.4	3038.6	3036.7	3036.7	3034.8	3034.8	3040.5	3042.4	3044.3
5°	3013.9	3013.9	3013.9	3012.0	3008.2	3008.2	3004.4	3004.4	3006.3	3012.0	3008.2
7.5°	2977.7	2981.5	2981.5	2973.9	2968.2	2968.2	2966.3	2968.2	2970.1	2975.8	2973.9
10°	2966.3	2968.2	2958.7	2945.4	2935.9	2930.2	2932.1	2935.9	2945.4	2949.2	2951.1
12.5°	2973.9	2973.9	2956.8	2937.8	2920.7	2913.1	2911.2	2924.5	2941.6	2953.0	2956.8
15°	2983.4	2979.6	2958.7	2934.0	2916.9	2915.0	2913.1	2922.6	2947.3	2970.1	2972.0
17.5°	2989.1	2987.2	2960.6	2930.2	2920.7	2920.7	2918.8	2926.4	2953.0	2981.5	2983.4
20°	3008.2	3002.5	2972.0	2939.7	2932.1	2935.9	2930.2	2939.7	2968.2	3002.5	3010.1
22.5°	3046.2	3040.5	3010.1	2977.7	2973.9	2973.9	2972.0	2981.5	3012.0	3048.1	3053.8
25°	3091.8	3086.1	3057.6	3034.8	3038.6	3046.2	3042.4	3044.3	3069.0	3099.4	3108.9
27.5°	3152.7	3143.2	3118.5	3099.4	3110.8	3110.8	3110.8	3108.9	3124.2	3152.7	3162.2
30°	3226.8	3223.0	3196.4	3194.5	3204.0	3194.5	3194.5	3196.4	3198.3	3224.9	3234.4
32.5°	3323.8	3316.2	3302.9	3299.1	3325.7	3333.3	3306.7	3282.0	3295.3	3321.9	3327.6
35°	3483.5	3472.1	3453.1	3432.2	3453.1	3489.2	3432.2	3413.2	3447.4	3483.5	3487.3
37.5°	3700.3	3694.6	3664.2	3626.1	3624.2	3662.3	3603.3	3601.4	3666.1	3709.8	3715.5
40°	3972.2	3977.9	3939.9	3903.8	3884.8	3915.2	3869.5	3886.7	3949.4	3998.8	3995.0
42.5°	4354.4	4333.5	4274.6	4240.3	4219.4	4208.0	4196.6	4223.2	4293.6	4346.8	4388.6
45°	4801.3	4793.7	4719.5	4677.7	4632.0	4614.9	4611.1	4658.7	4744.2	4808.9	4814.6
47.5°	5307.1	5290.0	5242.4	5198.7	5181.6	5160.7	5141.6	5177.8	5263.3	5309.0	5322.3
50°	5828.1	5831.9	5831.9	5824.3	5841.4	5845.2	5793.9	5807.2	5854.7	5850.9	5847.1
52.5°	6423.2	6444.2	6543.0	6552.5	6634.3	6689.5	6596.3	6541.1	6524.0	6421.3	6429.0
55°	7123.0	7142.0	7290.3	7438.6	7659.2	7752.4	7556.5	7385.4	7263.7	7107.8	7115.4
57.5°	7995.8	8005.3	8146.0	8431.2	8781.1	8999.8	8655.6	8317.1	8069.9	7921.6	7862.7
60°	8935.1	8944.6	9150.0	9498.0	10041.8	10308.0	9882.1	9328.7	9016.9	8790.6	8805.8
62.5°	10062.7	10100.7	10285.2	10764.4	11424.2	11722.7	11158.0	10418.3	9996.2	9714.7	9726.1
65°	11270.2	11334.8	11536.4	12063.1	12671.6	12992.9	12300.8	11447.0	10922.2	10578.0	10614.1
67.5°	12053.6	12110.6	12401.5	12983.4	13742.1	14008.3	13114.6	12120.1	11464.1	11053.4	10977.3
70°	11853.9	11901.5	12289.4	13114.6	14238.4	14575.0	13308.6	12021.2	11249.2	10775.8	10745.3
72.5°	10463.9	10365.0	10931.7	12116.3	13671.7	14236.5	12698.2	10979.2	10007.6	9520.8	9463.7
75°	6934.7	7149.6	7986.3	9382.0	11566.8	12266.5	10838.5	8815.3	7592.7	7187.6	7124.9
77.5°	2317.9	2483.4	3226.8	5318.5	7885.5	8937.0	7896.9	5765.3	4078.7	3285.8	3301.0
80°	614.2	606.6	785.3	1462.2	3407.5	5175.9	3966.5	1952.8	1068.6	773.9	734.0
82.5°	220.6	247.2	317.5	405.0	903.2	1608.7	1135.2	547.6	401.2	296.6	287.1
85°	97.0	95.1	136.9	161.6	226.3	300.4	266.2	232.0	203.5	135.0	125.5
87.5°	20.9	20.9	32.3	24.7	39.9	39.9	49.4	58.9	60.8	39.9	32.3
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)