

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: P647312

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
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-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16287.2 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - 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

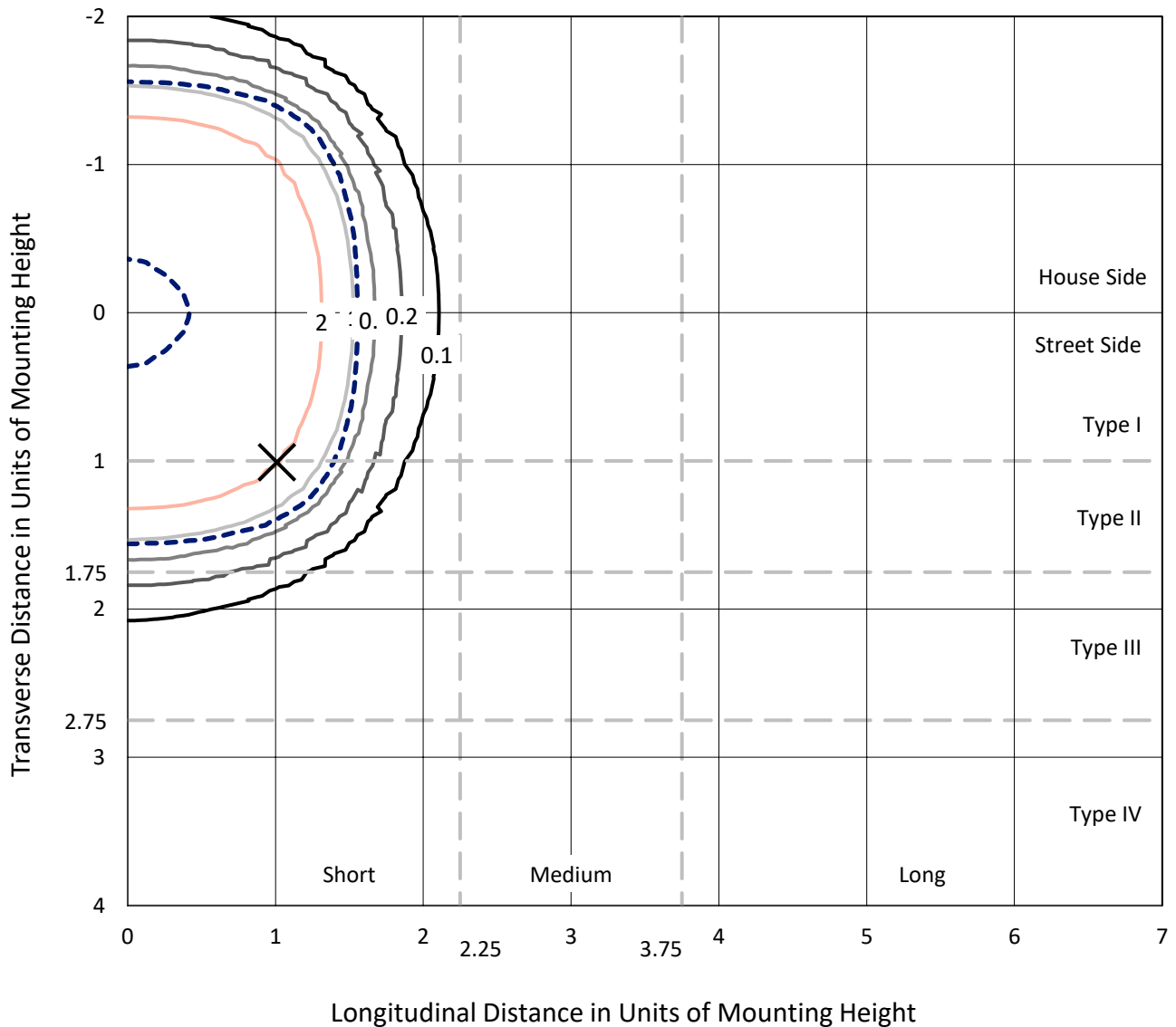




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### Iso-Footcandle Lines of Horizontal Illumination

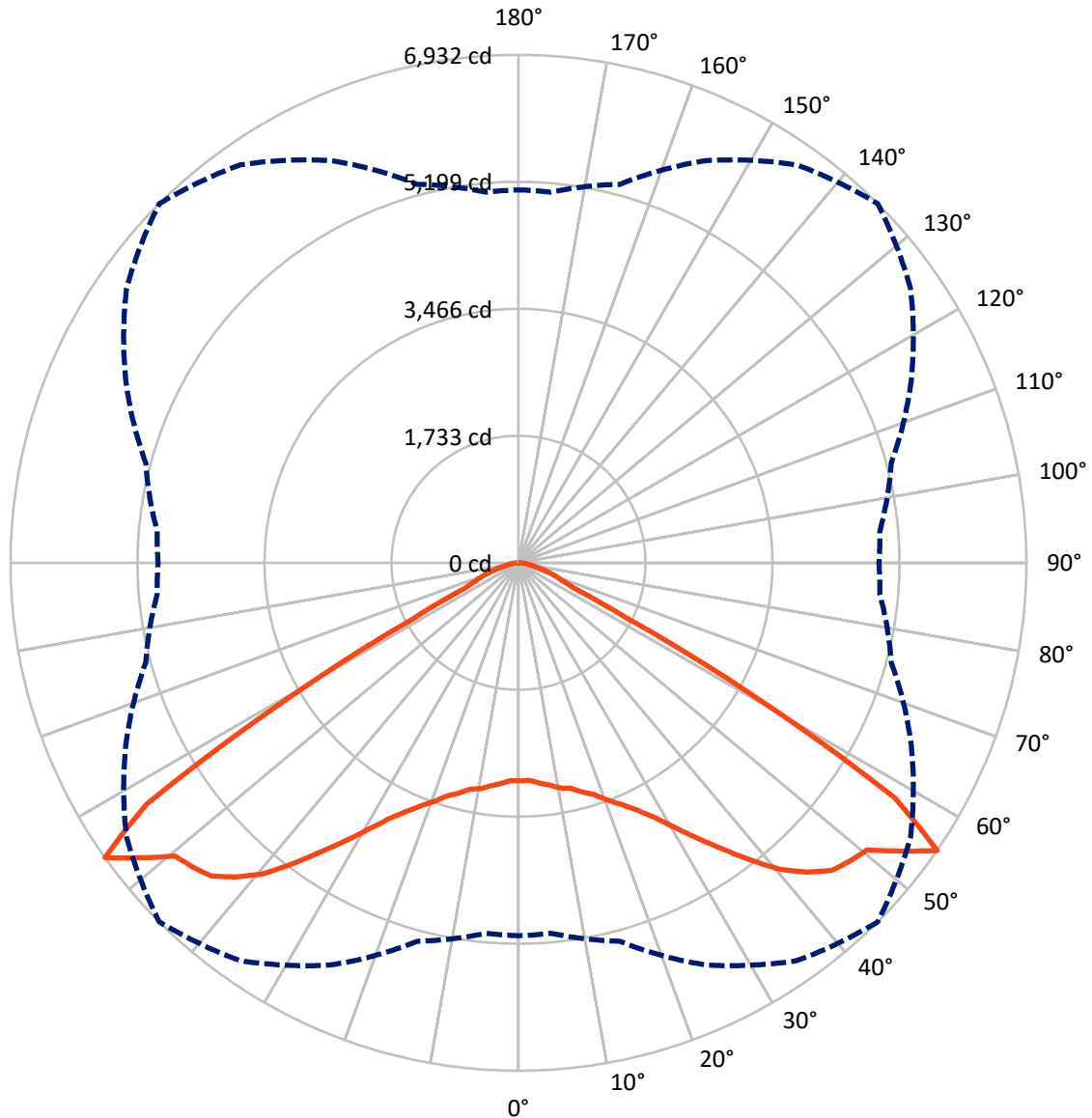
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8143.6	0.0	8143.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8143.6	0.0	8143.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16287.2	0.0	16287.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.5	1.8
10°-20°	920.5	5.7
20°-30°	1716.4	10.5
30°-40°	2873.8	17.6
40°-50°	4471.9	27.5
50°-60°	4643.3	28.5
60°-70°	984.7	6.0
70°-80°	324.3	2.0
80°-90°	61.8	0.4
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°	16287.2	100.0
0°-180°	16287.2	100.0

**Coefficient of Utilization**

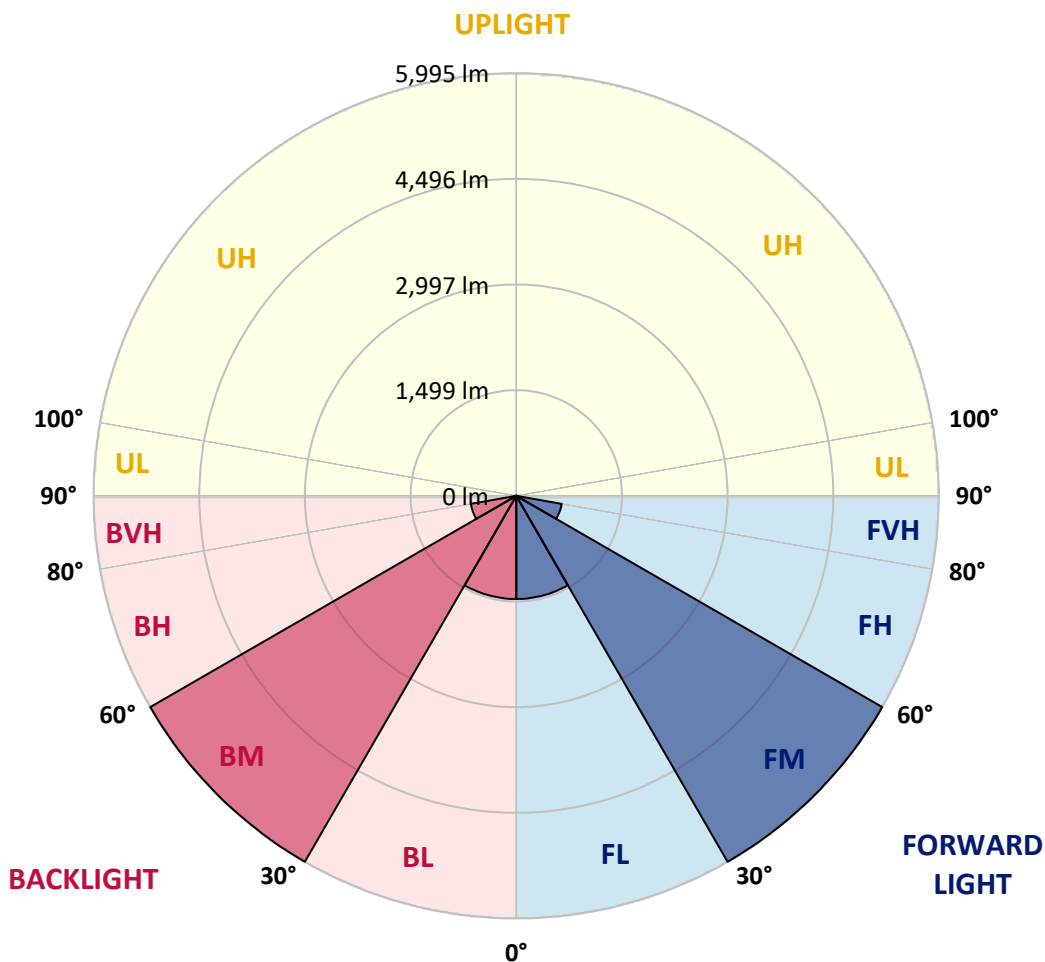


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1463.7	9.0			
FM (30°-60°)	5994.5	36.8			
FH (60°-80°)	654.5	4.0			G0/660
FVH (80°-90°)	30.9	0.2			G1/100
BL (0°-30°)	1463.7	9.0	B3/2500		
BM (30°-60°)	5994.5	36.8	B4/8500		
BH (60°-80°)	654.5	4.0	B2/1000		G0/660
BVH (80°-90°)	30.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2973.8	2973.8	2973.8	2973.8	2973.8	2973.8	2973.8	2973.8	2973.8	2973.8	2973.8
2.5°	3009.2	2995.4	2971.8	2989.6	3003.4	2973.8	2985.6	2991.5	2987.5	2971.8	2977.7
5°	3052.5	3044.6	3025.0	3038.7	3021.0	3021.0	3009.2	2993.5	3017.1	3013.1	3023.0
7.5°	3052.5	3042.7	3082.0	3056.4	3064.3	3064.3	3044.6	3028.9	3040.7	3023.0	3013.1
10°	3113.5	3127.3	3109.6	3115.5	3111.6	3125.3	3095.8	3086.0	3076.2	3070.2	3058.4
12.5°	3186.3	3176.5	3182.4	3178.5	3192.3	3156.8	3139.1	3117.4	3135.2	3109.6	3127.3
15°	3245.4	3239.5	3245.4	3261.1	3247.3	3245.4	3213.9	3192.3	3164.7	3170.6	3143.0
17.5°	3326.1	3320.2	3322.1	3335.9	3333.9	3324.1	3300.5	3259.2	3249.3	3233.6	3215.9
20°	3446.1	3436.3	3432.4	3438.2	3448.1	3456.0	3408.7	3393.0	3359.5	3333.9	3304.4
22.5°	3548.5	3544.6	3560.3	3534.7	3556.4	3580.0	3534.7	3526.9	3444.2	3430.4	3398.9
25°	3690.2	3684.2	3674.5	3711.8	3737.4	3735.5	3692.2	3648.9	3585.9	3570.2	3570.2
27.5°	3839.8	3806.3	3857.4	3867.3	3912.6	3926.4	3888.9	3826.0	3766.9	3733.5	3741.3
30°	4026.7	3995.3	4007.1	4077.9	4137.0	4188.1	4093.7	4001.1	3918.4	3859.4	3849.6
32.5°	4213.7	4182.2	4217.6	4286.5	4404.6	4481.3	4388.9	4227.5	4131.0	4044.4	4062.1
35°	4365.2	4388.9	4446.0	4550.2	4672.2	4796.3	4648.7	4524.6	4386.9	4290.4	4304.2
37.5°	4609.3	4682.1	4727.4	4847.4	5020.6	5148.5	4995.1	4833.6	4686.0	4560.1	4516.8
40°	4928.1	4977.3	5028.5	5170.2	5374.9	5502.8	5357.1	5146.6	5000.9	4871.0	4865.2
42.5°	5278.4	5325.7	5378.8	5552.0	5674.0	5770.5	5636.7	5524.5	5363.1	5260.7	5254.8
45°	5685.8	5652.4	5711.4	5825.6	5927.9	5990.9	5904.3	5849.2	5733.0	5638.6	5628.8
47.5°	5957.5	5927.9	6034.2	6136.5	6152.3	6083.4	6101.1	6152.3	6030.3	5874.8	5923.9
50°	6114.9	6114.9	6185.7	6280.2	6250.7	6162.1	6301.8	6305.8	6183.7	6046.0	6046.0
52.5°	5841.3	5902.3	6103.1	6412.1	6510.5	6536.1	6504.5	6370.7	6051.9	5770.5	5756.7
55°	5089.5	5075.7	5347.3	6055.8	6628.6	6931.7	6530.1	5914.2	5266.6	4949.7	4918.3
57.5°	3310.4	3326.1	3731.5	4453.8	5487.0	6051.9	5374.9	4508.9	3731.5	3294.6	3335.9
60°	1489.8	1543.0	1789.0	2328.3	3215.9	3676.4	3223.8	2446.3	1877.6	1629.6	1651.3
62.5°	856.1	866.0	875.8	1039.1	1369.8	1619.7	1422.9	1098.2	968.3	925.0	925.0
65°	722.3	716.4	718.3	732.1	767.6	818.7	797.1	767.6	771.5	767.6	761.6
67.5°	614.0	621.9	616.0	625.9	627.8	635.7	649.5	661.2	663.3	667.2	663.3
70°	503.9	505.8	509.7	517.6	519.6	525.5	545.1	555.0	560.9	560.9	568.8
72.5°	385.8	383.7	387.7	395.6	405.4	407.4	425.1	438.9	446.8	436.9	438.9
75°	253.8	255.9	261.8	267.6	281.4	295.2	301.1	314.9	316.9	320.8	310.9
77.5°	151.5	155.5	161.4	173.2	185.0	196.8	210.5	220.4	224.3	220.4	208.6
80°	98.4	98.4	106.3	116.1	129.9	139.8	147.6	155.5	161.4	155.5	151.5
82.5°	61.0	61.0	70.9	82.7	92.5	98.4	110.2	120.0	126.0	122.0	116.1
85°	31.5	33.4	41.3	51.2	59.0	63.0	61.0	55.1	49.2	47.2	43.3
87.5°	9.9	9.9	11.8	11.8	9.9	9.9	11.8	9.9	11.8	11.8	11.8
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)