

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: P648581

Luminaire Tested: **GALN-SA8B-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648581  
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-SA8B-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37654.5 lumens  
Efficiency: N/A  
Efficacy: 115.9 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

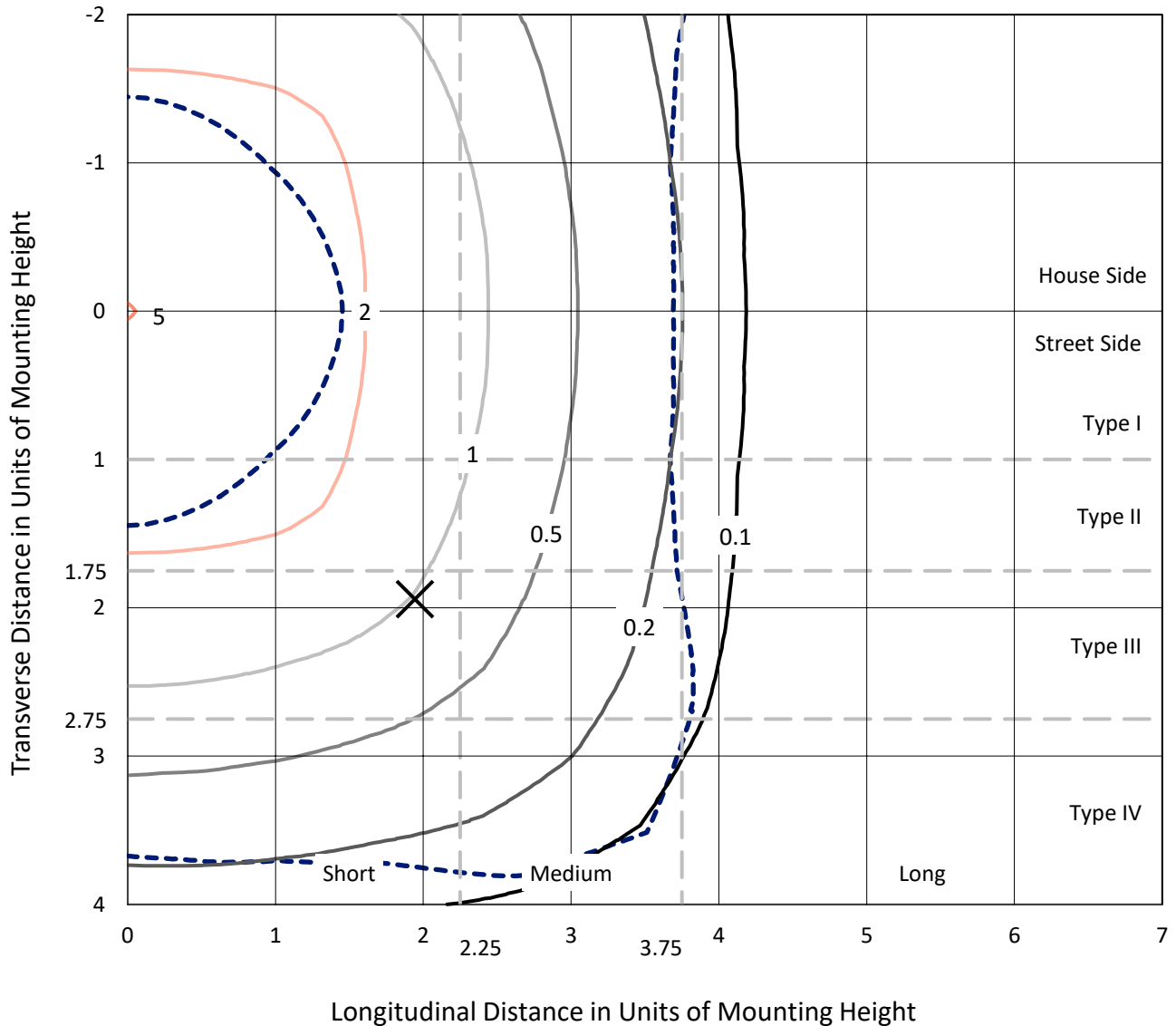
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

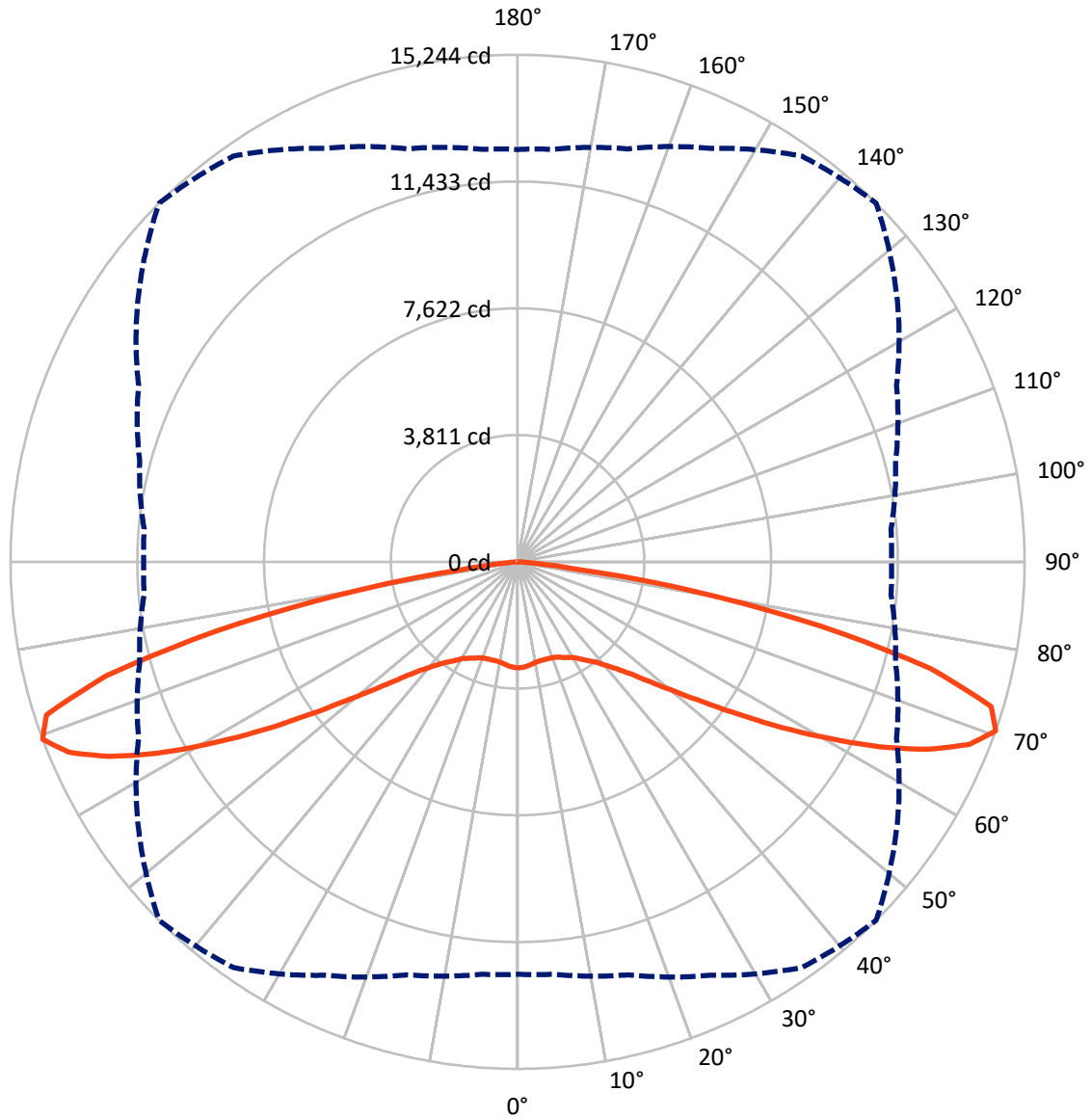
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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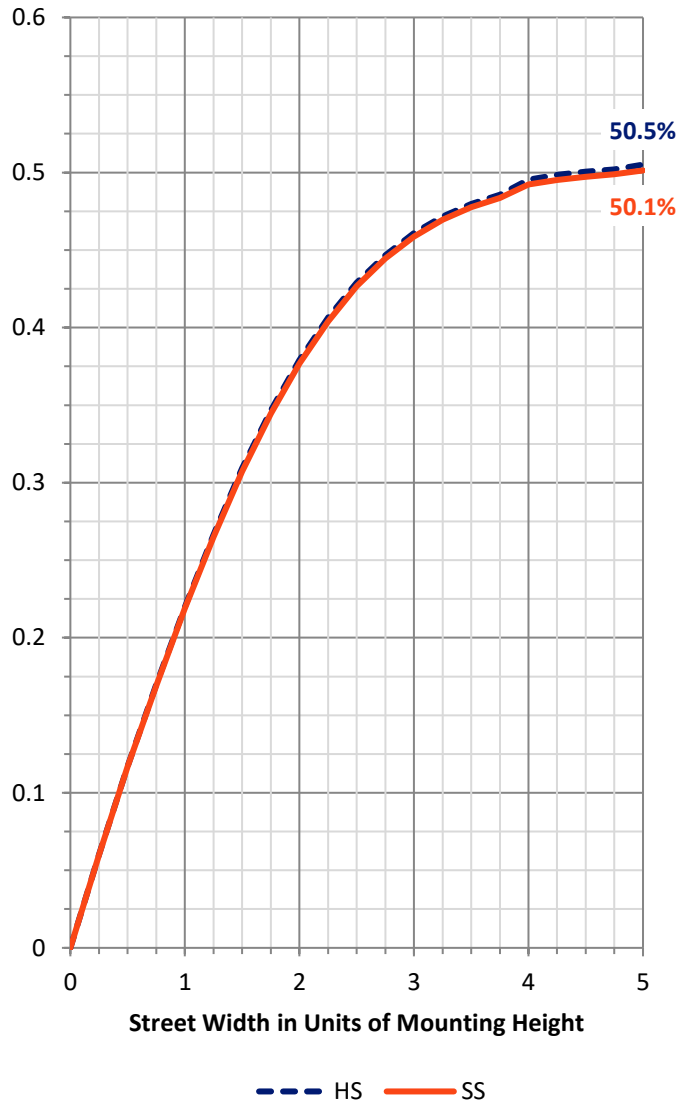
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18827.2	0.0	18827.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18827.2	0.0	18827.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37654.5	0.0	37654.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.1	0.8
10°-20°	872.8	2.3
20°-30°	1487.0	3.9
30°-40°	2304.9	6.1
40°-50°	3879.4	10.3
50°-60°	7058.5	18.7
60°-70°	11949.8	31.7
70°-80°	9249.6	24.6
80°-90°	554.2	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°	37654.5	100.0
0°-180°	37654.5	100.0

**Coefficient of Utilization**

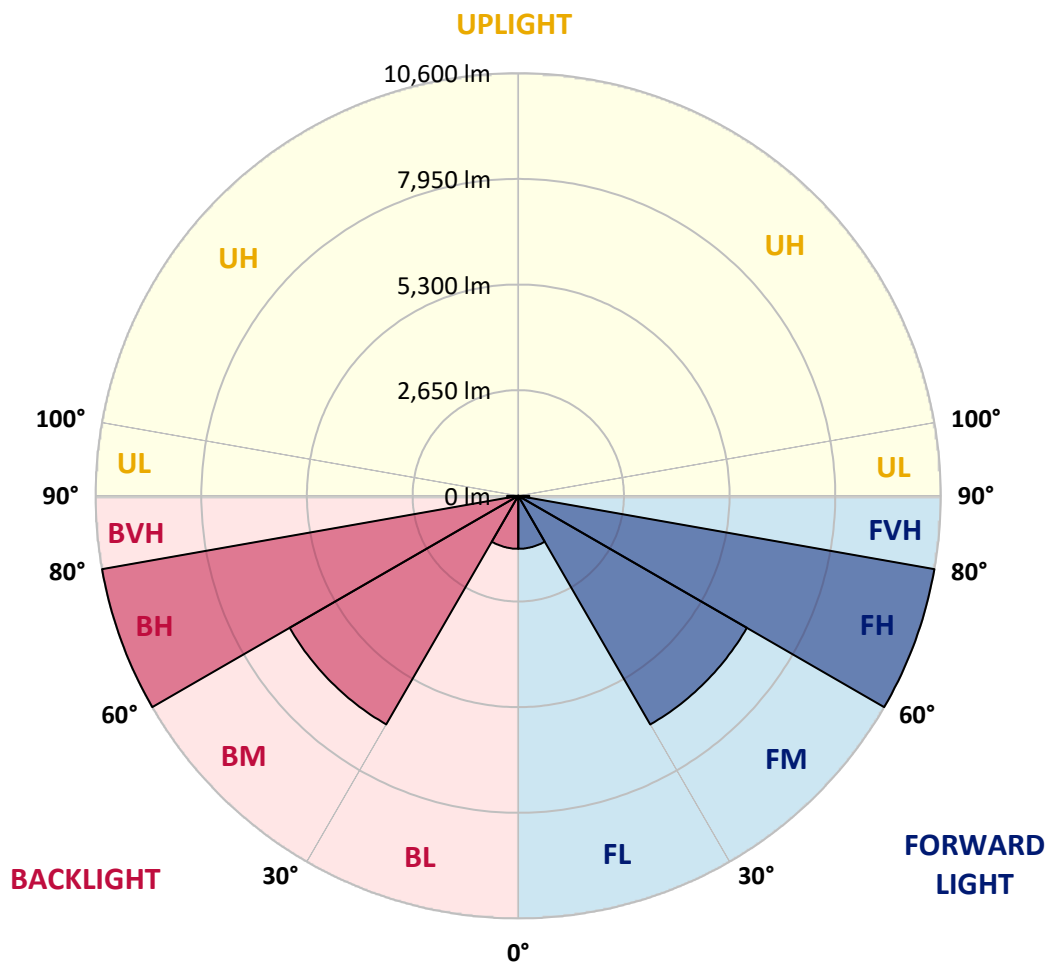


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1329.0	3.5			
FM (30°-60°)	6621.4	17.6			
FH (60°-80°)	10599.7	28.1			G4/12000
FVH (80°-90°)	277.1	0.7			G3/500
BL (0°-30°)	1329.0	3.5	B3/2500		
BM (30°-60°)	6621.4	17.6	B4/8500		
BH (60°-80°)	10599.7	28.1	B5		G4/12000
BVH (80°-90°)	277.1	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°	3187.9	3187.9	3187.9	3187.9	3187.9	3187.9	3187.9	3187.9	3187.9	3187.9	3187.9
2.5°	3179.9	3182.0	3182.0	3178.0	3176.0	3176.0	3174.0	3174.0	3179.9	3182.0	3183.9
5°	3152.1	3152.1	3152.1	3150.1	3146.2	3146.2	3142.2	3142.2	3144.1	3150.1	3146.2
7.5°	3114.3	3118.3	3118.3	3110.4	3104.4	3104.4	3102.4	3104.4	3106.4	3112.3	3110.4
10°	3102.4	3104.4	3094.4	3080.6	3070.6	3064.6	3066.6	3070.6	3080.6	3084.5	3086.5
12.5°	3110.4	3110.4	3092.5	3072.6	3054.6	3046.7	3044.7	3058.6	3076.6	3088.5	3092.5
15°	3120.3	3116.3	3094.4	3068.6	3050.7	3048.7	3046.7	3056.7	3082.5	3106.4	3108.4
17.5°	3126.3	3124.2	3096.5	3064.6	3054.6	3054.6	3052.7	3060.7	3088.5	3118.3	3120.3
20°	3146.2	3140.2	3108.4	3074.5	3066.6	3070.6	3064.6	3074.5	3104.4	3140.2	3148.1
22.5°	3185.9	3179.9	3148.1	3114.3	3110.4	3110.4	3108.4	3118.3	3150.1	3187.9	3193.9
25°	3233.6	3227.7	3197.9	3174.0	3178.0	3185.9	3182.0	3183.9	3209.8	3241.6	3251.6
27.5°	3297.3	3287.3	3261.5	3241.6	3253.5	3253.5	3253.5	3251.6	3267.5	3297.3	3307.2
30°	3374.9	3370.9	3343.0	3341.1	3351.0	3341.1	3341.1	3343.0	3345.1	3372.9	3382.8
32.5°	3476.3	3468.3	3454.4	3450.4	3478.2	3486.2	3458.4	3432.5	3446.5	3474.2	3480.3
35°	3643.3	3631.4	3611.5	3589.7	3611.5	3649.3	3589.7	3569.8	3605.6	3643.3	3647.3
37.5°	3870.1	3864.1	3832.2	3792.5	3790.5	3830.3	3768.6	3766.6	3834.3	3880.0	3886.0
40°	4154.4	4160.4	4120.6	4082.8	4062.9	4094.8	4047.0	4064.9	4130.6	4182.2	4178.3
42.5°	4554.2	4532.3	4470.6	4434.8	4413.0	4401.0	4389.1	4416.9	4490.5	4546.2	4589.9
45°	5021.5	5013.5	4936.0	4892.3	4844.5	4826.6	4822.7	4872.4	4961.9	5029.4	5035.4
47.5°	5550.5	5532.6	5482.9	5437.2	5419.2	5397.4	5377.5	5415.3	5504.8	5552.5	5566.4
50°	6095.4	6099.4	6099.4	6091.4	6109.4	6113.4	6059.6	6073.6	6123.3	6119.3	6115.3
52.5°	6717.9	6739.8	6843.2	6853.1	6938.6	6996.3	6898.9	6841.1	6823.3	6715.9	6723.9
55°	7449.7	7469.6	7624.8	7779.9	8010.6	8108.0	7903.1	7724.1	7596.9	7433.8	7441.8
57.5°	8362.5	8372.5	8519.7	8818.0	9183.9	9412.6	9052.7	8698.7	8440.1	8285.0	8223.4
60°	9344.9	9354.9	9569.7	9933.6	10502.4	10780.8	10335.4	9756.6	9430.5	9193.8	9209.7
62.5°	10524.3	10564.1	10756.9	11258.1	11948.2	12260.4	11669.8	10896.1	10454.7	10160.4	10172.3
65°	11787.1	11854.7	12065.6	12616.4	13252.8	13588.9	12865.0	11972.1	11423.2	11063.2	11101.0
67.5°	12606.5	12666.1	12970.4	13578.9	14372.4	14650.9	13716.2	12676.1	11990.0	11560.4	11480.9
70°	12397.6	12447.4	12853.1	13716.2	14891.5	15243.5	13919.0	12572.6	11765.3	11270.0	11238.2
72.5°	10943.9	10840.5	11433.1	12672.1	14298.8	14889.5	13280.6	11482.9	10466.6	9957.5	9897.8
75°	7252.9	7477.6	8352.6	9812.3	12097.4	12829.2	11335.6	9219.7	7941.0	7517.3	7451.7
77.5°	2424.2	2597.3	3374.9	5562.4	8247.2	9347.0	8259.2	6029.8	4265.8	3436.5	3452.4
80°	642.4	634.4	821.4	1529.4	3563.7	5413.3	4148.5	2042.4	1117.7	809.4	767.7
82.5°	230.7	258.5	332.1	423.6	944.6	1682.4	1187.3	572.8	419.6	310.2	300.3
85°	101.4	99.4	143.2	169.0	236.6	314.2	278.4	242.7	212.8	141.2	131.2
87.5°	21.8	21.8	33.8	25.8	41.7	41.7	51.7	61.6	63.7	41.7	33.8
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)