

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: P533005

Luminaire Tested: **GALN-SA8B-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-830-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21913 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

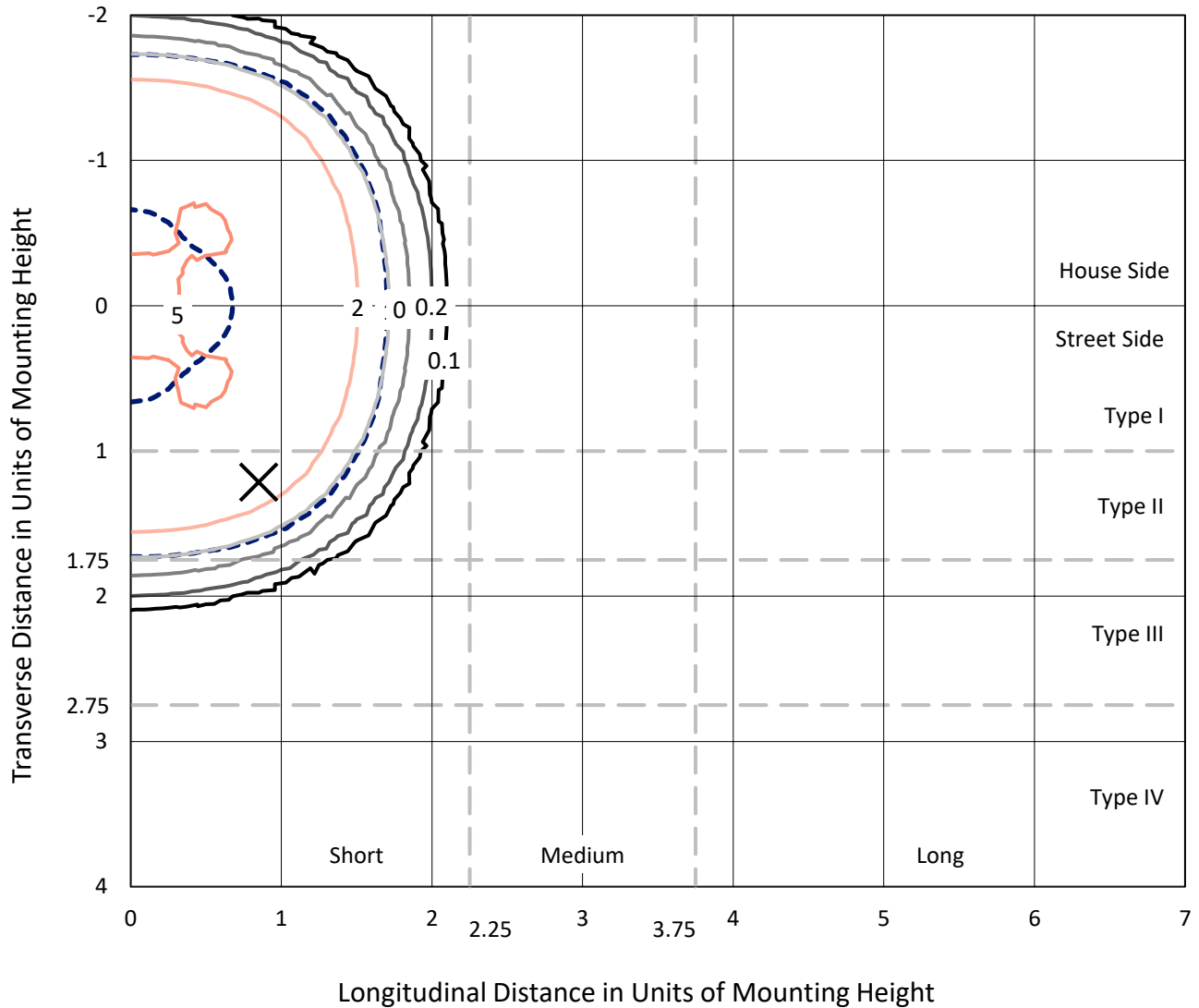
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

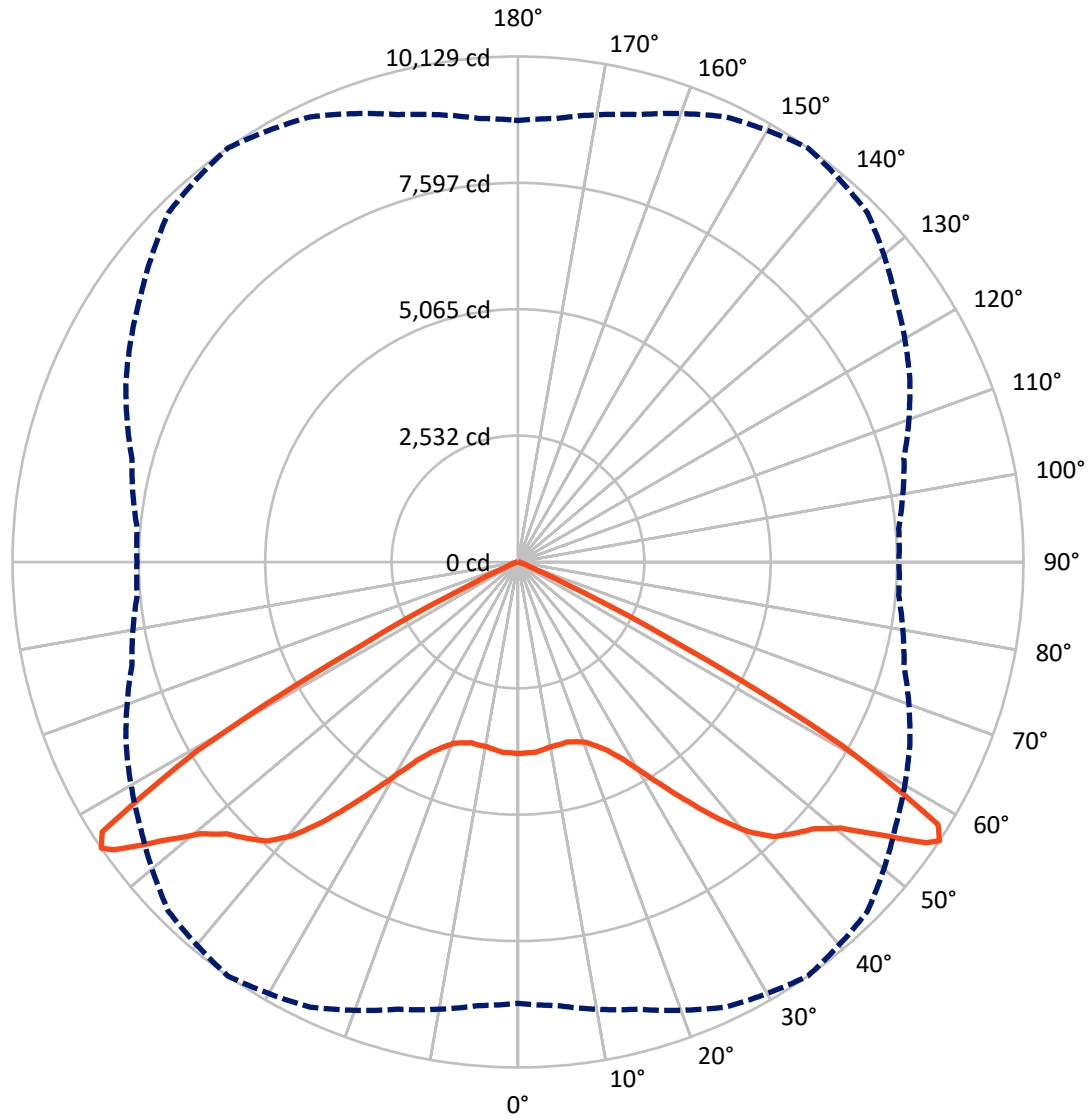
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10956.5	0.0	10956.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10956.5	0.0	10956.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21913.0	0.0	21913.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.9	1.6
10°-20°	1053.6	4.8
20°-30°	1907.8	8.7
30°-40°	3537.8	16.1
40°-50°	5807.1	26.5
50°-60°	7481.3	34.1
60°-70°	1648.8	7.5
70°-80°	95.7	0.4
80°-90°	20.1	0.1
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°	21913.0	100.0
0°-180°	21913.0	100.0

**Coefficient of Utilization**

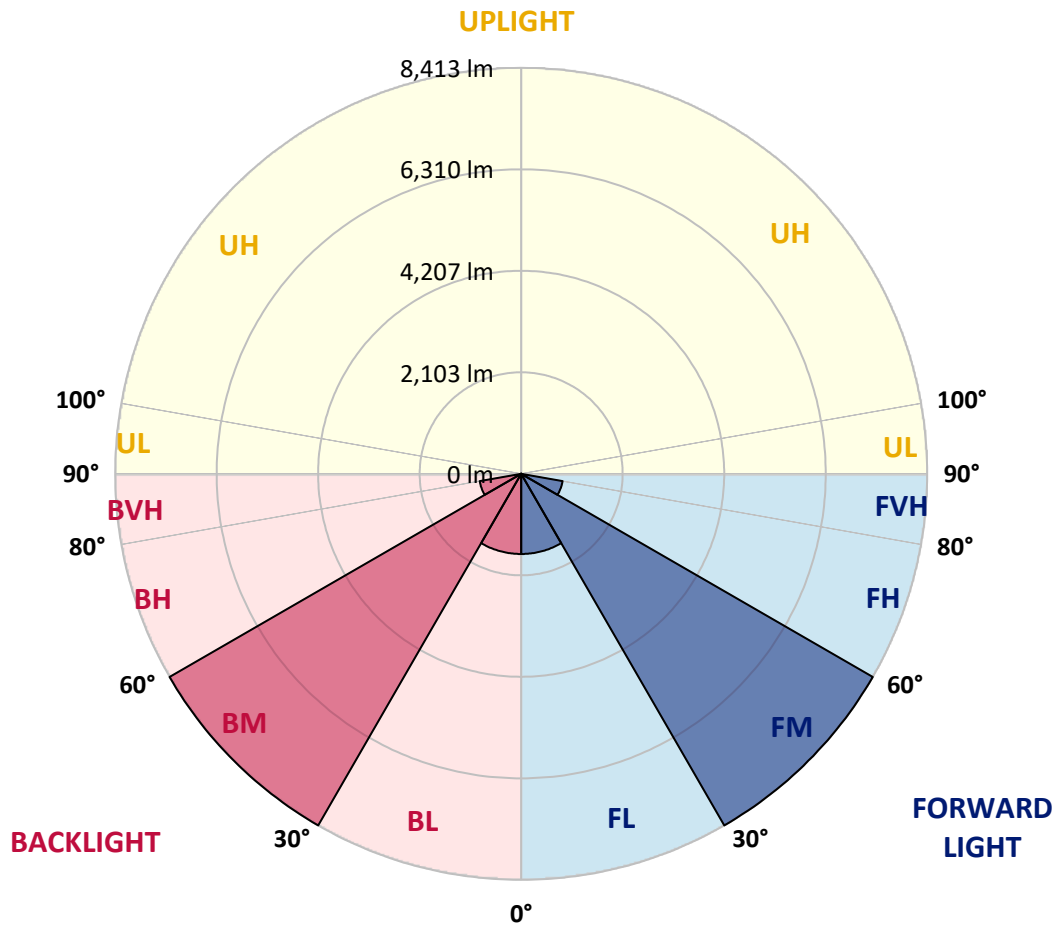


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.1	7.6			
FM (30°-60°)	8413.1	38.4			
FH (60°-80°)	872.2	4.0			G1/1800
FVH (80°-90°)	10.1	0.0			G1/100
BL (0°-30°)	1661.1	7.6	B3/2500		
BM (30°-60°)	8413.1	38.4	B4/8500		
BH (60°-80°)	872.2	4.0	B2/1000		G1/1800
BVH (80°-90°)	10.1	0.0			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°	3839.6	3839.6	3839.6	3839.6	3839.6	3839.6	3839.6	3839.6	3839.6	3839.6	3839.6
2.5°	3847.6	3847.6	3851.5	3855.5	3827.7	3815.8	3819.8	3811.8	3807.9	3819.8	3819.8
5°	3835.7	3835.7	3823.7	3827.7	3827.7	3792.0	3792.0	3799.9	3799.9	3776.1	3768.2
7.5°	3803.9	3796.0	3780.1	3799.9	3788.0	3788.0	3760.2	3740.4	3732.4	3748.3	3732.4
10°	3736.4	3740.4	3756.2	3764.2	3756.2	3780.1	3732.4	3704.6	3676.8	3664.9	3664.9
12.5°	3704.6	3728.5	3704.6	3724.5	3752.3	3732.4	3704.6	3684.8	3645.1	3629.2	3629.2
15°	3700.7	3716.5	3724.5	3752.3	3740.4	3748.3	3692.7	3668.9	3609.3	3581.5	3569.6
17.5°	3696.7	3716.5	3728.5	3780.1	3788.0	3792.0	3748.3	3676.8	3625.2	3597.4	3569.6
20°	3740.4	3748.3	3772.1	3823.7	3855.5	3911.1	3831.7	3756.2	3645.1	3613.3	3601.4
22.5°	3796.0	3835.7	3859.5	3915.1	3998.5	4046.1	3942.9	3847.6	3732.4	3692.7	3645.1
25°	3974.6	3966.7	4006.4	4121.5	4189.0	4224.8	4141.4	4002.4	3851.5	3803.9	3811.8
27.5°	4197.0	4204.9	4240.7	4367.7	4467.0	4522.6	4423.3	4240.7	4093.8	4014.3	4006.4
30°	4486.8	4478.9	4518.6	4689.4	4868.0	4951.4	4776.7	4562.3	4419.3	4316.1	4339.9
32.5°	4792.6	4796.6	4907.7	5062.6	5352.5	5515.2	5233.3	4971.3	4756.9	4685.4	4649.6
35°	5245.2	5265.1	5352.5	5590.7	5912.3	6122.8	5813.0	5499.4	5253.2	5122.2	5138.0
37.5°	5805.1	5785.3	5932.2	6190.3	6527.8	6682.6	6420.6	6063.2	5813.0	5725.7	5781.3
40°	6400.7	6420.6	6496.0	6730.3	7107.5	7210.7	6821.6	6627.0	6408.6	6365.0	6432.5
42.5°	6996.3	6984.4	7040.0	7250.4	7524.4	7452.9	7222.6	7107.5	6952.6	6865.3	6956.6
45°	7433.1	7413.2	7516.5	7659.4	7758.7	7623.7	7520.4	7480.7	7401.3	7306.0	7389.4
47.5°	7857.9	7842.1	7941.3	7981.0	7989.0	7810.3	7830.1	7901.6	7703.1	7504.5	7599.8
50°	8219.3	8191.5	8314.6	8401.9	8382.1	8096.2	8167.6	8096.2	7786.5	7552.2	7516.5
52.5°	8822.8	8834.7	8965.8	9124.6	9076.9	8838.7	8735.5	8409.9	8012.8	7802.3	7679.3
55°	9204.0	9144.4	9370.8	9875.0	9930.6	9684.4	9227.8	8747.4	8151.8	7893.7	7861.9
56°	8846.6	8922.1	9279.4	9843.3	10129.2	9902.8	9239.7	8664.0	8008.8	7659.4	7635.6
57.5°	7937.4	7897.6	8382.1	9152.4	9930.6	9835.3	8914.1	8068.4	7306.0	6912.9	6865.3
60°	4939.5	5054.7	5479.5	6432.5	7472.8	7520.4	6607.2	5880.5	4991.1	4641.7	4725.1
62.5°	1933.7	1834.4	2100.5	2811.2	3525.9	3684.8	3339.3	2775.5	2279.2	1933.7	1909.9
65°	448.7	436.8	492.4	679.0	949.0	1099.9	1044.3	750.5	551.9	524.1	484.4
67.5°	254.1	254.1	242.2	242.2	266.0	281.9	270.0	266.0	277.9	289.9	285.9
70°	178.7	174.7	166.8	170.7	162.8	162.8	174.7	194.6	210.4	210.4	214.4
72.5°	107.2	107.2	107.2	119.1	119.1	119.1	131.0	146.9	150.9	146.9	142.9
75°	47.6	47.6	55.6	67.5	75.4	79.4	91.3	99.3	107.2	99.3	91.3
77.5°	11.9	11.9	19.9	27.8	35.7	43.7	59.6	71.5	75.4	71.5	59.6
80°	4.0	4.0	7.9	19.9	35.7	43.7	59.6	63.5	67.5	59.6	47.6
82.5°	4.0	4.0	7.9	19.9	27.8	35.7	47.6	55.6	59.6	51.6	47.6
85°	0.0	4.0	7.9	15.9	23.8	31.8	31.8	23.8	19.9	11.9	15.9
87.5°	0.0	0.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)