

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: P648588

Luminaire Tested: **GALN-SA8B-835-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
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-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37119.7 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

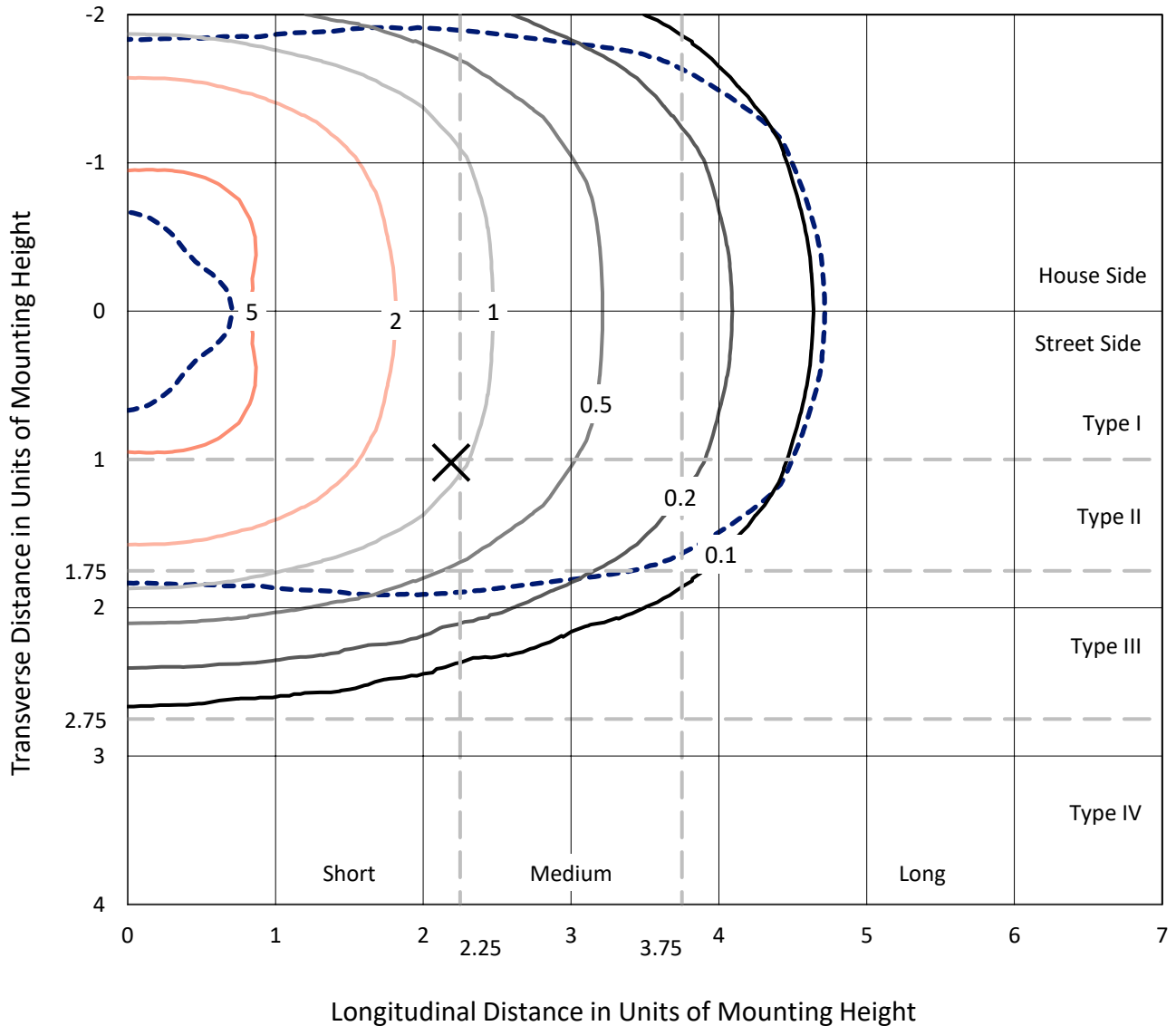
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

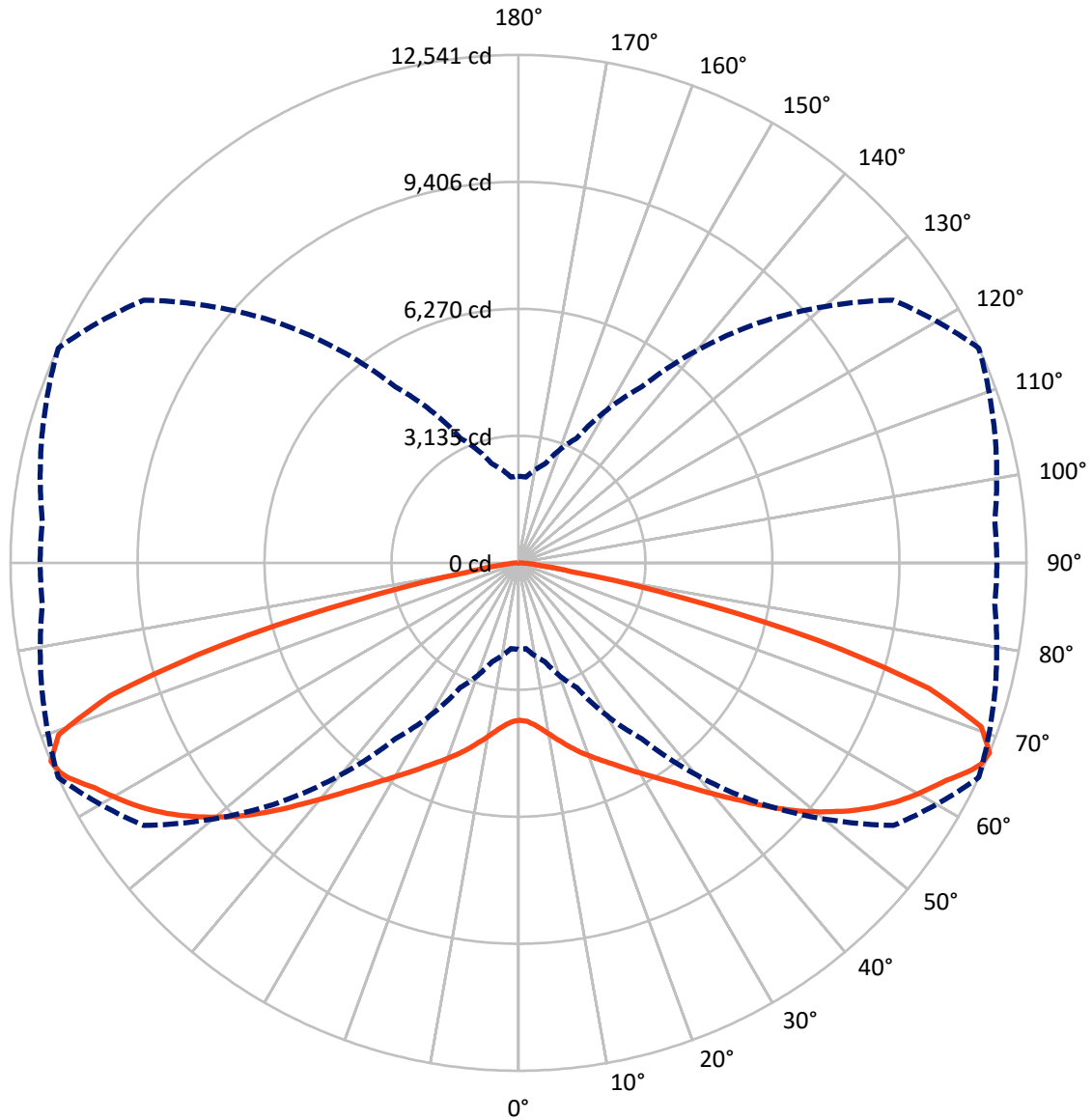
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18559.8	0.0	18559.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18559.8	0.0	18559.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37119.7	0.0	37119.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.5	1.0
10°-20°	1283.4	3.5
20°-30°	2510.4	6.8
30°-40°	4269.9	11.5
40°-50°	6758.0	18.2
50°-60°	8960.9	24.1
60°-70°	8452.9	22.8
70°-80°	4178.7	11.3
80°-90°	322.0	0.9
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°	37119.7	100.0
0°-180°	37119.7	100.0

**Coefficient of Utilization**

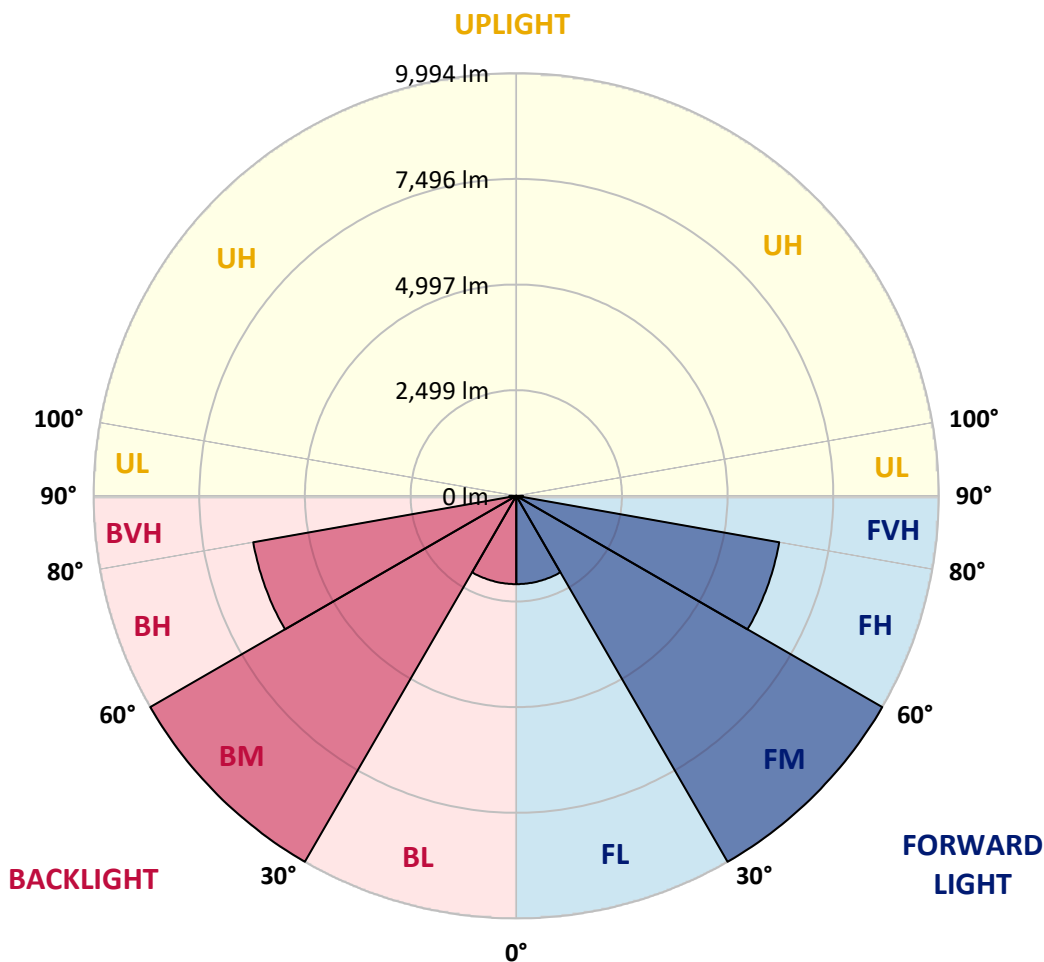


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2088.6	5.6			
FM	(30°-60°)	9994.4	26.9			
FH	(60°-80°)	6315.8	17.0			G3/7500
FVH	(80°-90°)	161.0	0.4			G2/225
BL	(0°-30°)	2088.6	5.6	B3/2500		
BM	(30°-60°)	9994.4	26.9	B5		
BH	(60°-80°)	6315.8	17.0	B5		G5
BVH	(80°-90°)	161.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0	3888.0
2.5°	3868.1	3872.0	3876.0	3882.0	3889.9	3901.8	3909.8	3915.8	3931.7	3933.7	3931.7
5°	3854.2	3858.2	3868.1	3886.0	3911.8	3947.7	3975.4	4009.3	4035.1	4053.0	4049.0
7.5°	3852.1	3860.1	3876.0	3913.8	3963.5	4025.2	4088.8	4146.5	4196.2	4236.0	4230.0
10°	3884.0	3893.9	3919.8	3975.4	4053.0	4142.5	4232.0	4317.5	4389.1	4440.9	4458.7
12.5°	3937.7	3945.6	3993.4	4076.9	4188.3	4299.6	4401.1	4506.5	4605.9	4693.4	4693.4
15°	4031.1	4045.1	4104.7	4226.0	4363.3	4492.5	4596.0	4707.3	4814.7	4914.1	4943.9
17.5°	4160.4	4180.3	4269.8	4424.9	4599.9	4719.2	4816.7	4908.2	5001.6	5097.1	5111.0
20°	4337.4	4357.3	4476.6	4663.5	4870.4	5013.5	5079.2	5101.1	5146.8	5238.3	5250.2
22.5°	4578.0	4597.9	4731.2	4942.0	5172.7	5327.8	5355.6	5304.0	5292.0	5363.6	5371.5
25°	4850.5	4868.4	5021.5	5248.2	5486.9	5655.9	5648.0	5520.7	5449.1	5492.8	5504.8
27.5°	5156.8	5182.6	5337.7	5572.4	5830.9	5980.1	5956.2	5771.3	5618.2	5610.2	5614.2
30°	5548.6	5576.4	5723.6	5948.3	6202.8	6340.0	6290.3	6041.8	5805.1	5725.5	5725.5
32.5°	5962.2	6031.8	6180.9	6415.7	6614.5	6713.9	6638.4	6340.0	6025.8	5914.5	5908.5
35°	6501.2	6538.9	6686.1	6914.8	7064.0	7141.5	6996.3	6676.2	6314.2	6183.0	6165.0
37.5°	7028.1	7060.0	7231.0	7449.8	7630.7	7626.7	7429.9	7075.9	6672.2	6525.0	6513.1
40°	7567.1	7600.9	7795.8	7996.7	8177.7	8161.8	7923.1	7527.3	7097.7	6932.7	6964.6
42.5°	8034.4	8072.3	8293.0	8579.3	8742.4	8738.4	8462.0	8016.6	7569.1	7421.9	7449.8
45°	8460.0	8493.8	8750.4	9078.6	9317.2	9347.0	9044.7	8573.4	8114.0	7925.1	7933.0
47.5°	8760.4	8823.9	9092.4	9468.3	9792.5	9897.9	9601.5	9140.2	8611.2	8414.3	8426.3
50°	8989.1	9028.9	9321.1	9748.7	10158.4	10377.2	10138.5	9665.2	9108.3	8899.6	8927.4
52.5°	9016.9	9064.6	9382.8	9876.0	10401.1	10733.1	10615.8	10178.3	9615.5	9400.7	9460.4
55°	8790.2	8818.0	9197.8	9796.4	10496.5	10997.6	11027.5	10655.6	10098.7	9935.6	9975.4
57.5°	8143.8	8215.4	8696.7	9424.6	10365.3	11138.9	11335.7	11089.2	10588.0	10426.9	10490.6
60°	7083.9	7155.4	7638.7	8561.5	9870.0	11073.3	11590.3	11473.0	11031.5	10902.2	10936.0
62.5°	5550.5	5544.6	6143.2	7274.8	8885.6	10751.1	11779.2	11842.9	11469.0	11305.9	11357.6
65°	3597.6	3615.5	4194.2	5413.3	7400.1	9931.7	11821.0	12314.2	11898.5	11652.0	11689.7
66°	2893.6	2947.3	3438.5	4562.1	6642.3	9394.7	11695.7	12453.4	12029.8	11731.5	11749.4
67.5°	2135.9	2125.9	2529.6	3396.7	5304.0	8374.5	11303.9	12540.9	12178.9	11803.1	11811.0
70°	1219.1	1217.1	1360.3	1865.4	3118.3	5896.5	9528.0	12121.3	12481.3	12061.6	12039.7
72.5°	891.0	884.9	904.8	1030.2	1521.4	2977.1	6572.7	10593.9	12326.1	12019.8	11958.2
75°	747.8	743.8	739.8	755.8	853.2	1348.3	3488.2	7620.8	10695.4	11282.0	11218.4
77.5°	610.5	610.5	612.5	608.5	612.5	709.9	1445.8	4084.8	6513.1	7270.8	7447.7
80°	477.3	475.3	509.1	495.2	463.4	455.4	640.3	1314.6	2161.7	2149.8	1774.0
82.5°	352.0	328.2	387.8	377.9	342.1	290.3	373.9	560.8	721.9	469.3	348.0
85°	222.8	220.7	274.4	250.6	208.8	137.3	179.0	240.6	298.3	181.0	147.2
87.5°	39.8	37.8	87.5	63.7	63.7	39.8	49.7	65.6	97.5	67.7	49.7
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)