

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: P648580

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30522.9 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

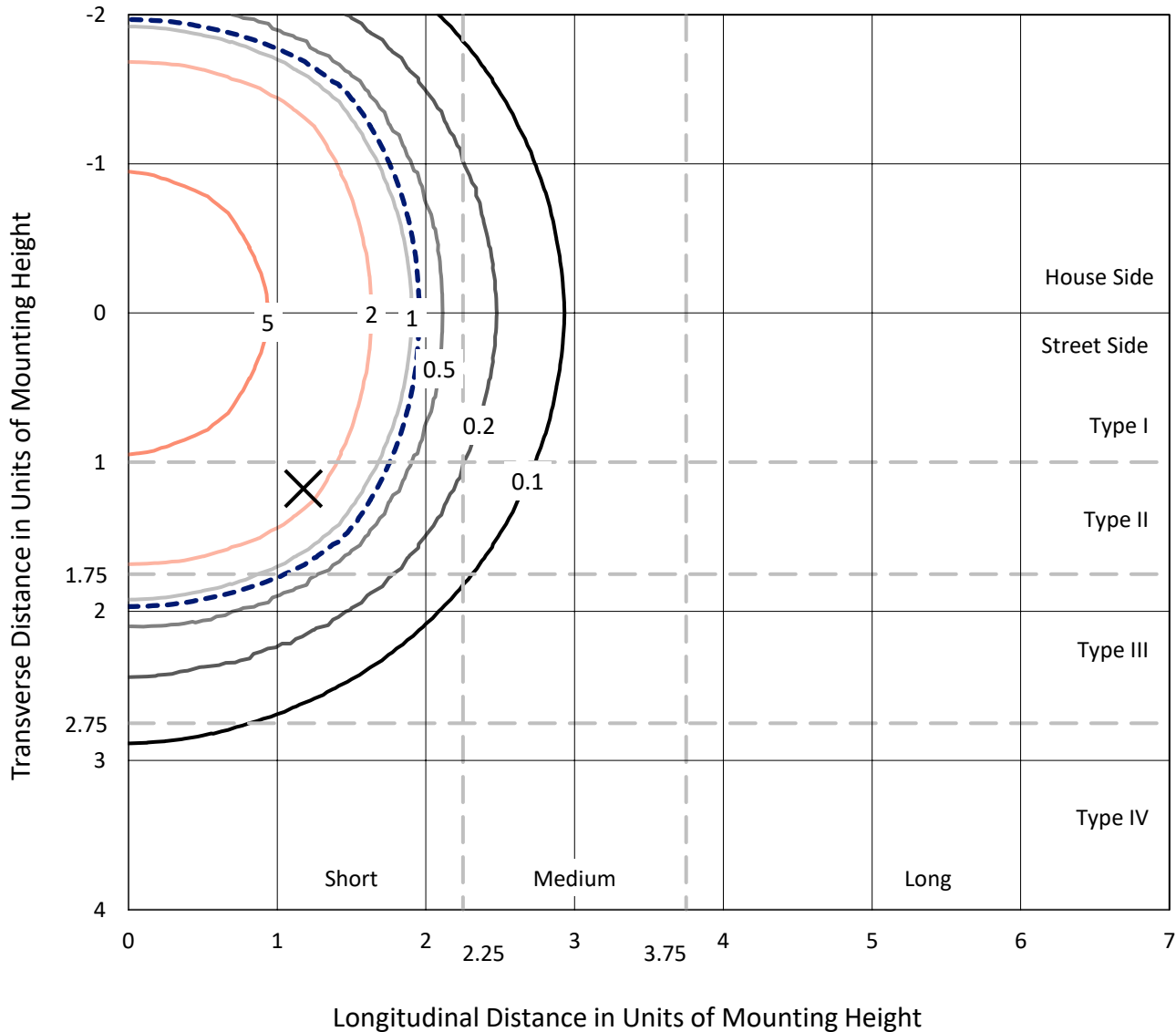
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

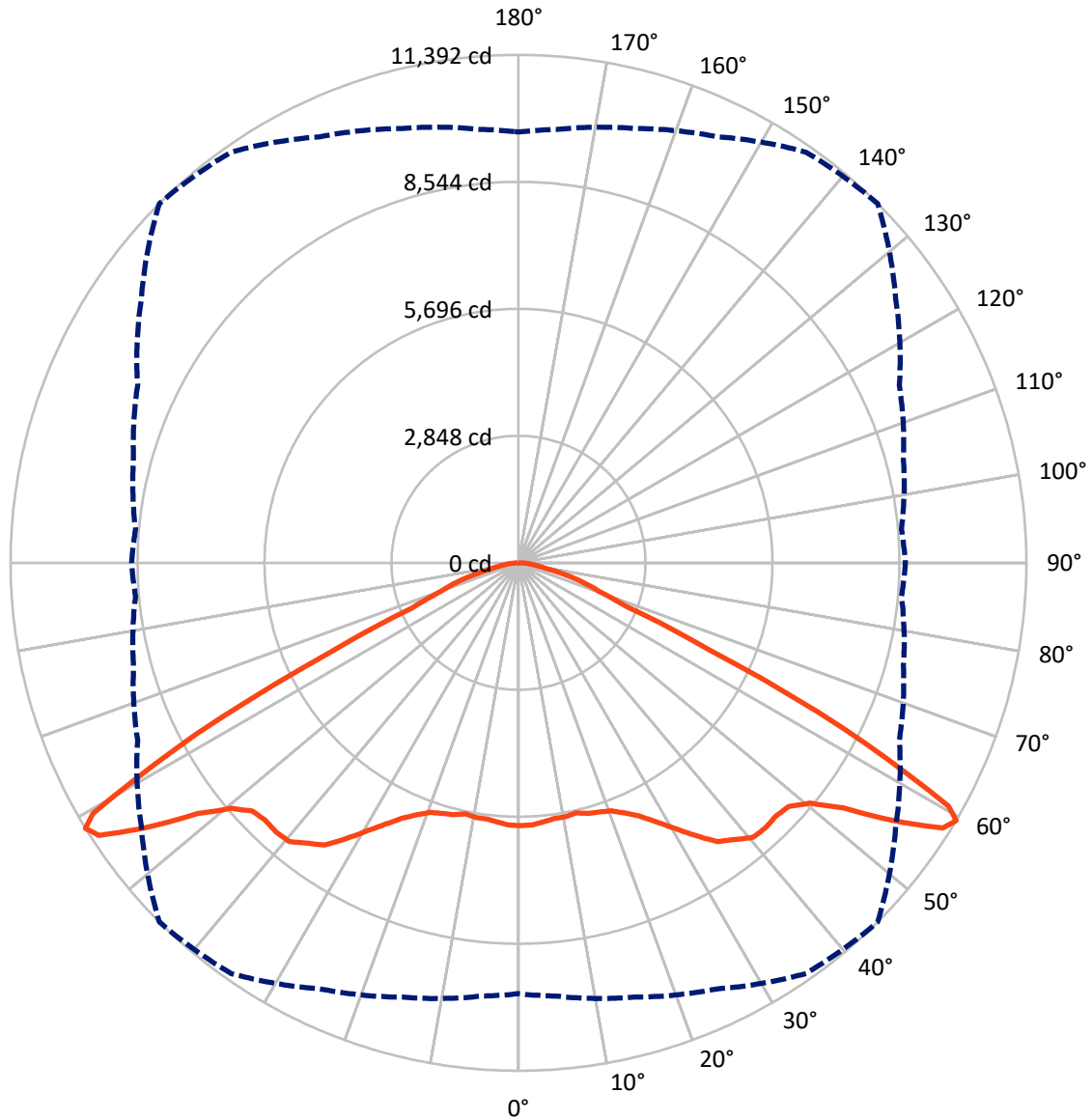
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15261.5	0.0	15261.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15261.5	0.0	15261.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30522.9	0.0	30522.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.8	1.8
10°-20°	1652.7	5.4
20°-30°	2885.9	9.5
30°-40°	4609.2	15.1
40°-50°	6278.6	20.6
50°-60°	8490.3	27.8
60°-70°	4656.1	15.3
70°-80°	1191.2	3.9
80°-90°	203.2	0.7
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°	30522.9	100.0
0°-180°	30522.9	100.0

**Coefficient of Utilization**

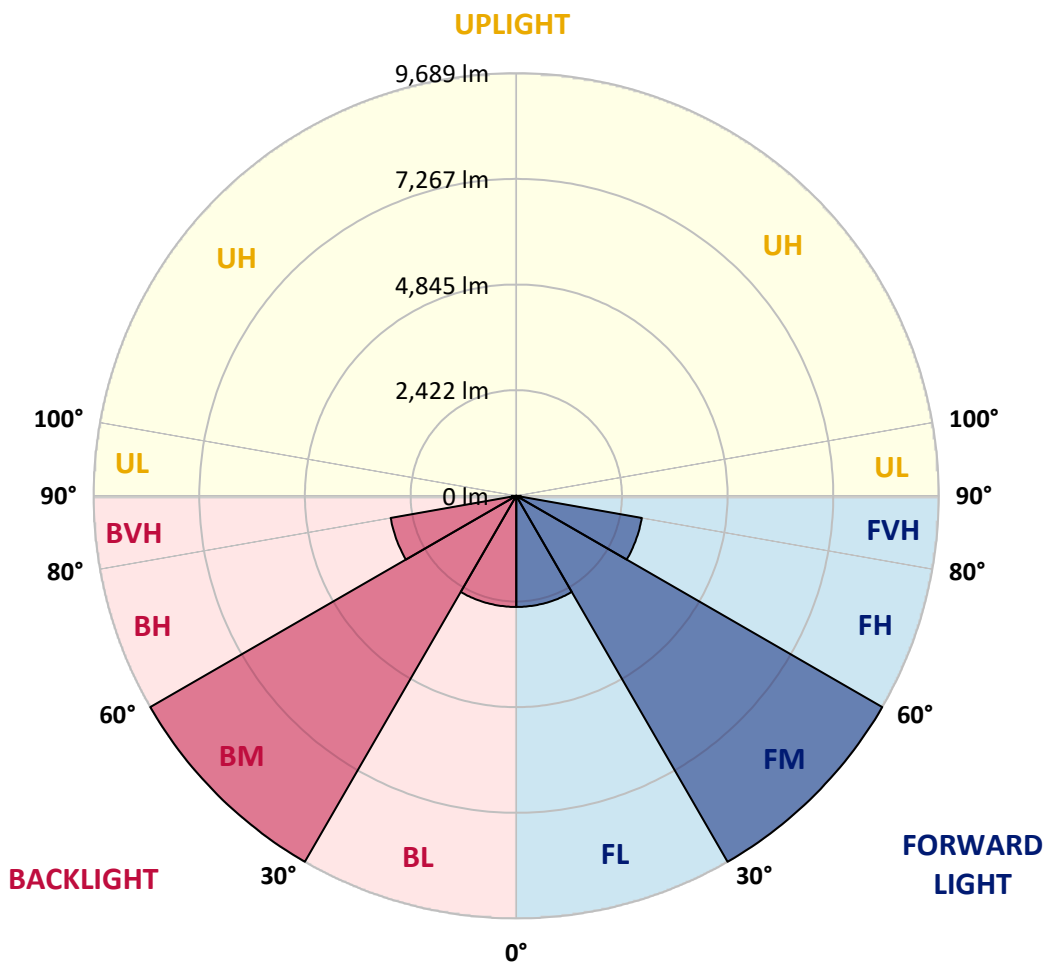


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2547.2	8.3			
FM (30°-60°)	9689.0	31.7			
FH (60°-80°)	2923.6	9.6			G2/5000
FVH (80°-90°)	101.6	0.3			G2/225
BL (0°-30°)	2547.2	8.3	B4/5000		
BM (30°-60°)	9689.0	31.7	B5		
BH (60°-80°)	2923.6	9.6	B4/5000		G2/5000
BVH (80°-90°)	101.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5895.6	5895.6	5895.6	5895.6	5895.6	5895.6	5895.6	5895.6	5895.6	5895.6	5895.6
2.5°	5860.4	5903.4	5872.1	5899.5	5895.6	5883.9	5864.3	5852.5	5836.9	5860.4	5821.2
5°	5836.9	5872.1	5907.3	5860.4	5860.4	5836.9	5825.1	5801.6	5801.6	5797.8	5793.9
7.5°	5876.0	5840.8	5825.1	5833.0	5840.8	5790.0	5825.1	5778.2	5739.1	5766.5	5797.8
10°	5840.8	5856.4	5797.8	5825.1	5782.1	5790.0	5766.5	5797.8	5754.7	5754.7	5754.7
12.5°	5876.0	5833.0	5852.5	5833.0	5821.2	5754.7	5786.1	5750.8	5746.9	5786.1	5750.8
15°	5946.4	5876.0	5860.4	5821.2	5833.0	5833.0	5801.6	5805.6	5762.6	5786.1	5793.9
17.5°	5922.9	5883.9	5872.1	5825.1	5864.3	5876.0	5817.3	5778.2	5805.6	5801.6	5797.8
20°	5942.5	5958.2	5946.4	5954.2	5969.9	5938.6	5883.9	5829.0	5793.9	5844.7	5840.8
22.5°	6067.7	6052.0	6044.2	6036.4	6063.8	6095.1	6020.7	5934.7	5934.7	5969.9	5985.6
25°	6169.4	6165.5	6161.6	6196.8	6290.7	6290.7	6196.8	6087.3	6059.9	6083.4	6063.8
27.5°	6318.1	6361.1	6345.4	6408.1	6544.9	6576.3	6451.1	6322.0	6247.6	6220.3	6255.5
30°	6658.4	6607.6	6619.3	6685.8	6807.1	6908.8	6717.1	6580.2	6478.5	6474.5	6490.2
32.5°	6885.3	6924.5	6959.7	7022.3	7213.9	7292.2	7061.4	6838.4	6775.8	6740.6	6752.4
35°	7339.1	7303.9	7296.1	7358.7	7550.4	7679.5	7390.0	7194.4	7112.2	7190.4	7190.4
37.5°	7769.5	7671.7	7597.4	7679.5	7855.5	7871.2	7624.7	7519.1	7476.1	7566.1	7562.1
40°	7972.9	7965.1	7793.0	7839.9	8074.6	8098.1	7867.3	7742.1	7734.2	7851.6	7969.0
42.5°	8184.2	8109.8	7937.7	7969.0	8113.8	8121.6	7902.5	7867.3	7953.3	8066.8	8074.6
45°	8219.4	8156.7	8047.2	7969.0	8074.6	8098.1	7969.0	7992.5	8000.3	8137.2	8137.2
47.5°	8289.8	8281.9	8219.4	8160.7	8180.2	8160.7	8078.5	8113.8	8231.1	8297.6	8266.3
50°	8485.4	8403.2	8465.8	8415.0	8418.9	8473.6	8399.3	8434.6	8411.1	8352.3	8313.3
52.5°	8915.7	8876.6	8931.4	8966.6	9005.7	9130.9	9044.8	8857.1	8681.0	8524.5	8520.6
55°	9545.6	9573.0	9678.6	9858.5	10011.1	10210.6	9796.0	9346.0	9064.4	8817.9	8833.6
57.5°	10140.2	10120.7	10265.4	10676.2	11122.1	11223.8	10410.1	9768.6	9310.8	9154.4	9087.9
59°	9662.9	9756.8	10085.4	10543.2	11243.4	11392.1	10328.0	9424.3	8939.2	8622.3	8677.0
60°	8911.8	8947.0	9240.4	9878.1	10824.8	11079.1	9776.4	8892.2	8246.7	8062.9	8145.0
62.5°	6298.5	6271.1	6482.4	7002.7	7851.6	8195.9	7268.7	6646.7	6239.8	6036.4	6083.4
65°	3348.8	3473.9	3560.1	3884.7	4334.6	4698.5	4315.0	4045.1	3818.2	3650.0	3646.1
67.5°	2261.2	2245.6	2265.1	2339.4	2492.1	2593.8	2585.9	2449.0	2429.4	2398.1	2433.3
70°	1905.2	1897.4	1862.1	1862.1	1893.5	1916.9	1944.3	1960.0	1991.2	2030.4	2026.5
72.5°	1545.3	1525.8	1502.3	1490.5	1529.7	1541.4	1576.6	1592.2	1619.6	1615.7	1650.9
75°	1021.0	1021.0	1048.4	1079.8	1091.5	1115.0	1118.8	1165.8	1165.8	1173.6	1142.3
77.5°	571.2	555.5	575.1	606.4	633.8	676.8	719.8	755.0	774.6	766.8	766.8
80°	332.5	332.5	352.1	387.3	422.5	461.7	492.9	520.3	539.9	532.0	516.4
82.5°	207.3	207.3	226.9	262.1	289.5	313.0	356.0	391.2	414.7	406.8	387.3
85°	105.6	105.6	129.1	152.6	187.8	203.4	199.5	183.8	179.9	160.4	160.4
87.5°	27.4	27.4	39.2	43.1	35.2	39.2	39.2	39.2	39.2	39.2	43.1
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)