

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: P648355

Luminaire Tested: **GALN-SA4B-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-835-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18485.9 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

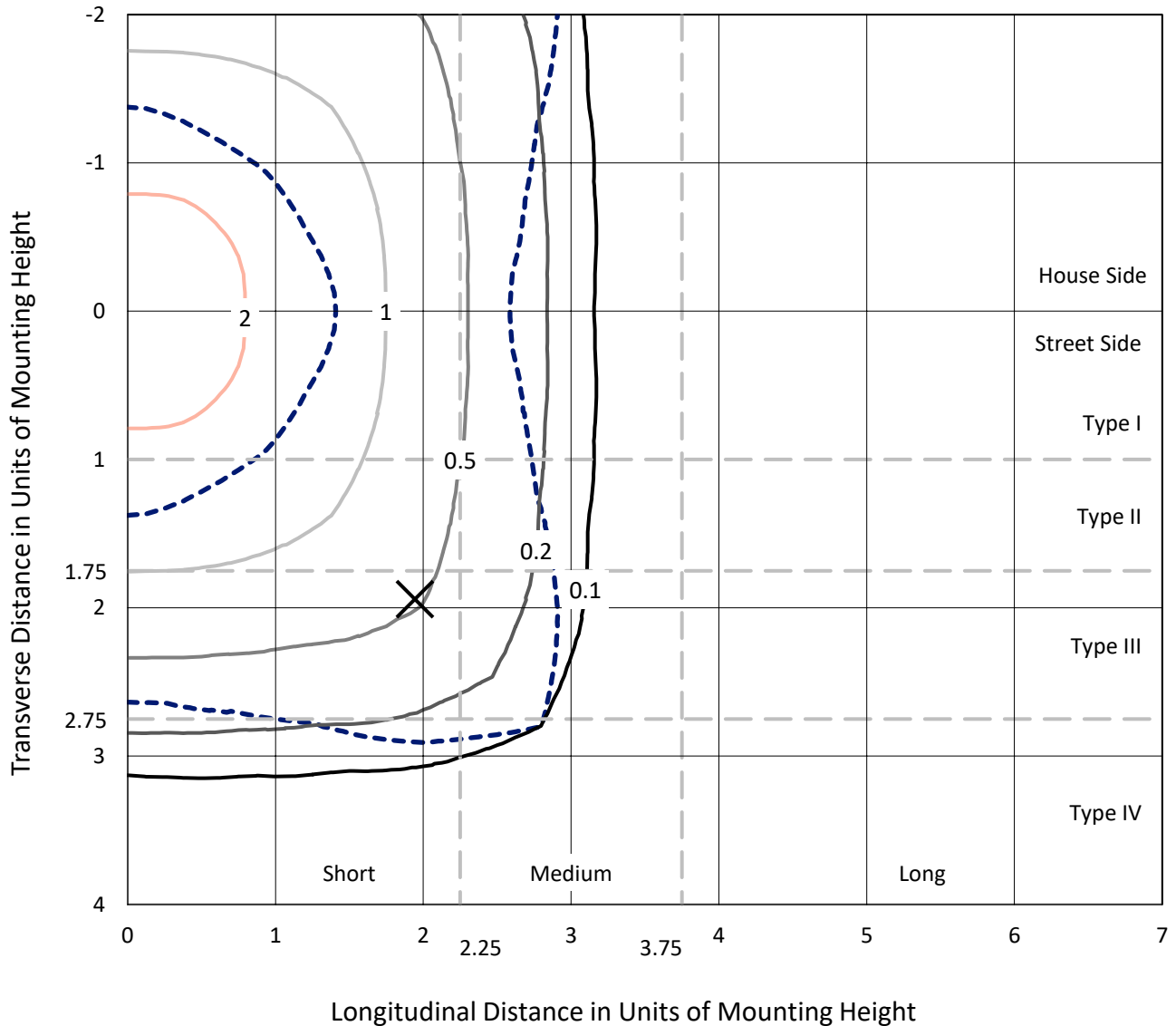
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

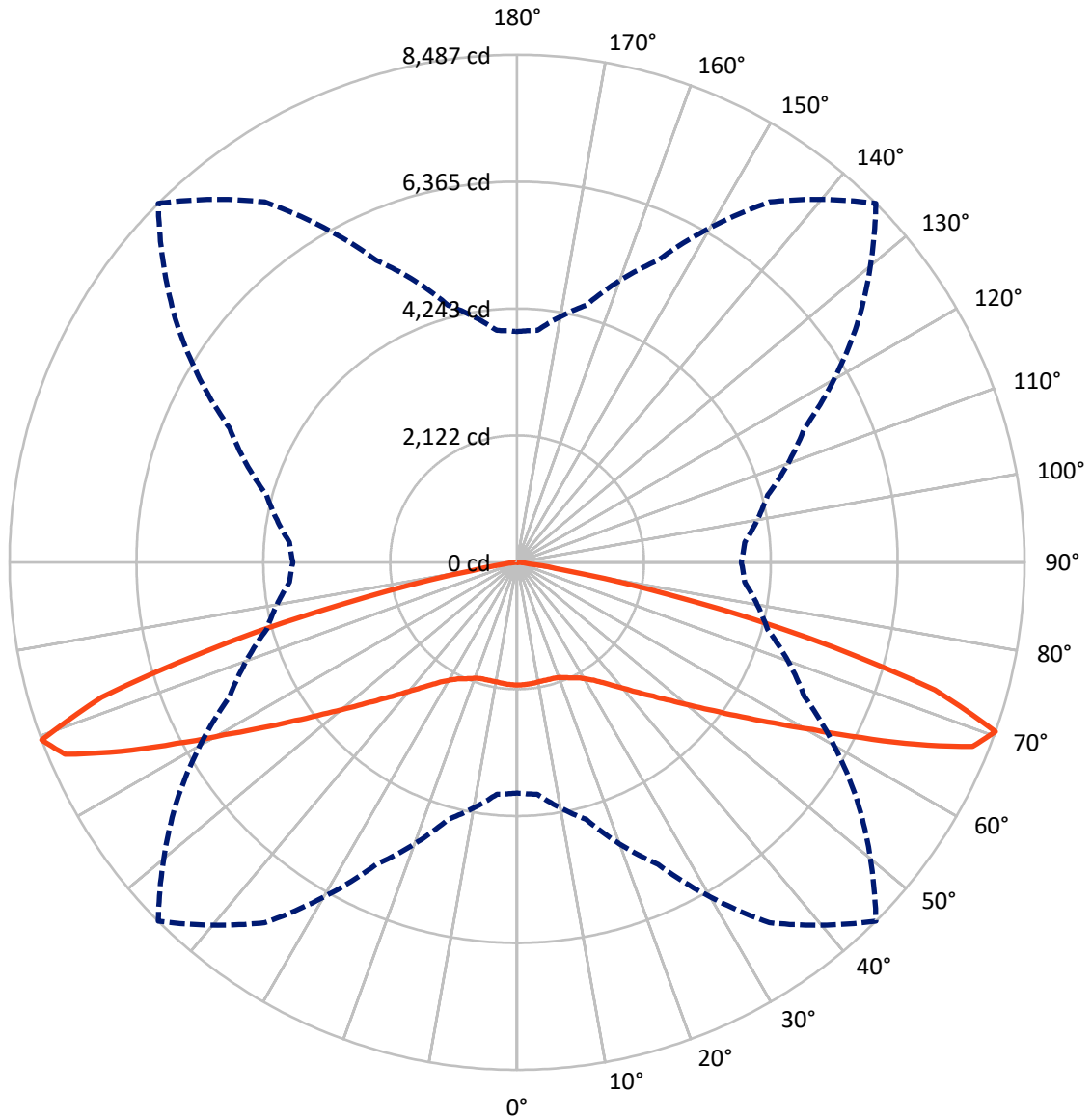
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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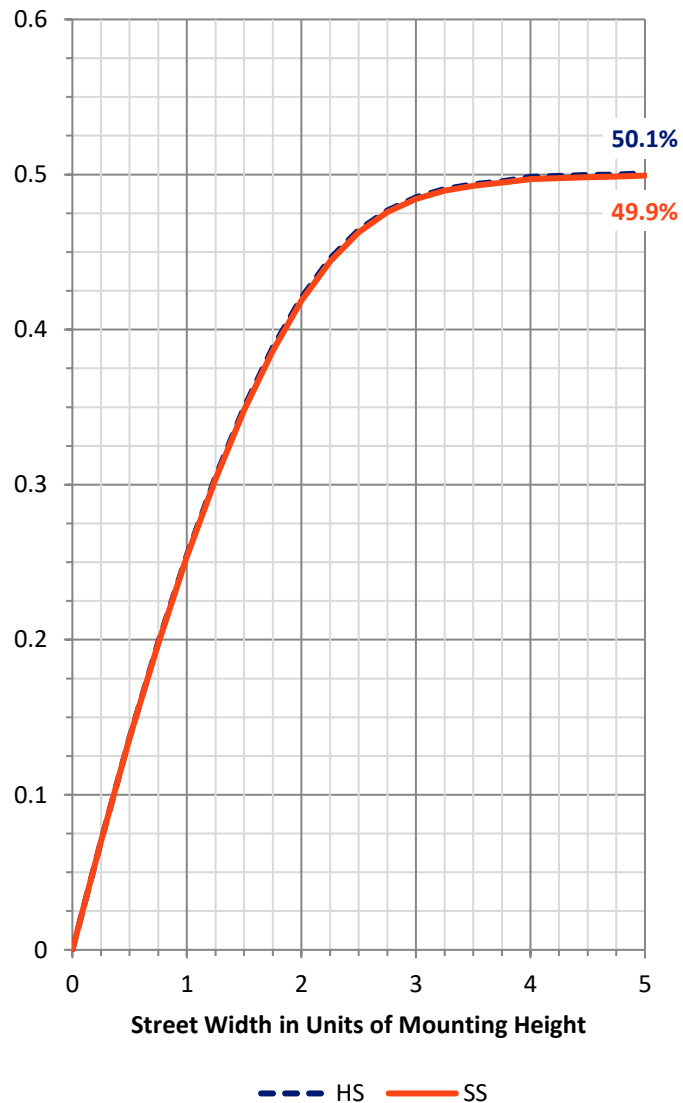
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9242.9	0.0	9242.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9242.9	0.0	9242.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18485.9	0.0	18485.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.7	1.1
10°-20°	571.2	3.1
20°-30°	977.0	5.3
30°-40°	1550.6	8.4
40°-50°	2501.6	13.5
50°-60°	4070.2	22.0
60°-70°	5900.3	31.9
70°-80°	2617.1	14.2
80°-90°	103.2	0.6
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°	18485.9	100.0
0°-180°	18485.9	100.0

**Coefficient of Utilization**

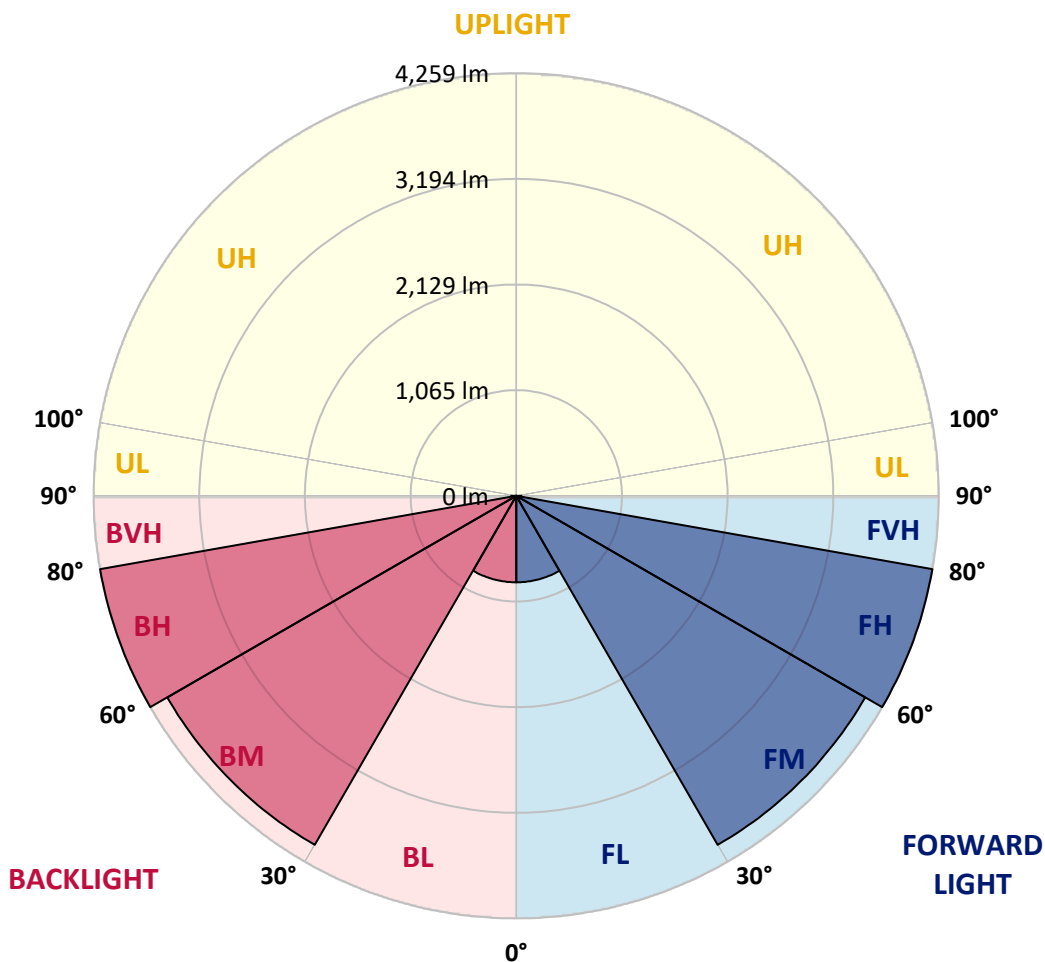


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.4	4.7			
FM (30°-60°)	4061.2	22.0			
FH (60°-80°)	4258.7	23.0			G2/5000
FVH (80°-90°)	51.6	0.3			G1/100
BL (0°-30°)	871.4	4.7	B2/1000		
BM (30°-60°)	4061.2	22.0	B3/5000		
BH (60°-80°)	4258.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	51.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8
2.5°	2052.8	2054.7	2051.8	2049.8	2048.9	2048.9	2047.9	2048.9	2054.7	2055.7	2052.8
5°	2046.9	2048.9	2047.9	2046.0	2045.0	2045.0	2044.0	2043.0	2047.9	2049.8	2048.9
7.5°	2039.1	2040.1	2039.1	2038.1	2039.1	2038.1	2035.3	2033.3	2037.2	2037.2	2036.2
10°	2025.5	2027.4	2026.5	2027.4	2029.4	2029.4	2025.5	2021.6	2022.6	2020.6	2020.6
12.5°	2008.9	2011.8	2012.9	2016.7	2021.6	2027.4	2018.7	2009.9	2007.9	2007.0	2006.0
15°	1998.2	2001.1	2005.0	2008.9	2017.7	2030.4	2017.7	2004.1	2000.2	1996.3	1994.3
17.5°	1995.3	1999.2	2005.0	2010.9	2022.6	2035.3	2024.5	2010.9	2001.1	1995.3	1993.4
20°	2003.1	2006.0	2014.7	2025.5	2042.1	2054.7	2044.0	2029.4	2014.7	2006.0	2003.1
22.5°	2018.7	2023.5	2034.2	2053.7	2077.1	2095.6	2081.1	2056.6	2033.3	2021.6	2017.7
25°	2052.8	2056.6	2069.3	2095.6	2122.9	2140.5	2124.8	2096.6	2064.5	2048.9	2044.0
27.5°	2104.4	2110.3	2123.9	2155.1	2177.4	2187.2	2176.5	2157.0	2133.6	2117.1	2113.2
30°	2177.4	2184.3	2204.8	2237.9	2252.5	2258.3	2253.5	2240.8	2224.3	2206.7	2202.8
32.5°	2275.9	2279.8	2303.1	2334.4	2348.0	2349.9	2344.1	2338.2	2310.9	2281.7	2279.8
35°	2386.0	2392.8	2421.0	2458.1	2470.8	2471.7	2460.0	2451.3	2419.1	2395.7	2395.7
37.5°	2532.1	2535.0	2562.3	2604.2	2617.8	2614.0	2608.1	2600.3	2566.2	2536.0	2537.0
40°	2703.5	2709.4	2732.8	2781.5	2781.5	2776.7	2780.5	2774.7	2740.6	2711.4	2712.3
42.5°	2907.2	2910.1	2938.4	2990.0	2986.1	2976.3	2980.3	2972.5	2951.0	2917.9	2906.2
45°	3124.5	3136.1	3184.9	3234.6	3226.7	3195.6	3211.2	3209.2	3189.7	3140.1	3143.0
47.5°	3386.6	3406.0	3452.8	3512.2	3503.5	3454.8	3472.3	3484.0	3456.7	3402.1	3392.3
50°	3681.7	3694.4	3763.6	3819.1	3811.3	3759.7	3799.6	3801.5	3733.3	3656.4	3656.4
52.5°	3996.4	4009.1	4102.6	4189.3	4194.2	4119.2	4151.3	4149.4	4038.3	3937.0	3917.5
55°	4349.1	4355.0	4475.8	4603.4	4630.7	4557.6	4561.5	4522.5	4378.3	4260.5	4249.7
57.5°	4713.5	4734.9	4868.4	5034.0	5114.9	5070.1	5049.6	4945.3	4806.1	4670.6	4663.8
60°	5116.8	5117.8	5291.2	5487.0	5650.7	5680.9	5597.1	5457.8	5277.6	5098.3	5090.5
62.5°	5396.4	5438.3	5657.6	5988.8	6282.0	6451.5	6230.4	5938.1	5583.5	5294.1	5264.9
65°	5453.9	5482.2	5816.4	6377.5	6976.7	7342.0	6830.5	6209.0	5603.9	5218.1	5198.7
67.5°	4989.2	5019.4	5469.5	6330.7	7463.8	8213.0	7220.3	6078.4	5257.1	4779.7	4741.7
70°	3859.0	3893.2	4449.5	5572.8	7355.7	8486.8	6942.5	5301.9	4335.5	3820.1	3750.9
72.5°	2051.8	2177.4	2652.9	3825.0	5970.3	7307.0	5692.6	3868.8	2796.1	2285.6	2194.0
75°	749.2	764.8	1029.8	1696.2	3473.2	5010.7	3606.7	1845.2	1061.0	819.3	777.4
77.5°	309.8	308.8	339.0	512.5	1261.6	2566.2	1407.8	541.7	338.1	312.7	308.8
80°	183.1	183.1	201.7	213.4	332.2	774.5	371.2	241.6	202.6	185.1	188.0
82.5°	81.8	86.7	127.6	134.4	160.7	212.3	179.2	153.9	132.5	91.6	82.8
85°	44.8	39.0	67.3	70.2	77.0	78.9	84.8	83.8	77.0	44.8	45.8
87.5°	8.8	10.7	19.5	14.6	16.6	14.6	19.5	27.2	28.3	15.6	12.7
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)