

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: P647371

Luminaire Tested: **GALN-SA4D-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647371  
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-SA4D-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25078.7 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

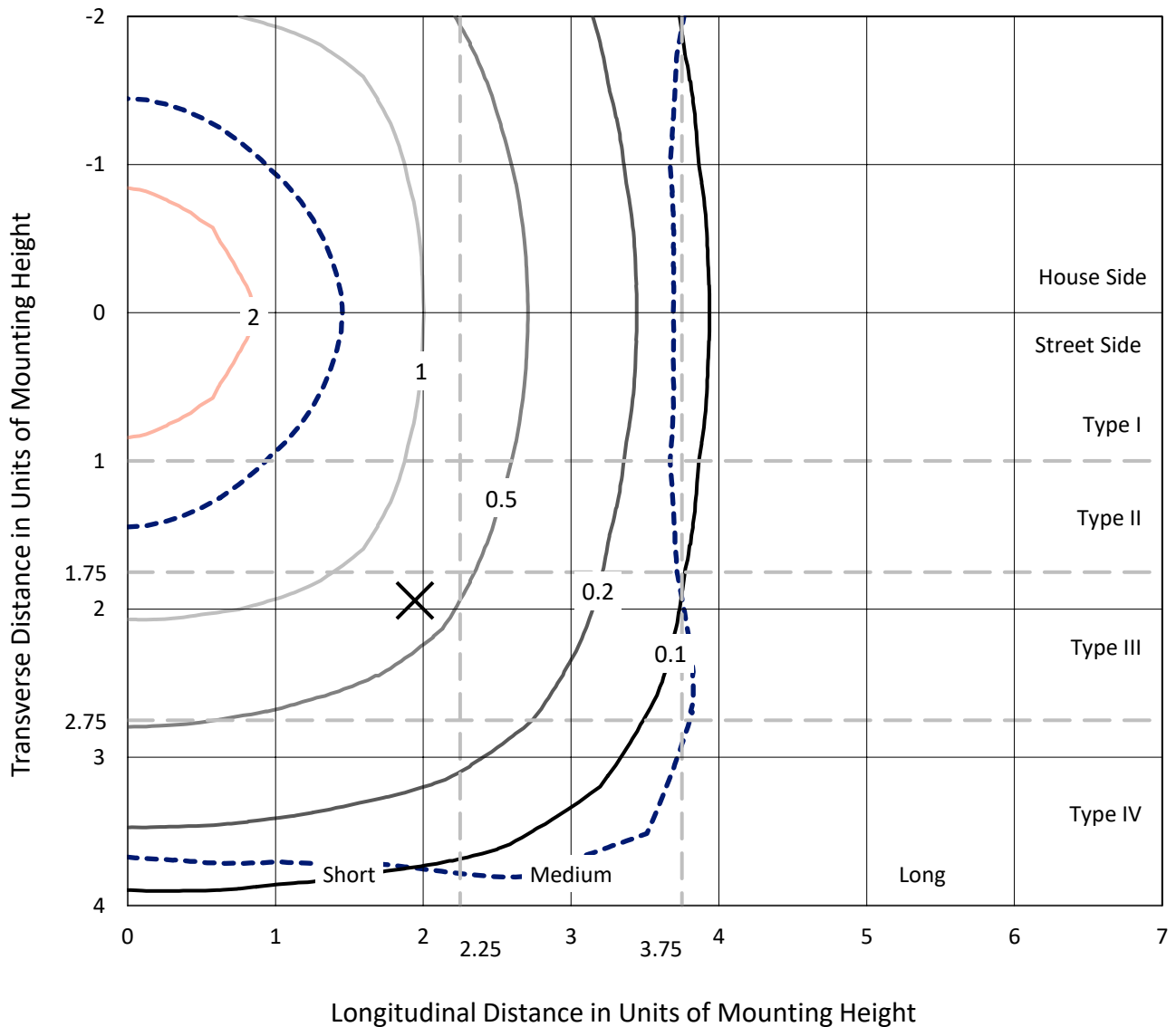
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

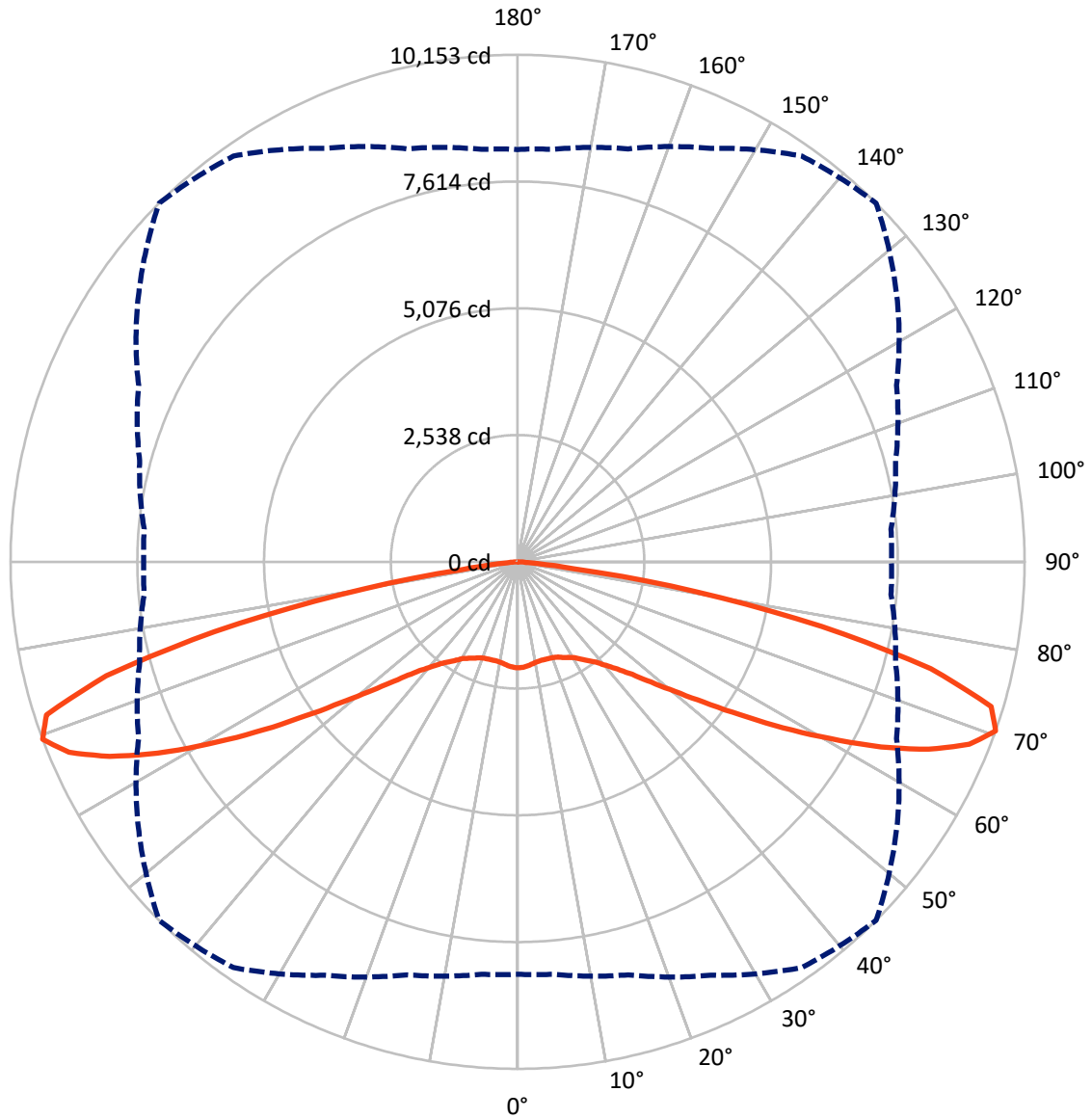
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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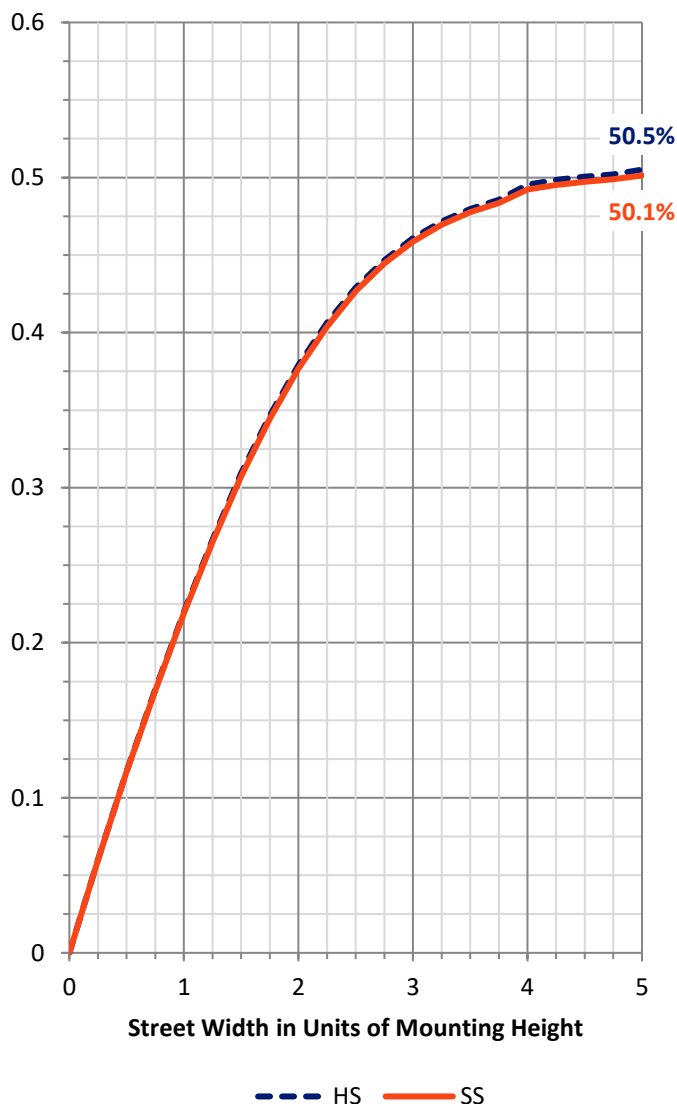
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12539.4	0.0	12539.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12539.4	0.0	12539.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25078.7	0.0	25078.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.6	0.8
10°-20°	581.3	2.3
20°-30°	990.4	3.9
30°-40°	1535.1	6.1
40°-50°	2583.8	10.3
50°-60°	4701.1	18.7
60°-70°	7958.9	31.7
70°-80°	6160.5	24.6
80°-90°	369.1	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°	25078.7	100.0
0°-180°	25078.7	100.0

**Coefficient of Utilization**



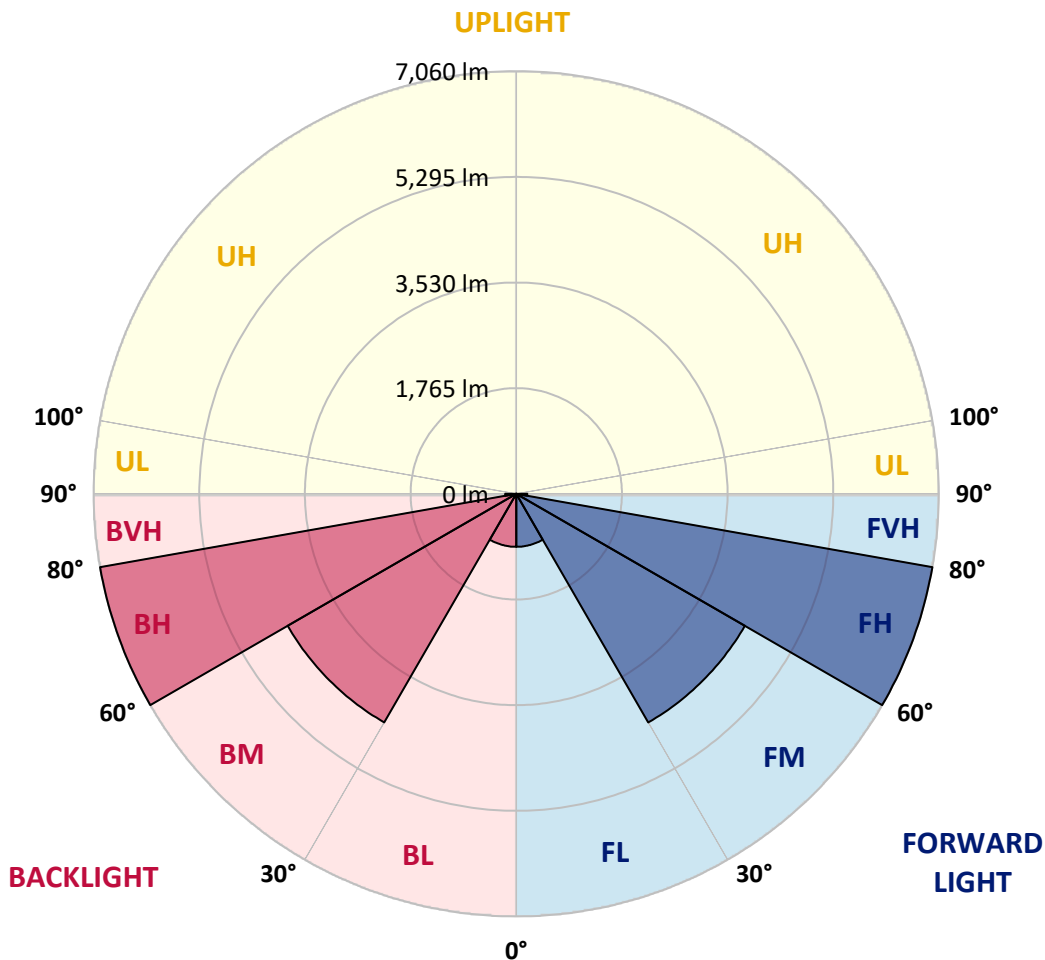
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.1	3.5			
FM (30°-60°)	4410.0	17.6			
FH (60°-80°)	7059.7	28.1			G3/7500
FVH (80°-90°)	184.6	0.7			G2/225
BL (0°-30°)	885.1	3.5	B2/1000		
BM (30°-60°)	4410.0	17.6	B3/5000		
BH (60°-80°)	7059.7	28.1	B5		G3/7500
BVH (80°-90°)	184.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2123.2	2123.2	2123.2	2123.2	2123.2	2123.2	2123.2	2123.2	2123.2	2123.2	2123.2
2.5°	2117.9	2119.3	2119.3	2116.6	2115.3	2115.3	2113.9	2113.9	2117.9	2119.3	2120.6
5°	2099.4	2099.4	2099.4	2098.0	2095.4	2095.4	2092.7	2092.7	2094.1	2098.0	2095.4
7.5°	2074.2	2076.8	2076.8	2071.6	2067.6	2067.6	2066.3	2067.6	2068.9	2072.9	2071.6
10°	2066.3	2067.6	2060.9	2051.7	2045.0	2041.1	2042.5	2045.0	2051.7	2054.4	2055.7
12.5°	2071.6	2071.6	2059.6	2046.4	2034.5	2029.1	2027.9	2037.1	2049.0	2057.0	2059.6
15°	2078.2	2075.5	2060.9	2043.8	2031.8	2030.5	2029.1	2035.8	2053.0	2068.9	2070.3
17.5°	2082.2	2080.8	2062.3	2041.1	2034.5	2034.5	2033.1	2038.5	2057.0	2076.8	2078.2
20°	2095.4	2091.4	2070.3	2047.7	2042.5	2045.0	2041.1	2047.7	2067.6	2091.4	2096.7
22.5°	2121.9	2117.9	2096.7	2074.2	2071.6	2071.6	2070.3	2076.8	2098.0	2123.2	2127.2
25°	2153.7	2149.7	2129.8	2113.9	2116.6	2121.9	2119.3	2120.6	2137.8	2159.0	2165.6
27.5°	2196.1	2189.4	2172.2	2159.0	2167.0	2167.0	2167.0	2165.6	2176.2	2196.1	2202.7
30°	2247.8	2245.1	2226.5	2225.2	2231.9	2225.2	2225.2	2226.5	2227.9	2246.4	2253.0
32.5°	2315.3	2310.0	2300.7	2298.0	2316.6	2321.9	2303.4	2286.1	2295.4	2313.9	2317.9
35°	2426.5	2418.6	2405.4	2390.8	2405.4	2430.5	2390.8	2377.5	2401.4	2426.5	2429.2
37.5°	2577.6	2573.6	2552.3	2525.9	2524.5	2551.0	2510.0	2508.7	2553.7	2584.1	2588.1
40°	2767.0	2770.9	2744.4	2719.3	2706.0	2727.2	2695.4	2707.3	2751.1	2785.5	2782.9
42.5°	3033.2	3018.6	2977.5	2953.7	2939.1	2931.2	2923.3	2941.8	2990.8	3027.9	3057.0
45°	3344.4	3339.1	3287.5	3258.4	3226.6	3214.6	3211.9	3245.1	3304.7	3349.8	3353.7
47.5°	3696.8	3684.9	3651.8	3621.3	3609.3	3594.8	3581.5	3606.7	3666.3	3698.1	3707.3
50°	4059.7	4062.4	4062.4	4057.0	4068.9	4071.6	4035.8	4045.1	4078.3	4075.6	4072.9
52.5°	4474.3	4488.9	4557.7	4564.3	4621.3	4659.7	4594.8	4556.4	4544.5	4473.0	4478.2
55°	4961.7	4974.9	5078.2	5181.6	5335.2	5400.1	5263.6	5144.5	5059.7	4951.1	4956.4
57.5°	5569.6	5576.3	5674.2	5873.0	6116.6	6269.0	6029.3	5793.5	5621.3	5518.0	5476.9
60°	6224.0	6230.6	6373.6	6616.0	6994.9	7180.3	6883.6	6498.1	6280.9	6123.3	6133.9
62.5°	7009.4	7035.9	7164.4	7498.2	7957.8	8165.8	7772.4	7257.1	6963.1	6767.0	6775.0
65°	7850.5	7895.5	8035.9	8402.8	8826.7	9050.5	8568.4	7973.7	7608.1	7368.3	7393.6
67.5°	8396.2	8435.9	8638.6	9043.9	9572.3	9757.8	9135.3	8442.5	7985.6	7699.5	7646.5
70°	8257.1	8290.2	8560.5	9135.3	9918.1	10152.5	9270.4	8373.6	7836.0	7506.1	7484.9
72.5°	7288.9	7220.0	7614.8	8439.9	9523.4	9916.8	8845.2	7647.8	6971.0	6631.9	6592.2
75°	4830.6	4980.2	5563.1	6535.2	8057.1	8544.6	7549.8	6140.5	5288.9	5006.7	4963.0
77.5°	1614.6	1729.8	2247.8	3704.7	5492.8	6225.3	5500.7	4016.0	2841.1	2288.8	2299.4
80°	427.8	422.5	547.0	1018.5	2373.6	3605.4	2763.0	1360.3	744.4	539.1	511.3
82.5°	153.6	172.2	221.2	282.1	629.1	1120.6	790.8	381.5	279.5	206.6	200.0
85°	67.6	66.2	95.4	112.6	157.6	209.3	185.4	161.6	141.7	94.0	87.4
87.5°	14.6	14.6	22.6	17.2	27.8	27.8	34.5	41.0	42.4	27.8	22.6
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)