

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: P652376

Luminaire Tested: **GALN-SA5B-840-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652376  
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-SA5B-840-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25082 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

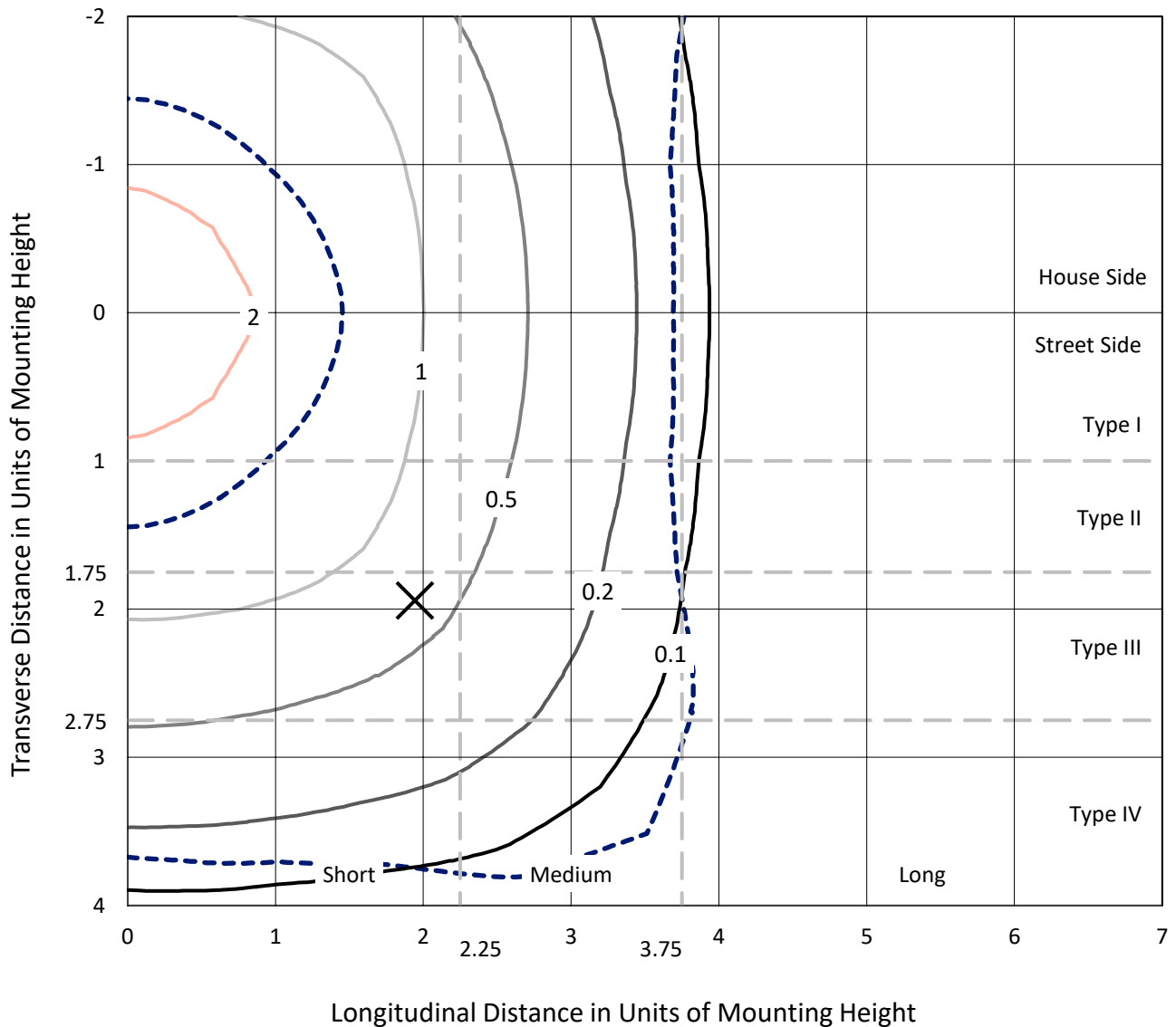
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

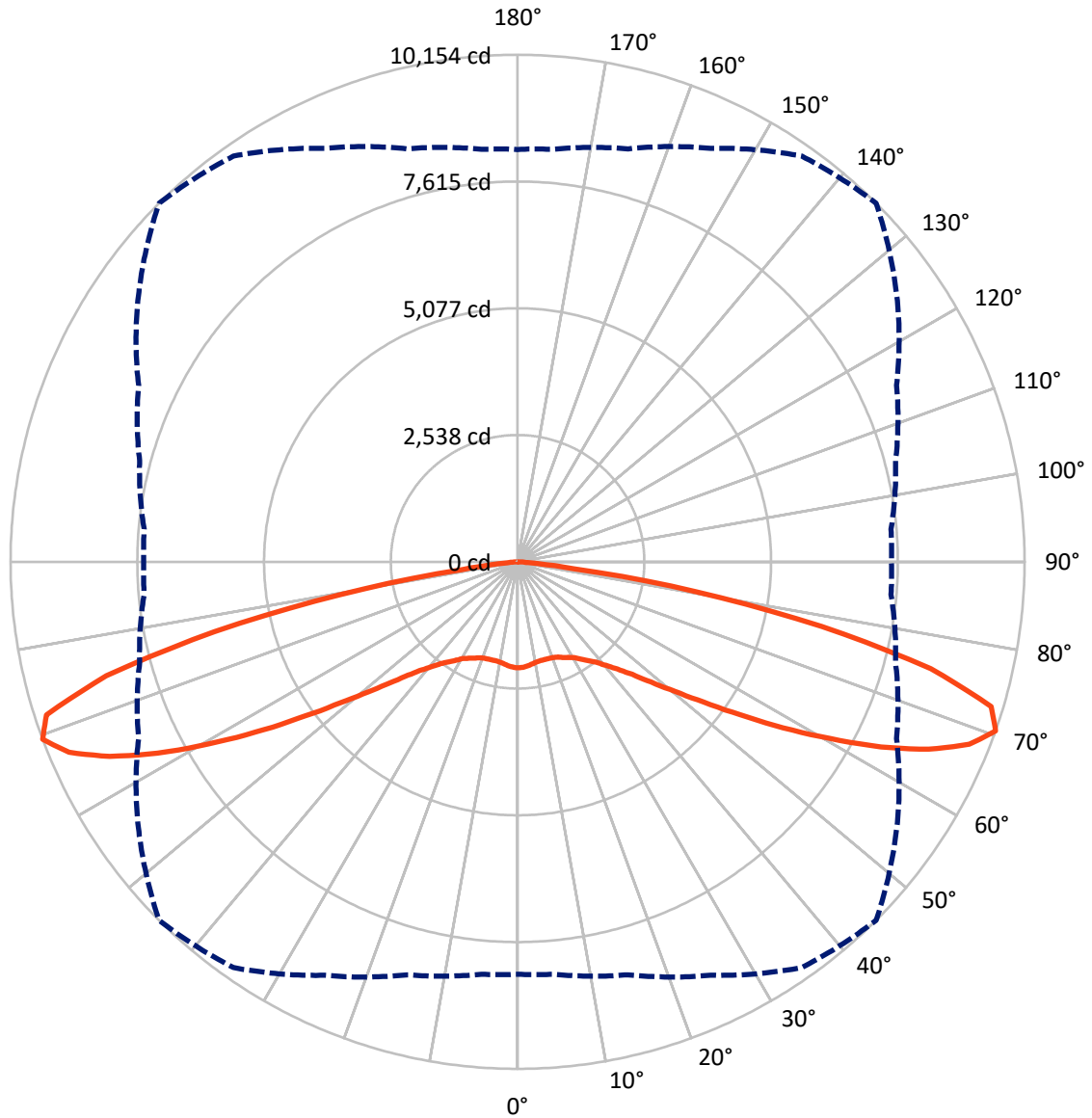
✕ Max cd  
 - - - 1/2 Max cd



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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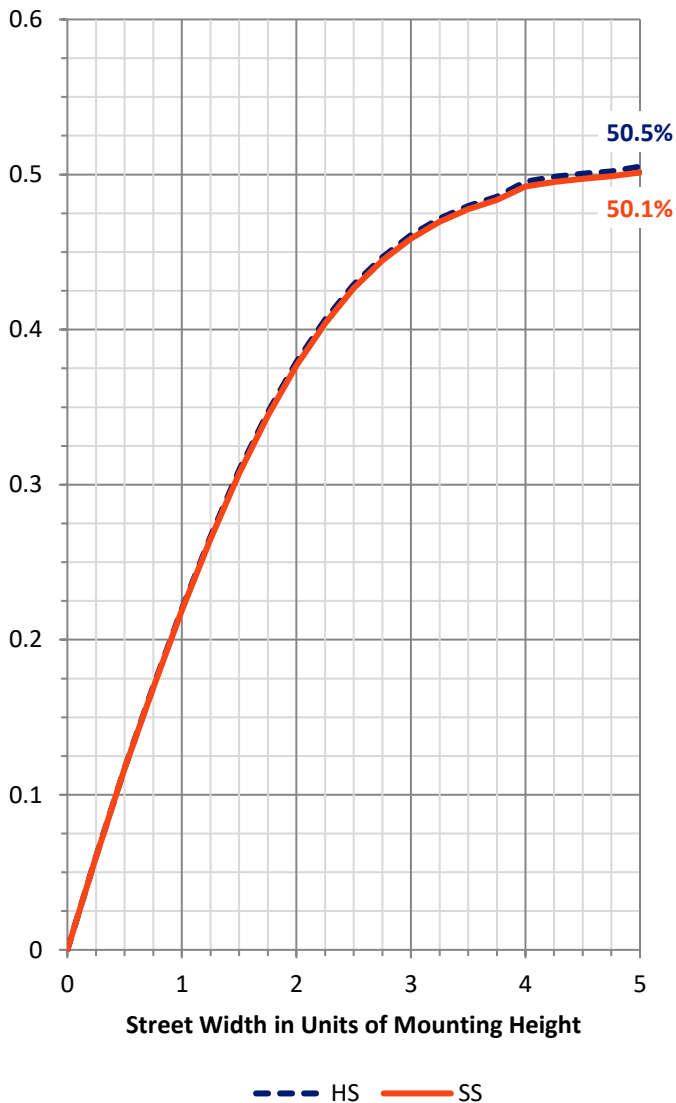
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12541.0	0.0	12541.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12541.0	0.0	12541.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25082.0	0.0	25082.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.6	0.8
10°-20°	581.4	2.3
20°-30°	990.5	3.9
30°-40°	1535.3	6.1
40°-50°	2584.1	10.3
50°-60°	4701.7	18.7
60°-70°	7959.9	31.7
70°-80°	6161.3	24.6
80°-90°	369.2	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°	25082.0	100.0
0°-180°	25082.0	100.0



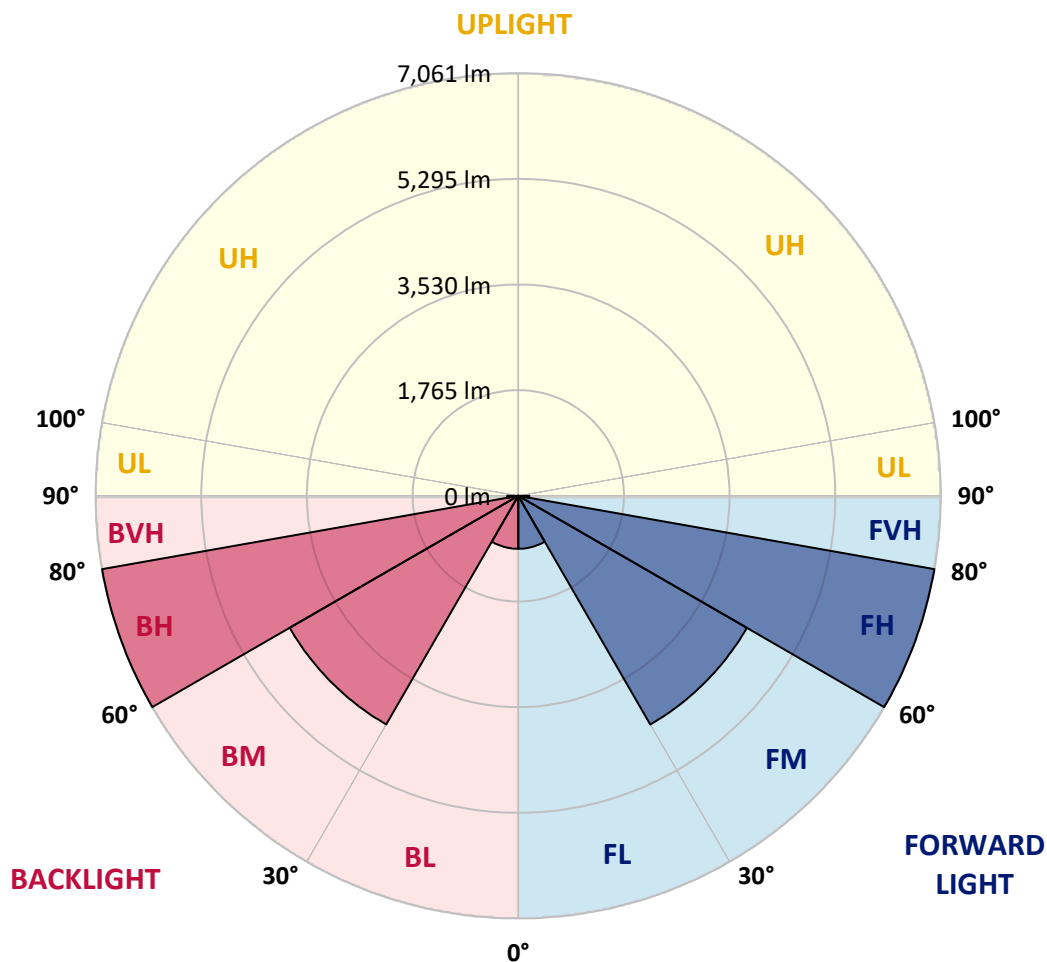
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.2	3.5			
FM (30°-60°)	4410.6	17.6			
FH (60°-80°)	7060.6	28.1			G3/7500
FVH (80°-90°)	184.6	0.7			G2/225
BL (0°-30°)	885.2	3.5	B2/1000		
BM (30°-60°)	4410.6	17.6	B3/5000		
BH (60°-80°)	7060.6	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°	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5
2.5°	2118.2	2119.5	2119.5	2116.9	2115.5	2115.5	2114.2	2114.2	2118.2	2119.5	2120.8
5°	2099.6	2099.6	2099.6	2098.3	2095.7	2095.7	2093.0	2093.0	2094.3	2098.3	2095.7
7.5°	2074.5	2077.1	2077.1	2071.8	2067.9	2067.9	2066.5	2067.9	2069.2	2073.1	2071.8
10°	2066.5	2067.9	2061.2	2052.0	2045.3	2041.4	2042.7	2045.3	2052.0	2054.6	2055.9
12.5°	2071.8	2071.8	2059.9	2046.7	2034.7	2029.4	2028.2	2037.4	2049.3	2057.3	2059.9
15°	2078.4	2075.8	2061.2	2044.1	2032.1	2030.8	2029.4	2036.1	2053.3	2069.2	2070.5
17.5°	2082.4	2081.1	2062.6	2041.4	2034.7	2034.7	2033.5	2038.8	2057.3	2077.1	2078.4
20°	2095.7	2091.7	2070.5	2048.0	2042.7	2045.3	2041.4	2048.0	2067.9	2091.7	2097.0
22.5°	2122.2	2118.2	2097.0	2074.5	2071.8	2071.8	2070.5	2077.1	2098.3	2123.5	2127.5
25°	2154.0	2150.0	2130.1	2114.2	2116.9	2122.2	2119.5	2120.8	2138.1	2159.3	2165.9
27.5°	2196.4	2189.7	2172.5	2159.3	2167.2	2167.2	2167.2	2165.9	2176.5	2196.4	2203.0
30°	2248.0	2245.4	2226.8	2225.5	2232.1	2225.5	2225.5	2226.8	2228.1	2246.7	2253.3
32.5°	2315.6	2310.3	2301.0	2298.4	2316.9	2322.2	2303.7	2286.4	2295.7	2314.3	2318.2
35°	2426.9	2418.9	2405.7	2391.0	2405.7	2430.8	2391.0	2377.8	2401.6	2426.9	2429.5
37.5°	2577.8	2573.9	2552.7	2526.2	2524.9	2551.3	2510.3	2509.0	2554.0	2584.5	2588.4
40°	2767.3	2771.3	2744.8	2719.6	2706.3	2727.5	2695.7	2707.7	2751.4	2785.8	2783.2
42.5°	3033.6	3019.0	2977.9	2954.1	2939.5	2931.6	2923.7	2942.2	2991.2	3028.3	3057.4
45°	3344.9	3339.6	3287.9	3258.8	3227.0	3215.1	3212.4	3245.5	3305.1	3350.2	3354.2
47.5°	3697.2	3685.3	3652.2	3621.8	3609.8	3595.3	3582.0	3607.1	3666.8	3698.5	3707.8
50°	4060.2	4062.9	4062.9	4057.6	4069.5	4072.1	4036.4	4045.6	4078.8	4076.1	4073.5
52.5°	4474.9	4489.4	4558.3	4564.9	4621.9	4660.3	4595.4	4557.0	4545.0	4473.5	4478.8
55°	4962.3	4975.6	5078.9	5182.2	5335.9	5400.8	5264.3	5145.2	5060.4	4951.7	4957.0
57.5°	5570.4	5577.0	5675.0	5873.7	6117.4	6269.8	6030.1	5794.2	5622.0	5518.7	5477.6
60°	6224.7	6231.4	6374.4	6616.9	6995.8	7181.2	6884.5	6499.0	6281.8	6124.1	6134.7
62.5°	7010.3	7036.8	7165.3	7499.1	7958.8	8166.8	7773.4	7258.1	6964.0	6767.9	6775.9
65°	7851.5	7896.6	8036.9	8403.9	8827.8	9051.7	8569.5	7974.7	7609.1	7369.3	7394.5
67.5°	8397.3	8437.0	8639.7	9045.0	9573.6	9759.0	9136.5	8443.6	7986.6	7700.5	7647.5
70°	8258.2	8291.3	8561.5	9136.5	9919.3	10153.8	9271.6	8374.8	7836.9	7507.1	7485.9
72.5°	7289.9	7220.9	7615.7	8441.0	9524.6	9918.1	8846.4	7648.8	6971.9	6632.8	6593.0
75°	4831.2	4980.9	5563.7	6536.1	8058.1	8545.7	7550.8	6141.3	5289.6	5007.4	4963.7
77.5°	1614.8	1730.0	2248.0	3705.2	5493.6	6226.1	5501.5	4016.5	2841.5	2289.1	2299.7
80°	427.9	422.6	547.1	1018.7	2373.9	3605.9	2763.4	1360.5	744.5	539.2	511.3
82.5°	153.7	172.2	221.3	282.2	629.2	1120.7	790.9	381.5	279.5	206.6	200.0
85°	67.5	66.3	95.4	112.6	157.6	209.3	185.4	161.6	141.7	94.0	87.5
87.5°	14.5	14.5	22.5	17.2	27.8	27.8	34.5	41.0	42.4	27.8	22.5
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)