

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: P648416

Luminaire Tested: **GALN-SA5B-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648416  
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-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 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: 23352.2 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

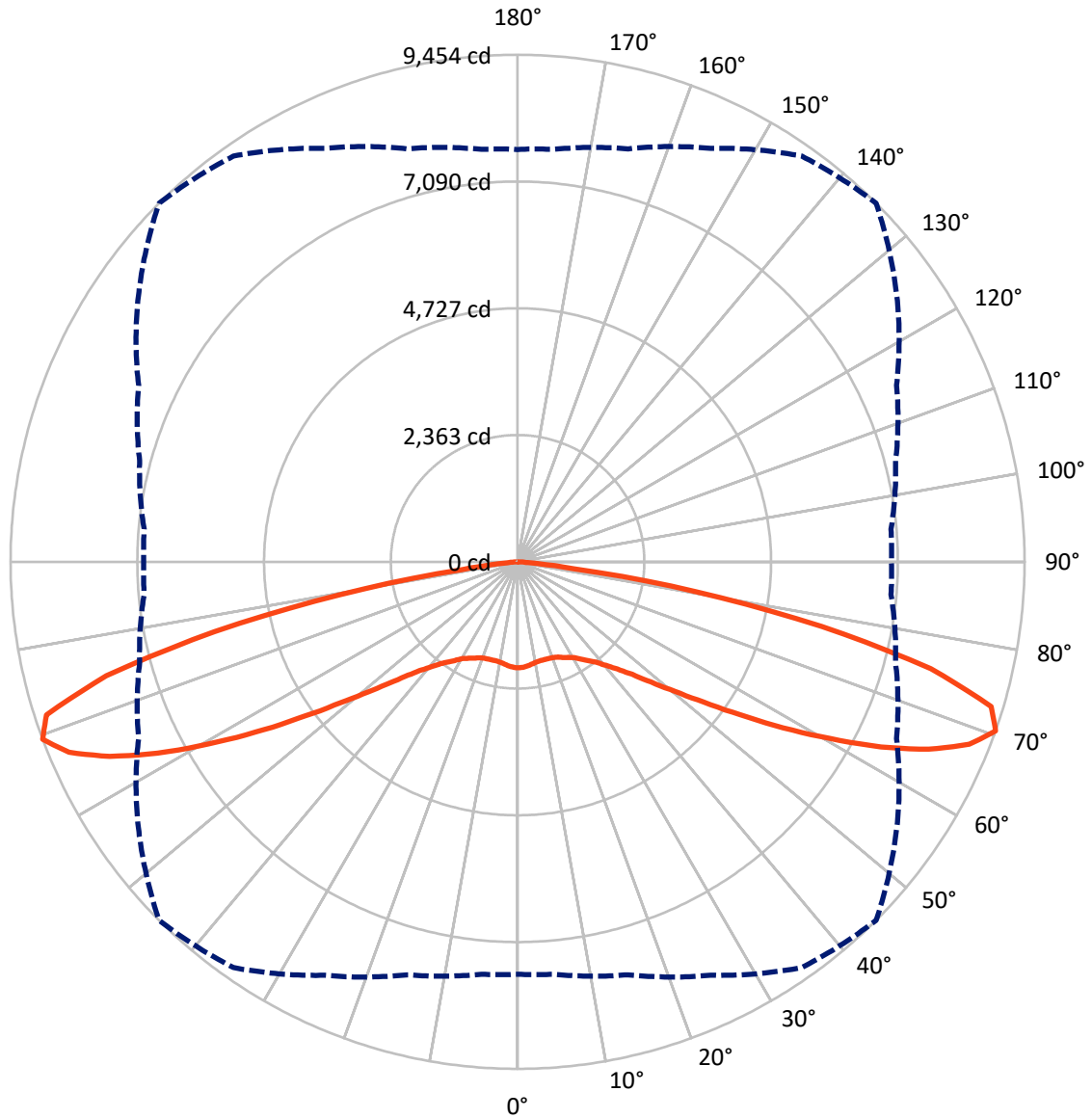
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT





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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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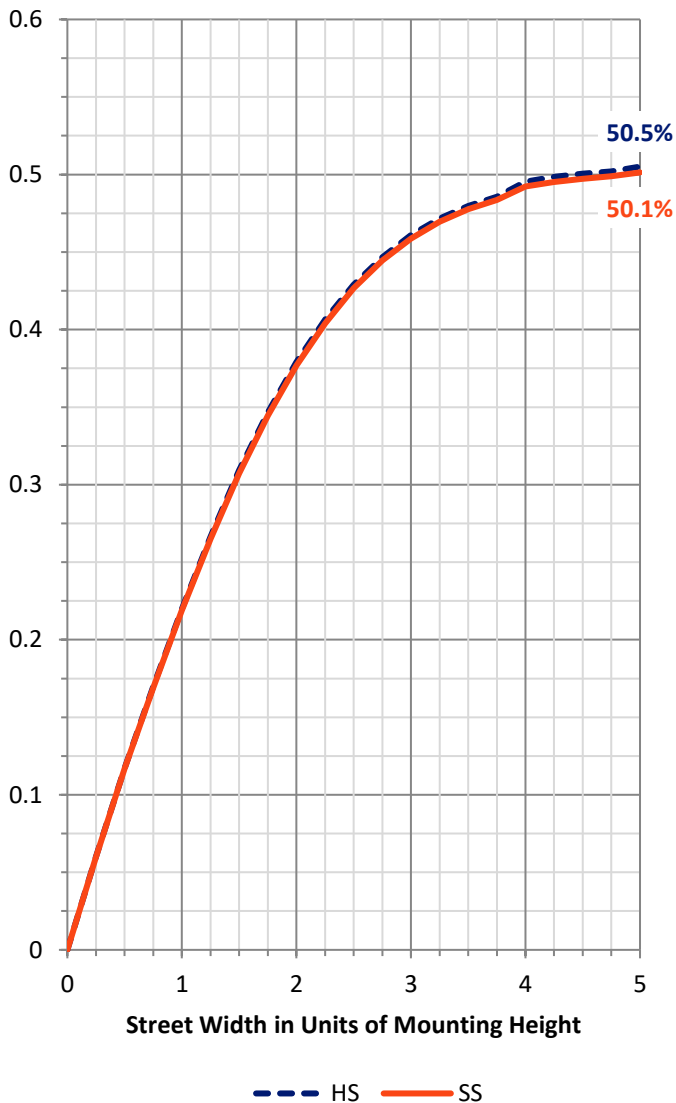
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11676.1	0.0	11676.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11676.1	0.0	11676.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23352.2	0.0	23352.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.9	0.8
10°-20°	541.3	2.3
20°-30°	922.2	3.9
30°-40°	1429.4	6.1
40°-50°	2405.9	10.3
50°-60°	4377.5	18.7
60°-70°	7410.9	31.7
70°-80°	5736.4	24.6
80°-90°	343.7	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°	23352.2	100.0
0°-180°	23352.2	100.0



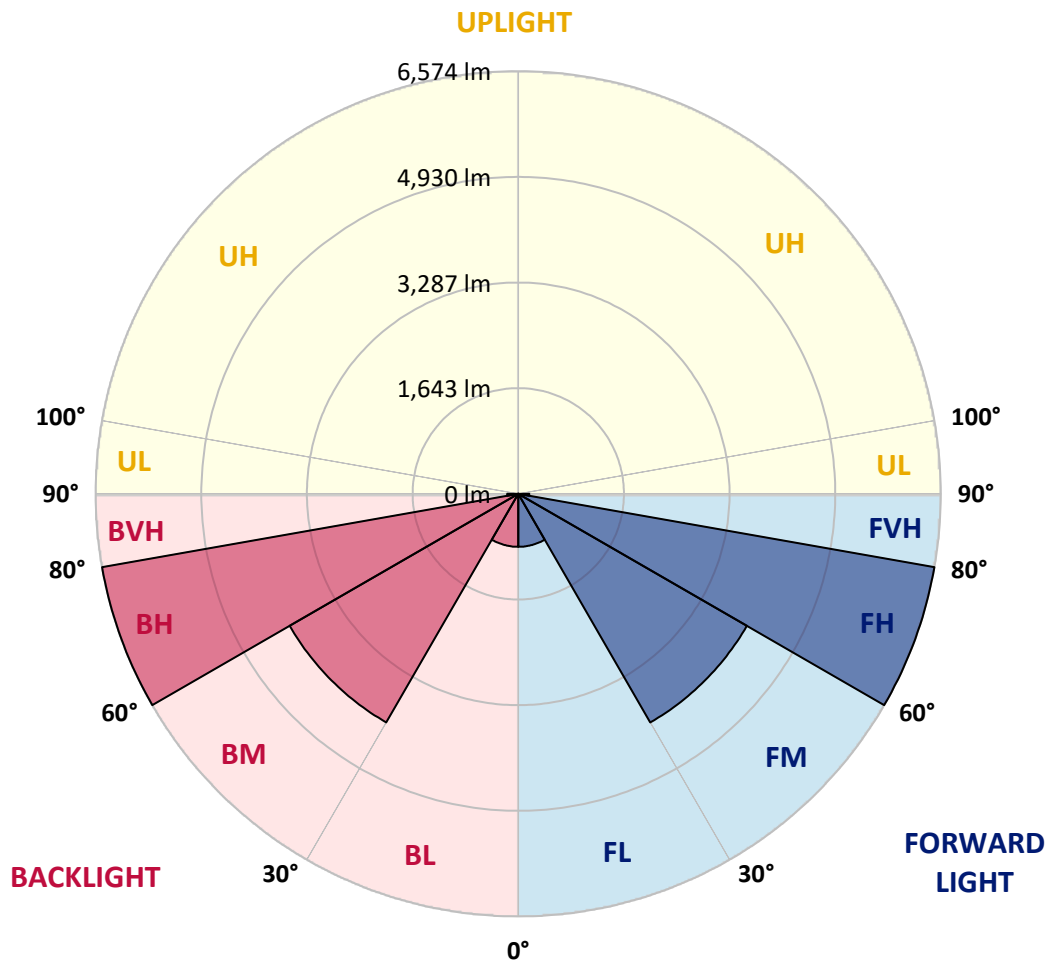
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.2	3.5			
FM (30°-60°)	4106.4	17.6			
FH (60°-80°)	6573.6	28.2			G3/7500
FVH (80°-90°)	171.9	0.7			G2/225
BL (0°-30°)	824.2	3.5	B2/1000		
BM (30°-60°)	4106.4	17.6	B3/5000		
BH (60°-80°)	6573.6	28.2	B5		G3/7500
BVH (80°-90°)	171.9	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°	1977.1	1977.1	1977.1	1977.1	1977.1	1977.1	1977.1	1977.1	1977.1	1977.1	1977.1
2.5°	1972.1	1973.3	1973.3	1970.9	1969.6	1969.6	1968.4	1968.4	1972.1	1973.3	1974.6
5°	1954.8	1954.8	1954.8	1953.6	1951.2	1951.2	1948.7	1948.7	1949.9	1953.6	1951.2
7.5°	1931.4	1933.9	1933.9	1928.9	1925.2	1925.2	1924.0	1925.2	1926.5	1930.2	1928.9
10°	1924.0	1925.2	1919.1	1910.4	1904.3	1900.6	1901.8	1904.3	1910.4	1912.9	1914.1
12.5°	1928.9	1928.9	1917.9	1905.5	1894.4	1889.5	1888.3	1896.9	1908.0	1915.4	1917.9
15°	1935.1	1932.7	1919.1	1903.1	1892.0	1890.7	1889.5	1895.6	1911.7	1926.5	1927.7
17.5°	1938.8	1937.6	1920.3	1900.6	1894.4	1894.4	1893.2	1898.1	1915.4	1933.9	1935.1
20°	1951.2	1947.5	1927.7	1906.8	1901.8	1904.3	1900.6	1906.8	1925.2	1947.5	1952.4
22.5°	1975.8	1972.1	1952.4	1931.4	1928.9	1928.9	1927.7	1933.9	1953.6	1977.1	1980.8
25°	2005.4	2001.7	1983.2	1968.4	1970.9	1975.8	1973.3	1974.6	1990.6	2010.4	2016.5
27.5°	2044.9	2038.7	2022.6	2010.4	2017.7	2017.7	2017.7	2016.5	2026.4	2044.9	2051.1
30°	2093.0	2090.5	2073.2	2072.1	2078.2	2072.1	2072.1	2073.2	2074.5	2091.8	2097.9
32.5°	2155.9	2151.0	2142.3	2139.9	2157.1	2162.0	2144.8	2128.7	2137.4	2154.7	2158.3
35°	2259.5	2252.1	2239.8	2226.1	2239.8	2263.2	2226.1	2213.9	2236.0	2259.5	2261.9
37.5°	2400.1	2396.4	2376.6	2352.0	2350.7	2375.4	2337.2	2335.9	2377.9	2406.2	2409.9
40°	2576.5	2580.1	2555.5	2532.1	2519.7	2539.4	2509.8	2520.9	2561.7	2593.7	2591.3
42.5°	2824.4	2810.8	2772.5	2750.4	2736.8	2729.4	2722.0	2739.2	2784.9	2819.4	2846.5
45°	3114.2	3109.3	3061.1	3034.0	3004.4	2993.3	2990.8	3021.7	3077.2	3119.2	3122.8
47.5°	3442.2	3431.2	3400.3	3372.0	3360.9	3347.3	3335.0	3358.4	3413.9	3443.5	3452.1
50°	3780.2	3782.7	3782.7	3777.7	3788.9	3791.3	3758.0	3766.6	3797.5	3795.0	3792.5
52.5°	4166.3	4179.8	4243.9	4250.1	4303.1	4338.9	4278.5	4242.7	4231.6	4165.0	4169.9
55°	4620.1	4632.5	4728.6	4824.8	4967.9	5028.3	4901.3	4790.3	4711.4	4610.2	4615.2
57.5°	5186.2	5192.4	5283.6	5468.6	5695.5	5837.4	5614.2	5394.6	5234.3	5138.1	5099.8
60°	5795.5	5801.6	5934.8	6160.6	6513.3	6686.0	6409.7	6050.8	5848.5	5701.7	5711.6
62.5°	6526.9	6551.5	6671.2	6981.9	7409.9	7603.6	7237.3	6757.5	6483.7	6301.1	6308.6
65°	7310.0	7352.0	7482.7	7824.4	8219.0	8427.4	7978.5	7424.7	7084.3	6861.1	6884.5
67.5°	7818.2	7855.1	8043.8	8421.2	8913.4	9086.0	8506.4	7861.3	7435.8	7169.5	7120.1
70°	7688.7	7719.5	7971.1	8506.4	9235.3	9453.6	8632.2	7797.2	7296.5	6989.4	6969.6
72.5°	6787.1	6722.9	7090.5	7858.9	8867.7	9234.1	8236.3	7121.3	6491.1	6175.4	6138.3
75°	4498.0	4637.4	5180.0	6085.3	7502.4	7956.3	7030.1	5717.8	4924.8	4662.1	4621.3
77.5°	1503.4	1610.7	2093.0	3449.7	5114.7	5796.7	5122.1	3739.5	2645.5	2131.2	2141.1
80°	398.4	393.5	509.3	948.4	2210.2	3357.2	2572.8	1266.7	693.1	502.0	476.1
82.5°	143.1	160.4	206.0	262.7	585.8	1043.4	736.3	355.2	260.3	192.4	186.2
85°	62.9	61.7	88.8	104.8	146.7	194.9	172.7	150.5	131.9	87.5	81.4
87.5°	13.5	13.5	21.0	16.1	25.9	25.9	32.1	38.2	39.5	25.9	21.0
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)