

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: P453324

Luminaire Tested: **GALN-SA4B-760-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453324  
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-SA4B-760-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 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: 23559 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

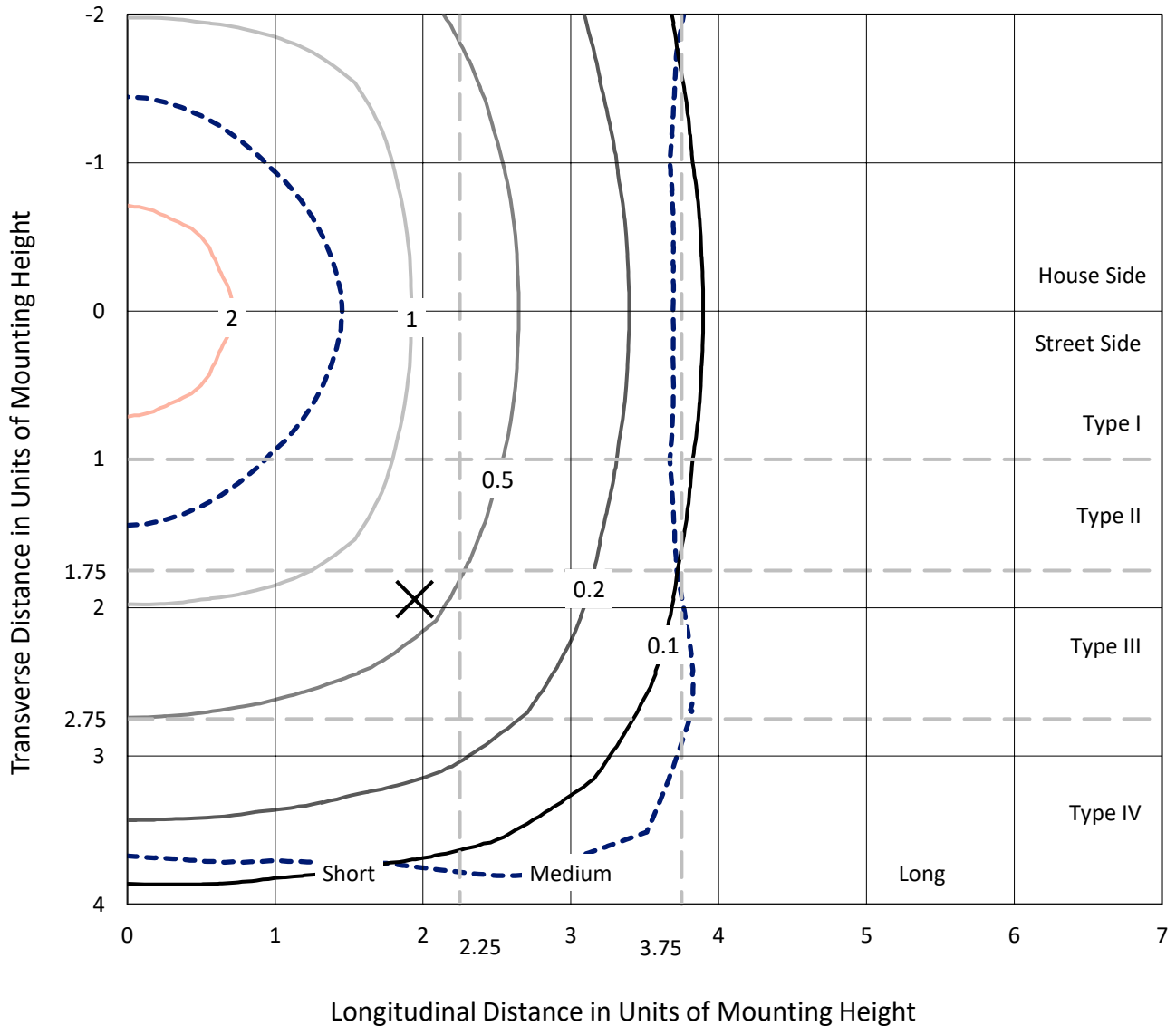
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

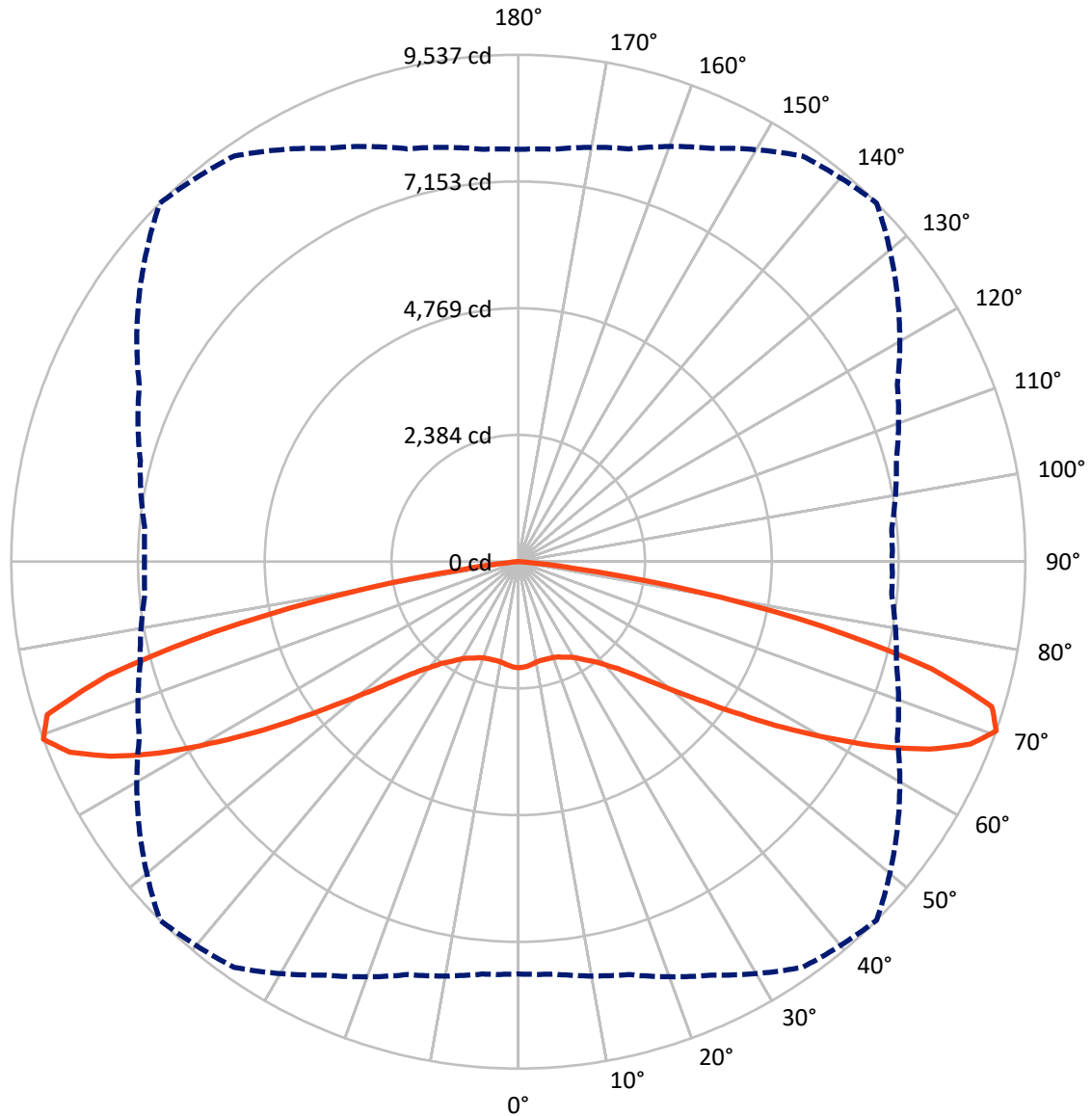
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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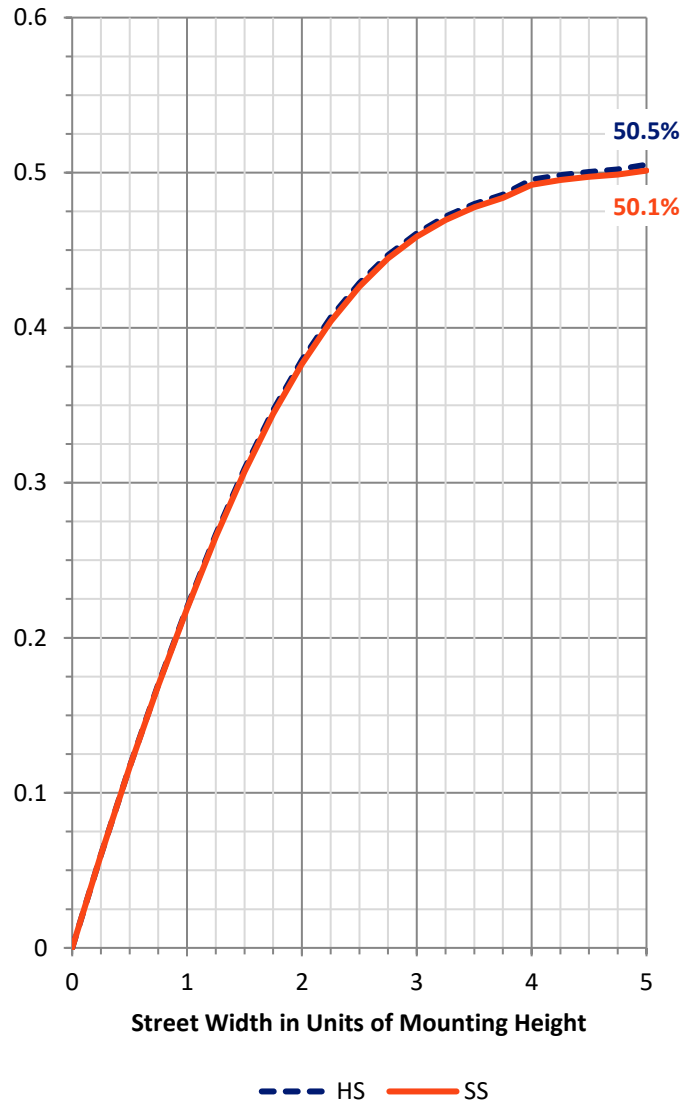
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11779.5	0.0	11779.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11779.5	0.0	11779.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23559.0	0.0	23559.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.5	0.8
10°-20°	546.1	2.3
20°-30°	930.4	3.9
30°-40°	1442.1	6.1
40°-50°	2427.2	10.3
50°-60°	4416.2	18.7
60°-70°	7476.6	31.7
70°-80°	5787.1	24.6
80°-90°	346.8	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°	23559.0	100.0
0°-180°	23559.0	100.0



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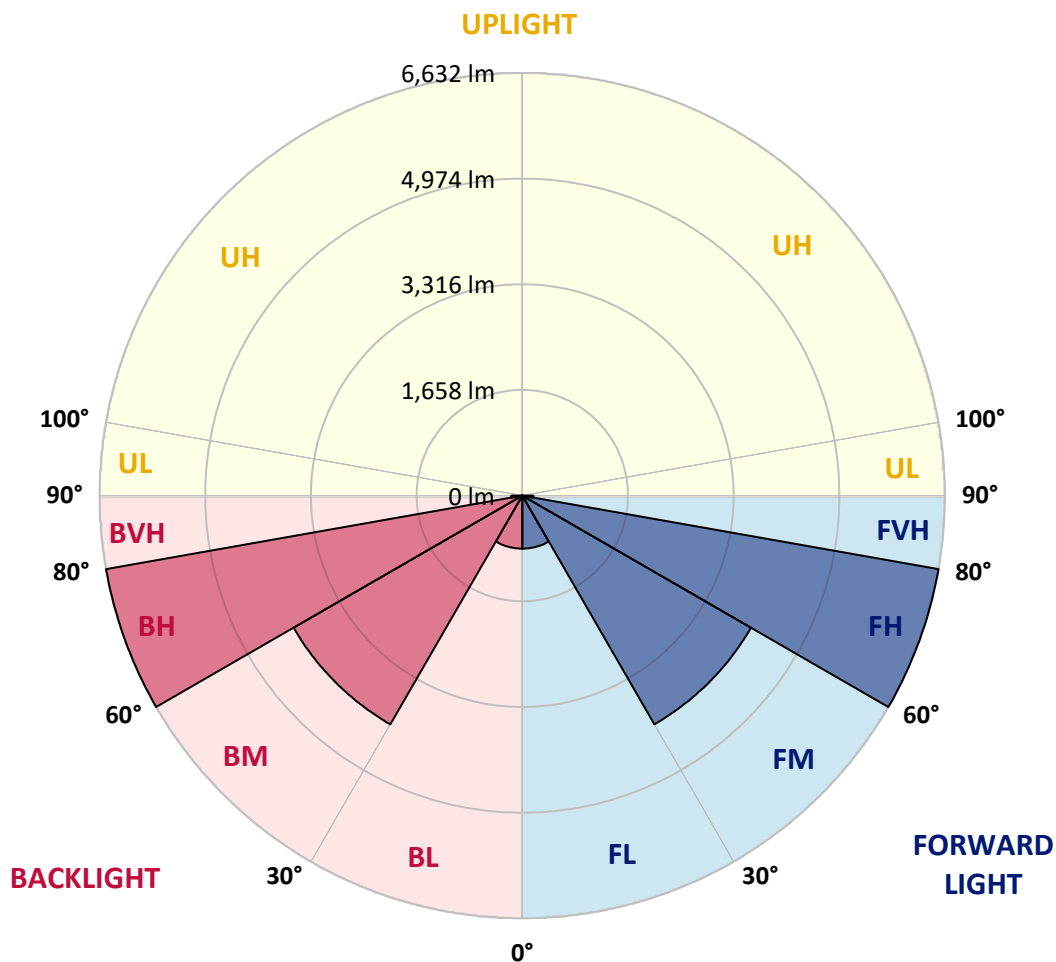
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	831.5	3.5			
FM (30°-60°)	4142.8	17.6			
FH (60°-80°)	6631.9	28.1			G3/7500
FVH (80°-90°)	173.4	0.7			G2/225
BL (0°-30°)	831.5	3.5	B2/1000		
BM (30°-60°)	4142.8	17.6	B3/5000		
BH (60°-80°)	6631.9	28.1	B5		G3/7500
BVH (80°-90°)	173.4	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°	1994.6	1994.6	1994.6	1994.6	1994.6	1994.6	1994.6	1994.6	1994.6	1994.6	1994.6
2.5°	1989.6	1990.8	1990.8	1988.3	1987.1	1987.1	1985.8	1985.8	1989.6	1990.8	1992.1
5°	1972.2	1972.2	1972.2	1970.9	1968.4	1968.4	1965.9	1965.9	1967.2	1970.9	1968.4
7.5°	1948.5	1951.0	1951.0	1946.0	1942.3	1942.3	1941.1	1942.3	1943.5	1947.3	1946.0
10°	1941.1	1942.3	1936.1	1927.4	1921.1	1917.4	1918.7	1921.1	1927.4	1929.9	1931.1
12.5°	1946.0	1946.0	1934.8	1922.4	1911.2	1906.2	1905.0	1913.7	1924.9	1932.3	1934.8
15°	1952.3	1949.8	1936.1	1919.9	1908.7	1907.5	1906.2	1912.4	1928.6	1943.5	1944.8
17.5°	1956.0	1954.7	1937.3	1917.4	1911.2	1911.2	1909.9	1914.9	1932.3	1951.0	1952.3
20°	1968.4	1964.7	1944.8	1923.6	1918.7	1921.1	1917.4	1923.6	1942.3	1964.7	1969.7
22.5°	1993.3	1989.6	1969.7	1948.5	1946.0	1946.0	1944.8	1951.0	1970.9	1994.6	1998.3
25°	2023.2	2019.4	2000.8	1985.8	1988.3	1993.3	1990.8	1992.1	2008.2	2028.2	2034.4
27.5°	2063.0	2056.8	2040.6	2028.2	2035.6	2035.6	2035.6	2034.4	2044.3	2063.0	2069.2
30°	2111.5	2109.0	2091.6	2090.4	2096.6	2090.4	2090.4	2091.6	2092.9	2110.3	2116.5
32.5°	2175.0	2170.0	2161.3	2158.8	2176.2	2181.2	2163.8	2147.6	2156.3	2173.7	2177.5
35°	2279.5	2272.0	2259.6	2245.9	2259.6	2283.2	2245.9	2233.5	2255.9	2279.5	2282.0
37.5°	2421.3	2417.6	2397.7	2372.8	2371.6	2396.5	2357.9	2356.6	2398.9	2427.6	2431.3
40°	2599.3	2603.0	2578.1	2554.5	2542.0	2561.9	2532.1	2543.3	2584.3	2616.7	2614.2
42.5°	2849.4	2835.7	2797.1	2774.7	2761.0	2753.6	2746.1	2763.5	2809.6	2844.4	2871.8
45°	3141.8	3136.8	3088.3	3060.9	3031.0	3019.8	3017.3	3048.5	3104.4	3146.7	3150.5
47.5°	3472.7	3461.5	3430.4	3401.8	3390.6	3376.9	3364.5	3388.1	3444.1	3474.0	3482.7
50°	3813.7	3816.2	3816.2	3811.2	3822.4	3824.9	3791.3	3800.0	3831.1	3828.6	3826.1
52.5°	4203.1	4216.8	4281.5	4287.7	4341.2	4377.3	4316.4	4280.3	4269.1	4201.9	4206.9
55°	4661.0	4673.5	4770.5	4867.6	5011.9	5072.9	4944.7	4832.7	4753.1	4651.1	4656.0
57.5°	5232.1	5238.4	5330.4	5517.1	5746.0	5889.1	5663.9	5442.4	5280.7	5183.6	5145.0
60°	5846.8	5853.0	5987.4	6215.1	6571.0	6745.2	6466.4	6104.4	5900.3	5752.2	5762.2
62.5°	6584.7	6609.5	6730.2	7043.8	7475.5	7670.9	7301.4	6817.3	6541.1	6357.0	6364.4
65°	7374.8	7417.1	7549.0	7893.6	8291.8	8502.1	8049.2	7490.5	7147.1	6921.8	6945.5
67.5°	7887.4	7924.7	8115.1	8495.8	8992.3	9166.5	8581.7	7930.9	7501.7	7232.9	7183.1
70°	7756.8	7787.9	8041.7	8581.7	9317.1	9537.3	8708.6	7866.2	7361.1	7051.3	7031.3
72.5°	6847.2	6782.5	7153.3	7928.5	8946.3	9315.8	8309.2	7184.4	6548.6	6230.0	6192.7
75°	4537.8	4678.4	5225.9	6139.2	7568.9	8026.8	7092.3	5768.4	4968.4	4703.3	4662.3
77.5°	1516.8	1625.0	2111.5	3480.2	5160.0	5848.0	5167.4	3772.6	2668.9	2150.1	2160.0
80°	401.9	396.9	513.9	956.8	2229.7	3386.9	2595.5	1277.9	699.3	506.4	480.3
82.5°	144.3	161.8	207.8	265.0	591.0	1052.6	742.8	358.3	262.5	194.1	187.9
85°	63.5	62.2	89.6	105.8	148.1	196.6	174.2	151.8	133.1	88.3	82.1
87.5°	13.7	13.7	21.2	16.2	26.1	26.1	32.4	38.6	39.8	26.1	21.2
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)