

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640966

Luminaire Tested: GWS-SA5E-830-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-830-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

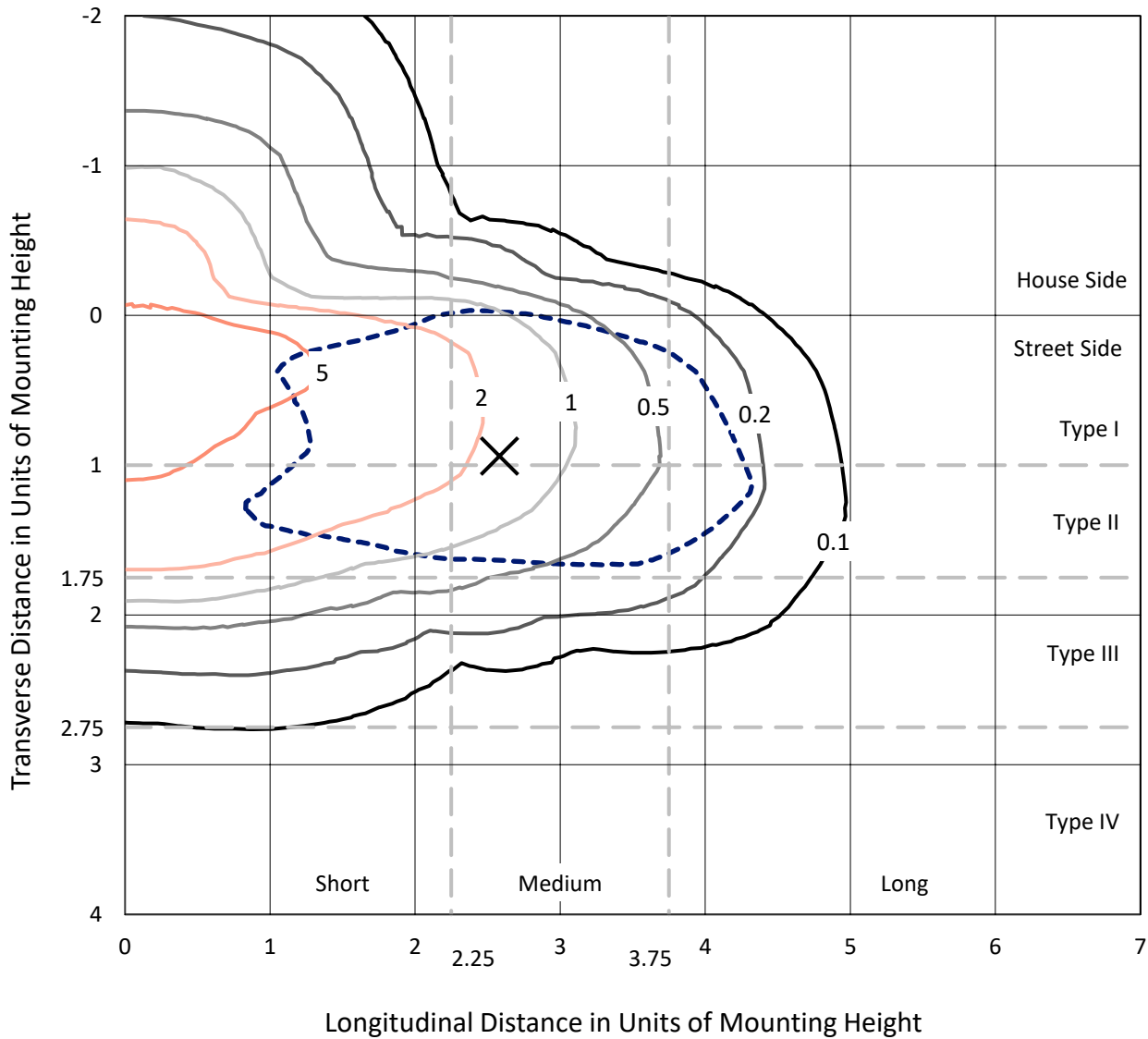
Lumens per Lamp: N/A  
Luminaire Lumens: 29587.7 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

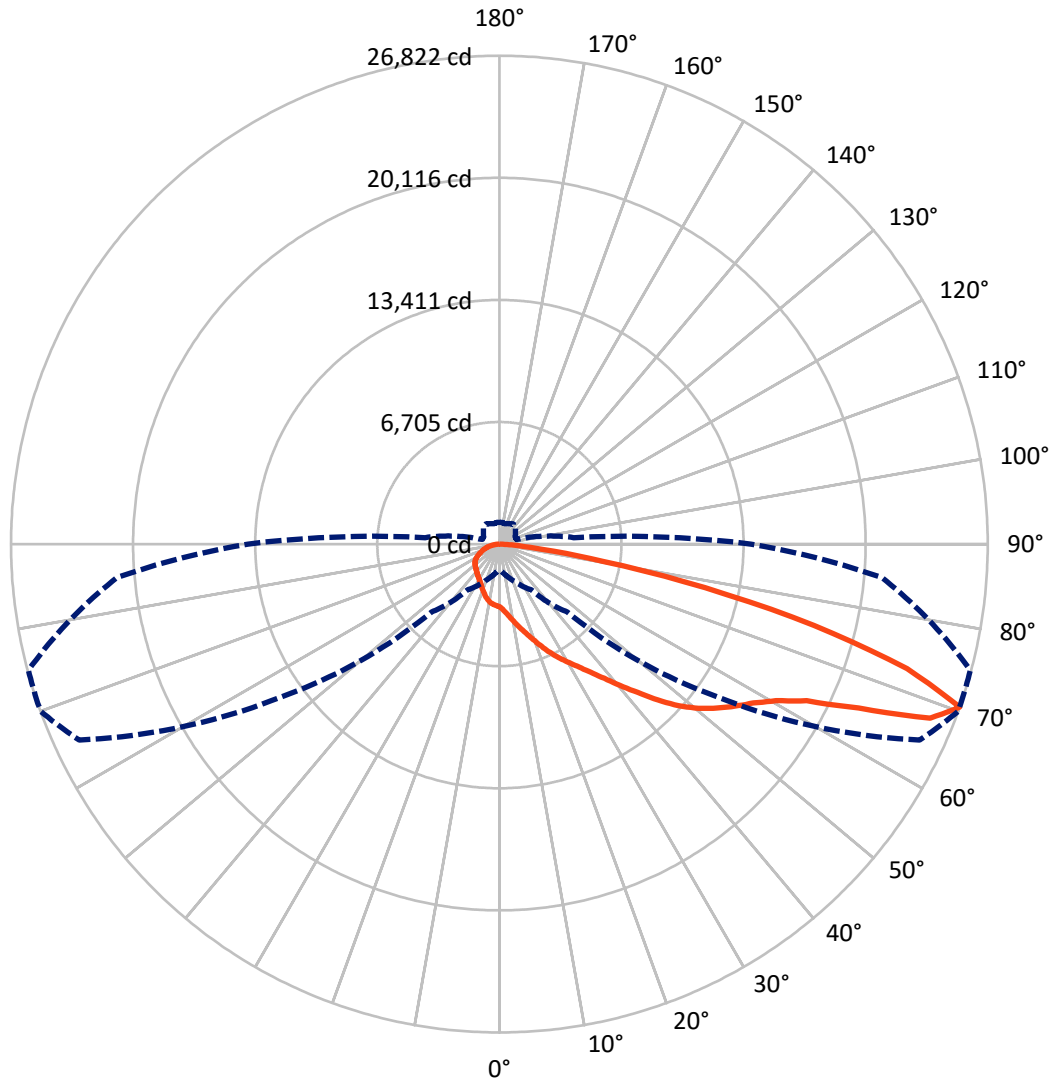
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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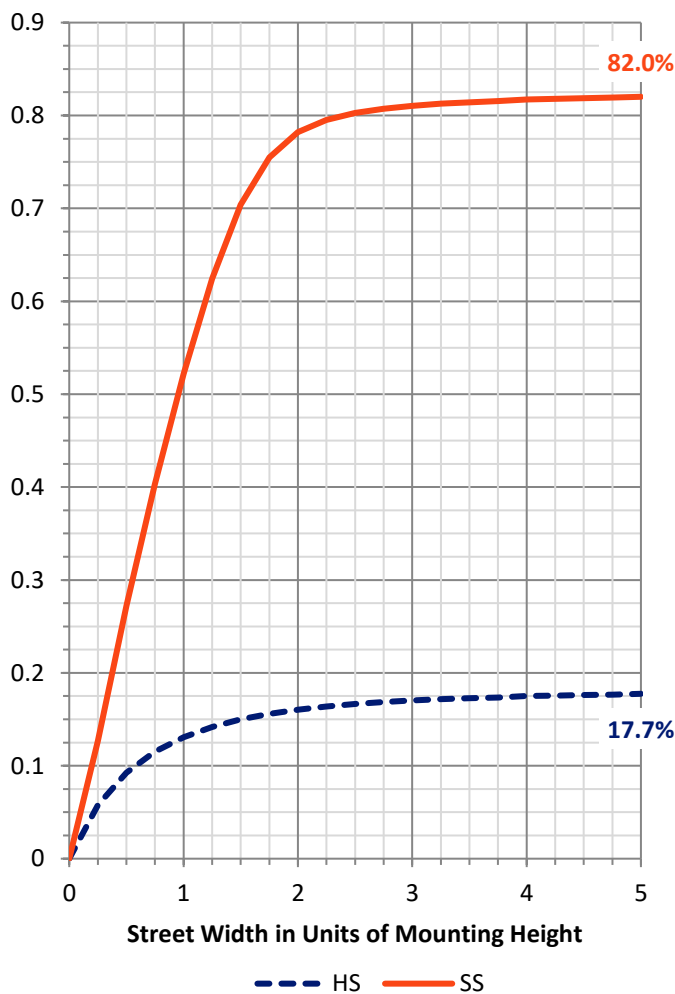
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5302.2	0.0	5302.2
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	24285.5	0.0	24285.5
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	29587.7	0.0	29587.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.7	1.2
10°-20°	1140.9	3.9
20°-30°	2021.1	6.8
30°-40°	3041.7	10.3
40°-50°	4601.8	15.6
50°-60°	6592.3	22.3
60°-70°	7287.1	24.6
70°-80°	4112.3	13.9
80°-90°	439.9	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°	29587.7	100.0
0°-180°	29587.7	100.0

**Coefficient of Utilization**







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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5
2.5°	3822.5	3816.1	3820.4	3816.1	3792.6	3734.9	3687.8	3628.0	3587.4	3563.8	3508.3
5°	4271.5	4265.1	4250.1	4228.7	4186.0	4106.9	3989.3	3858.9	3779.8	3719.9	3602.3
7.5°	4594.3	4594.3	4592.2	4566.5	4536.6	4453.2	4314.2	4143.2	4027.8	3925.1	3732.7
10°	4758.9	4769.6	4784.6	4820.9	4814.5	4769.6	4639.2	4455.3	4310.0	4190.2	3903.8
12.5°	4848.7	4855.1	4880.8	4955.6	5032.6	5043.3	4966.3	4773.9	4615.7	4455.3	4094.0
15°	4964.2	4966.3	5000.5	5090.3	5203.6	5316.9	5297.7	5105.3	4942.8	4765.3	4305.7
17.5°	5053.9	5068.9	5130.9	5235.7	5376.8	5532.8	5626.9	5507.2	5306.2	5103.1	4536.6
20°	5086.0	5096.7	5177.9	5338.3	5530.7	5750.9	5960.4	5928.3	5725.2	5485.8	4797.4
22.5°	5201.5	5201.5	5261.3	5396.0	5622.6	5943.3	6283.2	6366.6	6187.0	5907.0	5077.5
25°	5455.9	5447.3	5475.1	5530.7	5701.7	6097.2	6601.8	6851.9	6650.9	6336.7	5357.5
27.5°	5804.3	5800.1	5797.9	5806.5	5864.2	6231.9	6871.1	7305.1	7104.2	6749.3	5607.7
30°	6182.7	6169.9	6197.7	6172.1	6159.2	6392.3	7099.9	7711.3	7555.3	7157.6	5815.0
32.5°	6698.0	6674.5	6668.0	6584.7	6533.4	6642.4	7283.8	8173.1	8049.1	7598.0	6048.1
35°	7377.8	7356.4	7247.4	7114.9	6963.1	7014.4	7512.5	8624.2	8632.8	8149.6	6353.8
37.5°	8064.1	8068.4	7982.8	7670.7	7514.6	7484.7	7861.0	9173.6	9357.5	8808.1	6749.3
40°	8634.9	8660.6	8660.6	8331.3	8098.3	8070.5	8350.6	9825.7	10191.3	9616.2	7249.6
42.5°	9068.9	9092.4	9167.2	8929.9	8684.1	8780.3	8944.9	10479.9	11136.2	10614.6	7882.4
45°	9545.6	9564.9	9605.5	9468.7	9325.4	9582.0	9618.3	11262.4	12218.0	11734.8	8617.8
47.5°	10178.4	10161.3	10165.6	10065.1	9954.0	10368.7	10360.2	11920.8	13263.4	12962.0	9415.2
50°	10965.2	10997.3	10967.3	10768.5	10638.1	11016.5	11065.7	12649.8	14182.7	14176.3	10219.1
52.5°	11722.0	11734.8	11893.0	11901.6	11634.3	11555.2	11683.5	13385.3	14958.7	15288.0	10990.8
55°	11760.5	11809.6	12284.3	12626.3	13058.2	12423.2	12307.8	14086.5	15709.1	16376.2	11792.5
57.5°	10941.7	11020.8	11826.8	12564.3	13765.8	13913.3	13376.7	14993.0	16459.5	17447.2	12720.4
60°	9192.9	9357.5	10452.1	11580.9	13447.3	14984.4	15563.8	16224.4	17445.1	18541.8	13847.0
62.5°	5870.6	5934.8	7469.8	9359.6	12012.7	14879.6	17945.4	18394.3	18945.9	19967.8	15583.0
65°	2939.6	3144.8	4044.9	5586.3	8662.7	13111.6	19149.0	22368.6	21693.1	22409.3	18396.5
67.5°	1994.6	2060.9	2516.3	3356.5	5079.6	9289.1	18402.9	25716.6	25517.7	25635.3	21395.9
70°	1470.9	1513.6	1872.8	2377.3	3072.1	5274.2	14650.9	25464.3	26821.8	26779.1	21081.6
72.5°	1073.2	1094.6	1366.1	1815.1	2276.8	2727.9	8947.0	20570.7	23414.1	24647.6	18437.1
75°	780.3	806.0	949.2	1357.6	1770.2	1701.8	4416.9	14858.3	17855.6	20228.6	15020.7
77.5°	581.5	613.6	679.8	850.9	1240.0	1218.6	1909.1	9648.3	11548.8	13212.1	9124.5
80°	419.0	425.4	463.9	545.2	786.7	714.1	908.6	5030.4	5768.0	6319.6	3576.7
82.5°	254.4	260.8	310.0	335.6	487.4	449.0	472.5	1629.1	2334.6	2477.8	1336.2
85°	74.8	79.1	141.1	153.9	203.1	192.4	190.3	662.7	791.0	1011.2	525.9
87.5°	0.0	0.0	0.0	0.0	2.1	12.8	23.5	117.6	177.4	245.9	128.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5	3450.5
2.5°	3486.9	3437.7	3412.1	3367.2	3335.1	3303.0	3271.0	3241.0	3228.2	3209.0	3213.2
5°	3548.9	3471.9	3395.0	3307.3	3232.5	3170.5	3114.9	3065.7	3044.3	3025.1	3033.7
7.5°	3642.9	3527.5	3380.0	3219.6	3102.1	3016.5	2958.8	2924.6	2913.9	2899.0	2899.0
10°	3762.7	3589.5	3330.8	3102.1	2961.0	2892.6	2866.9	2864.8	2875.4	2877.6	2873.3
12.5°	3895.2	3649.4	3258.1	2963.1	2843.4	2822.0	2841.2	2877.6	2913.9	2933.2	2928.9
15°	4032.0	3687.8	3134.1	2830.6	2757.9	2785.7	2847.7	2920.3	2990.9	3027.2	3025.1
17.5°	4160.3	3696.4	2973.8	2702.3	2683.0	2753.6	2860.5	2973.8	3070.0	3121.3	3123.4
20°	4303.6	3681.4	2809.2	2586.8	2608.2	2723.7	2864.8	3001.6	3114.9	3166.2	3179.0
22.5°	4434.0	3630.1	2648.8	2477.8	2544.1	2687.3	2830.6	2958.8	3059.3	3108.5	3125.6
25°	4551.5	3531.8	2473.5	2385.9	2494.9	2636.0	2745.0	2834.8	2905.4	2935.3	2958.8
27.5°	4615.7	3384.3	2341.0	2313.2	2447.9	2563.3	2623.2	2651.0	2674.5	2665.9	2683.0
30°	4628.5	3200.4	2225.5	2255.5	2377.3	2462.8	2475.7	2447.9	2407.3	2341.0	2355.9
32.5°	4615.7	2988.8	2129.3	2193.5	2298.2	2349.5	2332.4	2259.7	2161.4	2058.8	2065.2
35°	4620.0	2775.0	2050.2	2125.1	2206.3	2234.1	2191.3	2090.8	1986.1	1892.0	1887.7
37.5°	4667.0	2595.4	1984.0	2058.8	2116.5	2120.8	2073.7	1969.0	1915.5	1845.0	1836.4
40°	4797.4	2462.8	1924.1	1992.5	2028.8	2026.7	1973.3	1898.4	1934.8	1911.3	1904.9
42.5°	5011.2	2381.6	1874.9	1922.0	1947.6	1951.9	1909.1	1862.1	1941.2	1911.3	1900.6
45°	5355.4	2377.3	1840.7	1851.4	1892.0	1922.0	1892.0	1838.6	1868.5	1723.1	1695.3
47.5°	5763.7	2450.0	1815.1	1789.4	1860.0	1913.4	1866.4	1780.9	1718.9	1586.3	1567.1
50°	6255.4	2597.5	1791.5	1723.1	1812.9	1881.3	1834.3	1716.7	1622.7	1552.1	1541.4
52.5°	6839.1	2792.1	1761.6	1648.3	1742.4	1864.2	1834.3	1710.3	1586.3	1522.2	1511.5
55°	7450.5	3016.5	1727.4	1558.5	1663.3	1868.5	1849.3	1665.4	1558.5	1524.3	1515.8
57.5°	8209.5	3285.9	1665.4	1453.8	1592.7	1830.0	1789.4	1639.8	1539.3	1511.5	1502.9
60°	9195.0	3685.7	1547.8	1346.9	1511.5	1761.6	1736.0	1597.0	1488.0	1464.4	1458.0
62.5°	10755.7	4363.4	1404.6	1244.2	1415.3	1618.4	1656.9	1515.8	1423.8	1421.7	1419.6
65°	13299.8	5177.9	1235.7	1152.3	1314.8	1500.8	1552.1	1432.4	1357.6	1381.1	1378.9
67.5°	15082.7	5248.5	1096.7	1056.1	1197.2	1372.5	1447.3	1346.9	1265.6	1310.5	1308.4
70°	13815.0	4094.0	977.0	955.6	1071.1	1233.6	1334.0	1240.0	1158.7	1201.5	1192.9
72.5°	11651.4	3138.4	863.7	850.9	942.8	1088.2	1188.7	1133.1	1047.6	1047.6	1028.3
75°	9363.9	2589.0	744.0	737.6	799.6	940.7	1054.0	959.9	880.8	876.5	863.7
77.5°	5370.4	1697.5	624.3	620.0	639.2	786.7	818.8	799.6	739.7	711.9	703.4
80°	2140.0	882.9	491.7	463.9	483.2	577.2	645.6	613.6	562.3	528.1	508.8
82.5°	829.5	442.5	346.3	303.6	331.4	416.9	468.2	457.5	423.3	346.3	325.0
85°	337.8	215.9	207.4	175.3	192.4	224.5	269.4	233.0	192.4	136.8	130.4
87.5°	89.8	79.1	77.0	47.0	36.3	10.7	2.1	0.0	0.0	0.0	0.0
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)