

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: P640437

Luminaire Tested: GWS-SA5D-830-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-830-U-5NQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

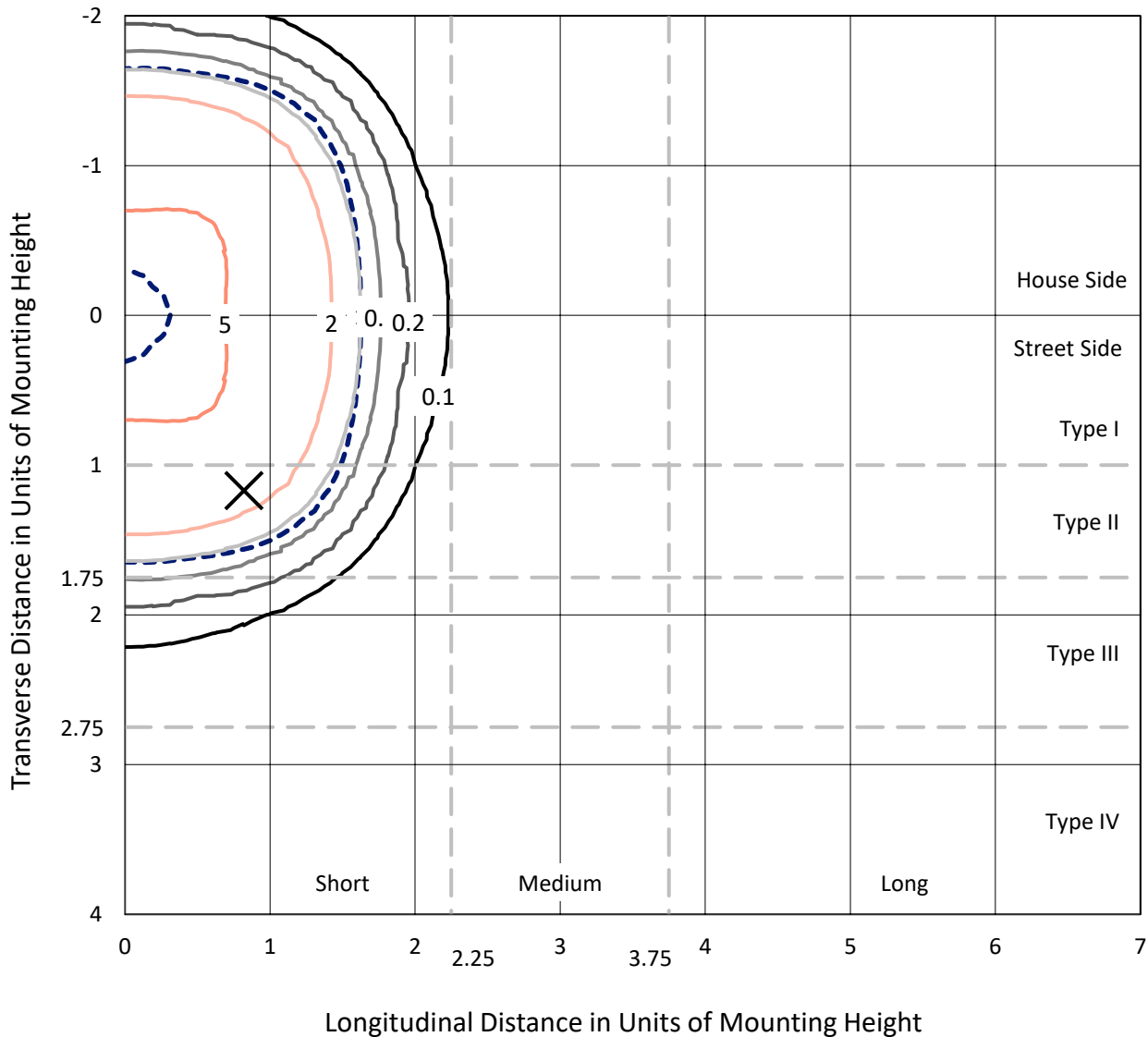
Lumens per Lamp: N/A  
Luminaire Lumens: 21634.2 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P640437  
 CATALOG NUMBER: GWS-SA5D-830-U-5NQ-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

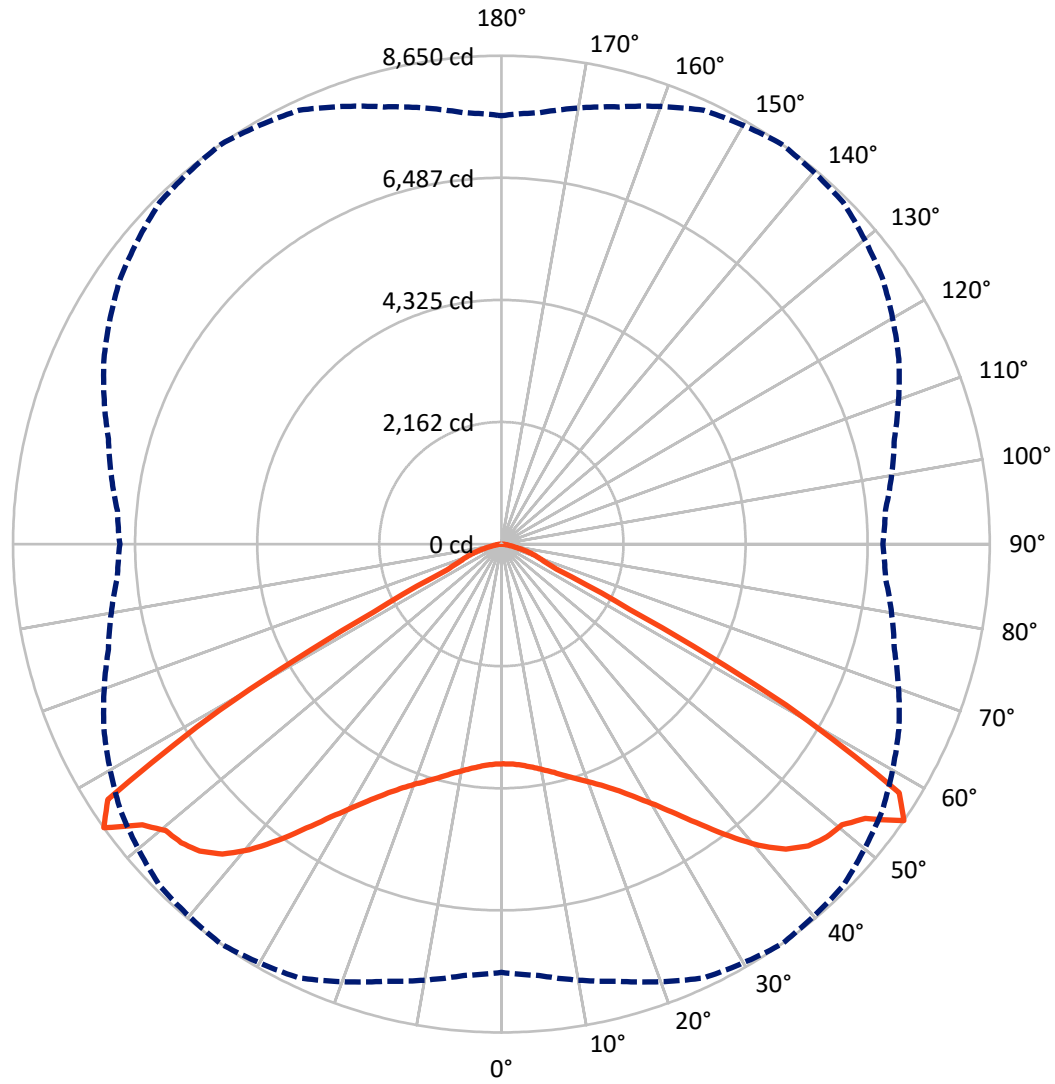
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P640437  
CATALOG NUMBER: GWS-SA5D-830-U-5NQ-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P640437

CATALOG NUMBER: GWS-SA5D-830-U-5NQ-W-GRSWH

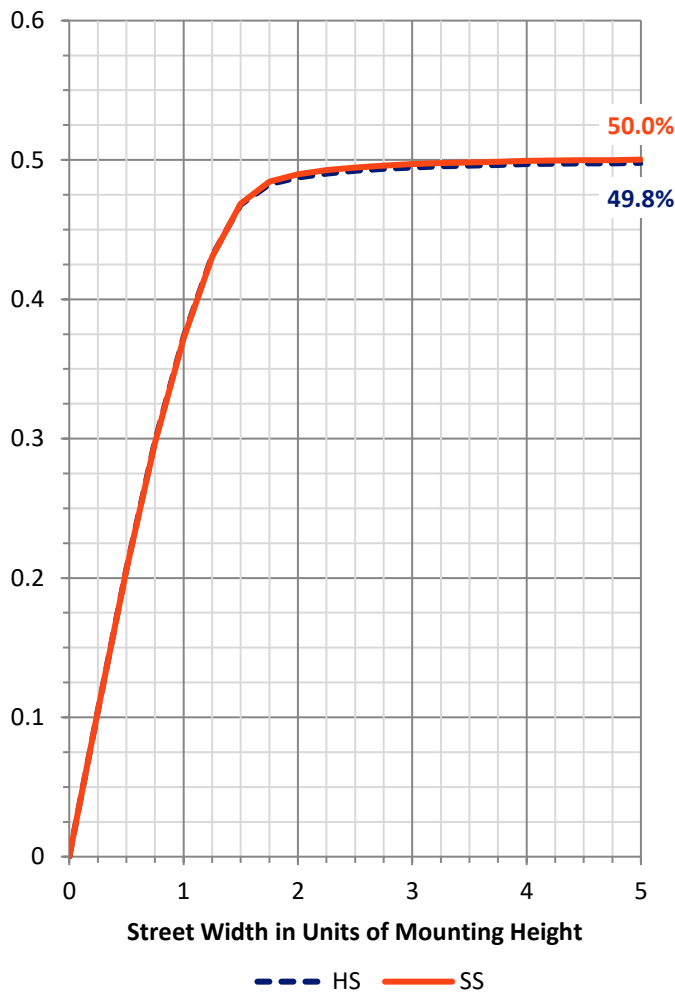
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10817.1	0.0	10817.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10817.1	0.0	10817.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21634.2	0.0	21634.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.6	1.8
10°-20°	1208.6	5.6
20°-30°	2236.9	10.3
30°-40°	3741.9	17.3
40°-50°	5702.1	26.4
50°-60°	6387.5	29.5
60°-70°	1511.4	7.0
70°-80°	407.5	1.9
80°-90°	58.6	0.3
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°	21634.2	100.0
0°-180°	21634.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640437

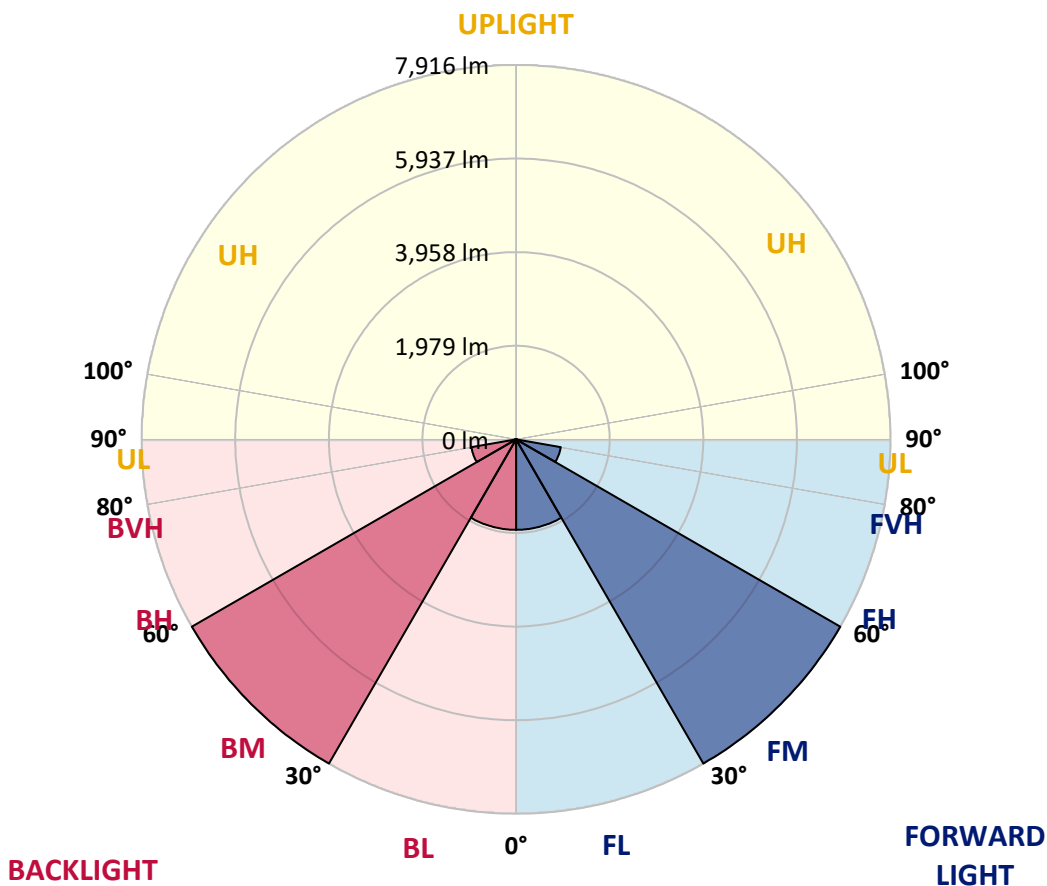
CATALOG NUMBER: GWS-SA5D-830-U-5NQ-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1912.6	8.8			
FM (30°-60°)	7915.8	36.6			
FH (60°-80°)	959.4	4.4			G1/1800
FVH (80°-90°)	29.3	0.1			G1/100
BL (0°-30°)	1912.6	8.8	B3/2500		
BM (30°-60°)	7915.8	36.6	B4/8500		
BH (60°-80°)	959.4	4.4	B2/1000		G1/1800
BVH (80°-90°)	29.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

**BUG Rating: B4-U0-G1**

Type V Short





REPORT NUMBER: P640437

CATALOG NUMBER: GWS-SA5D-830-U-5NQ-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3892.1	3892.1	3892.1	3892.1	3892.1	3892.1	3892.1	3892.1	3892.1	3892.1	3892.1
2.5°	3883.5	3883.5	3890.3	3898.9	3900.6	3917.7	3914.3	3907.4	3904.0	3897.2	3912.6
5°	3926.3	3928.0	3933.1	3938.2	3934.8	3948.5	3943.4	3934.8	3929.7	3921.1	3936.5
7.5°	3982.7	3982.7	3987.9	3994.7	3991.3	4011.8	4001.5	3989.6	3981.0	3970.7	3984.4
10°	4034.0	4037.5	4042.6	4056.3	4063.1	4085.4	4078.5	4061.4	4047.7	4035.8	4051.2
12.5°	4111.0	4114.5	4119.6	4138.4	4150.4	4172.6	4162.4	4138.4	4117.9	4100.8	4117.9
15°	4210.3	4206.8	4220.5	4244.5	4259.9	4280.4	4268.4	4227.4	4200.0	4177.8	4194.9
17.5°	4311.2	4309.5	4323.2	4354.0	4376.2	4403.6	4383.0	4335.1	4306.1	4278.7	4295.8
20°	4420.7	4425.8	4439.5	4468.6	4501.1	4537.0	4519.9	4468.6	4436.1	4405.3	4419.0
22.5°	4555.8	4557.5	4572.9	4610.6	4653.4	4687.6	4677.3	4614.0	4572.9	4540.4	4557.5
25°	4718.4	4716.7	4737.2	4781.7	4841.5	4875.8	4853.5	4783.4	4738.9	4701.3	4714.9
27.5°	4904.8	4903.1	4933.9	4992.1	5077.6	5125.5	5079.3	4992.1	4930.5	4877.5	4889.4
30°	5139.2	5134.1	5168.3	5247.0	5358.2	5438.6	5370.2	5248.7	5168.3	5111.8	5123.8
32.5°	5399.3	5406.1	5448.9	5554.9	5695.2	5799.6	5696.9	5561.8	5454.0	5371.9	5385.6
35°	5685.0	5685.0	5772.2	5903.9	6104.1	6242.7	6083.6	5888.5	5744.8	5631.9	5635.3
37.5°	6003.2	6006.6	6121.2	6302.6	6564.3	6726.8	6511.3	6270.1	6095.6	5974.1	5967.2
40°	6391.5	6401.8	6519.8	6721.7	7016.0	7164.8	6933.8	6697.7	6519.8	6376.1	6362.4
42.5°	6829.5	6832.9	6957.8	7139.1	7387.2	7476.2	7294.8	7101.5	6956.1	6826.1	6812.4
45°	7246.9	7238.4	7346.1	7481.3	7625.0	7633.6	7532.6	7453.9	7327.3	7216.1	7195.6
47.5°	7572.0	7565.1	7662.6	7736.2	7753.3	7669.5	7702.0	7714.0	7566.8	7416.3	7376.9
50°	7770.4	7784.1	7876.5	7917.5	7816.6	7679.7	7802.9	7772.1	7561.7	7365.0	7301.7
52.5°	7890.2	7910.7	8071.5	8175.9	8071.5	7941.5	7958.6	7777.3	7474.4	7214.4	7132.3
55°	7587.4	7669.5	8016.8	8478.7	8649.8	8559.1	8234.0	7767.0	7205.9	6827.8	6757.6
57.5°	5623.4	5753.4	6268.3	7269.2	8309.3	8639.5	7690.0	6511.3	5661.0	5175.1	5134.1
60°	2870.7	3016.1	3428.4	4456.6	5794.5	6259.8	5356.5	4169.2	3313.8	2920.3	2875.8
62.5°	1171.9	1195.8	1331.0	1727.9	2561.1	2954.5	2595.3	1822.0	1368.6	1260.9	1262.6
65°	922.1	927.2	920.4	944.4	1072.7	1190.7	1100.0	966.6	942.6	954.6	946.1
67.5°	804.1	805.8	800.7	800.7	805.8	800.7	810.9	816.0	819.5	833.2	824.6
70°	672.3	674.1	674.1	677.5	675.8	667.2	682.6	689.4	691.2	699.7	694.6
72.5°	520.1	525.2	528.6	530.3	528.6	523.5	532.1	544.0	542.3	550.9	542.3
75°	352.4	359.3	362.7	369.5	367.8	367.8	378.1	383.2	378.1	384.9	378.1
77.5°	200.2	205.3	215.6	222.4	229.2	234.4	241.2	244.6	242.9	246.4	242.9
80°	116.3	118.0	126.6	130.0	138.6	147.1	154.0	157.4	159.1	160.8	159.1
82.5°	66.7	68.4	71.9	75.3	82.1	89.0	95.8	100.9	100.9	102.6	100.9
85°	32.5	32.5	34.2	35.9	39.3	44.5	49.6	54.7	56.5	56.5	56.5
87.5°	5.1	5.1	6.8	6.8	8.6	10.3	13.7	17.1	18.8	18.8	18.8
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)