

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: P637965

Luminaire Tested: GWS-SA4D-830-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-830-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16429.6 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

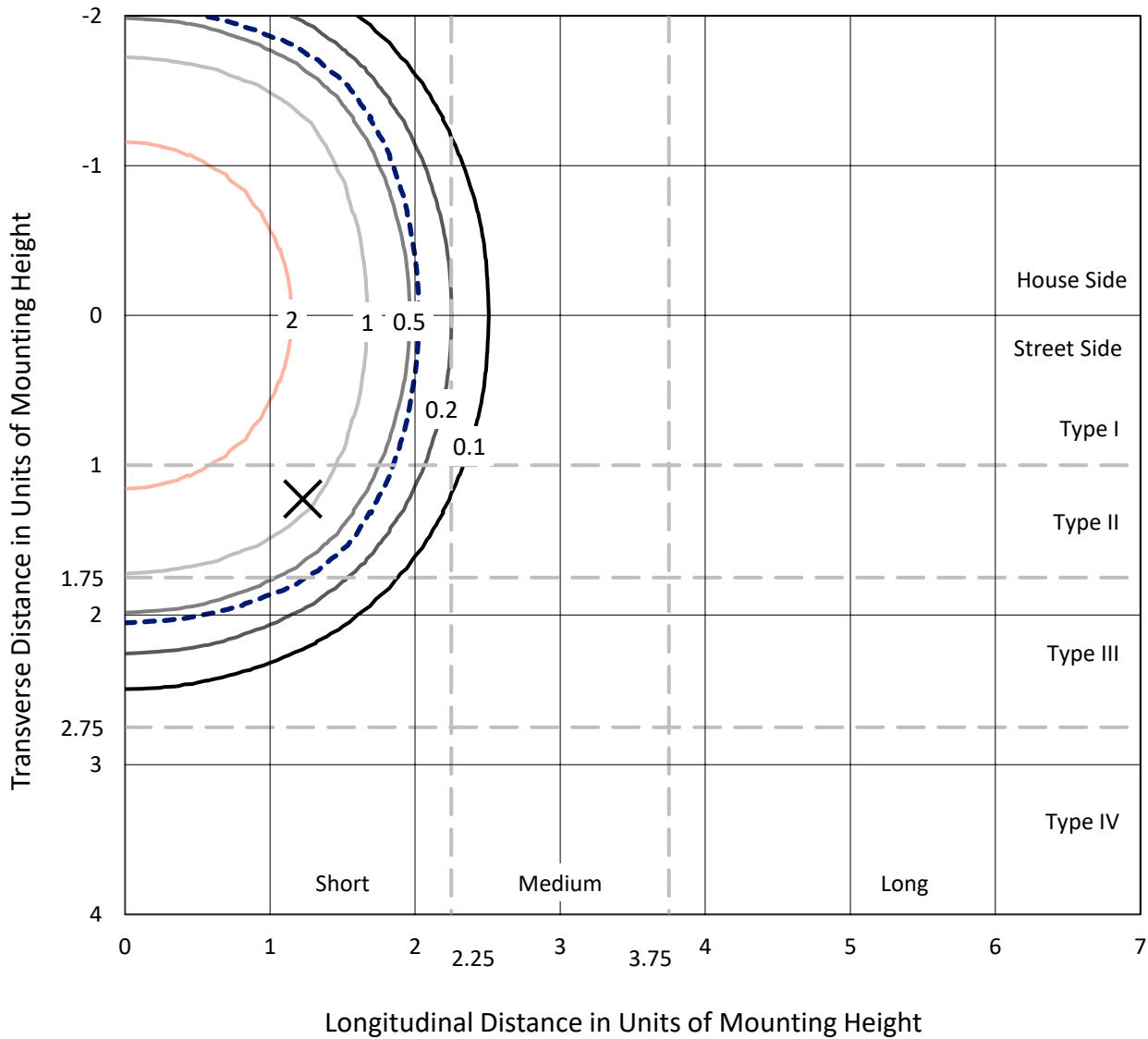
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637965
 CATALOG NUMBER: GWS-SA4D-830-U-5WQ-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

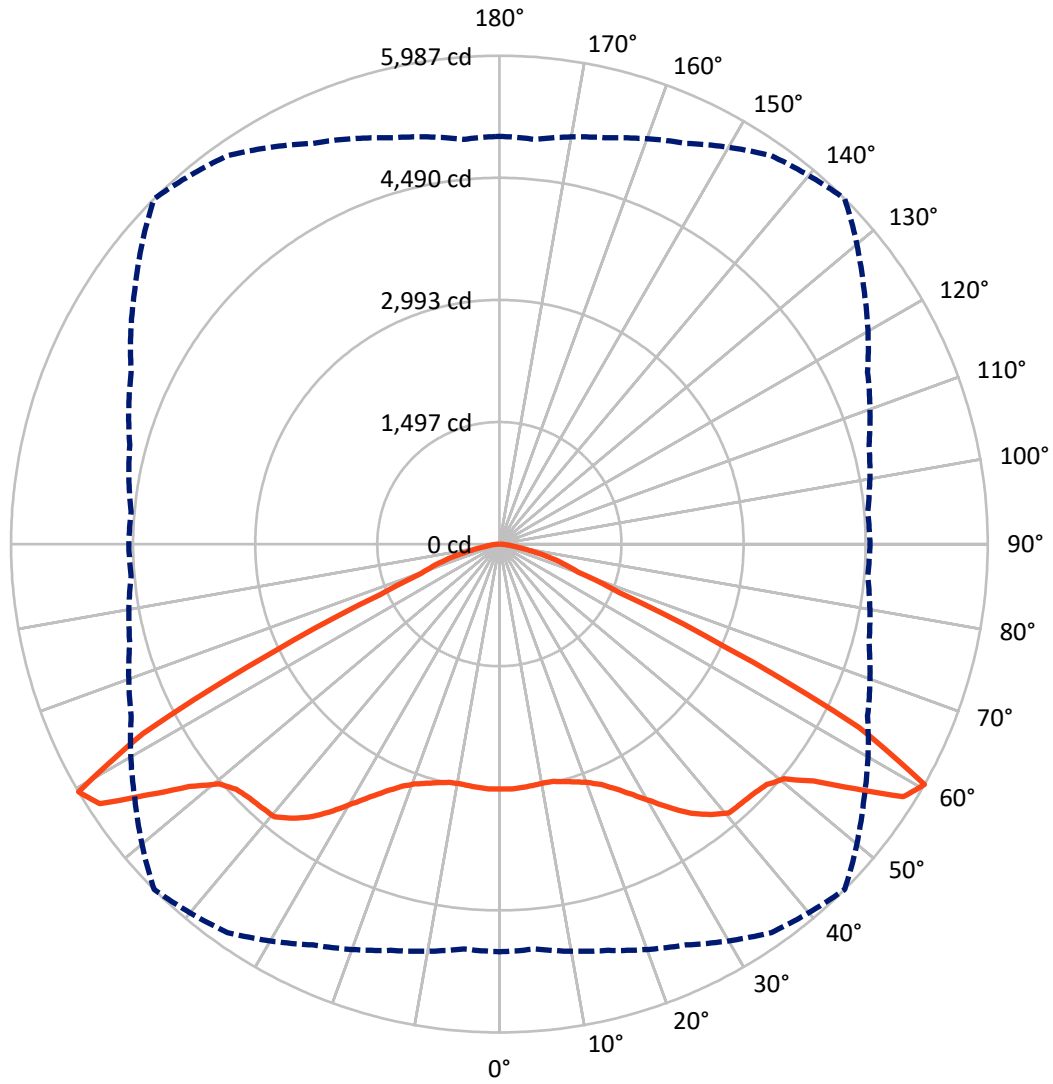
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

REPORT NUMBER: P637965
CATALOG NUMBER: GWS-SA4D-830-U-5WQ-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P637965

CATALOG NUMBER: GWS-SA4D-830-U-5WQ-W-GRSWH

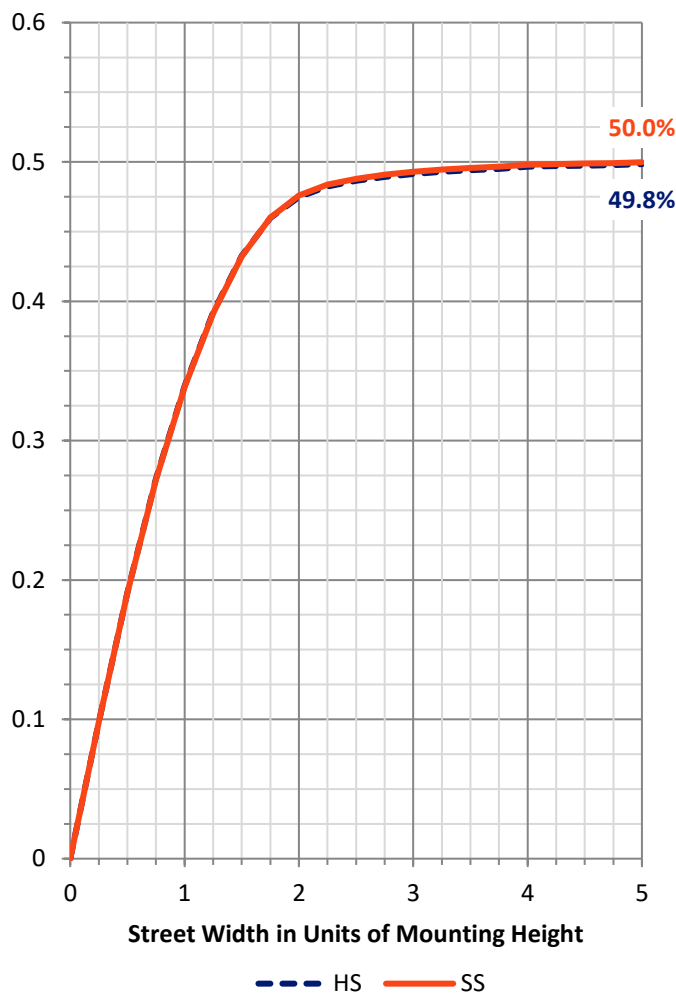
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8214.8	0.0	8214.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8214.8	0.0	8214.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	16429.6	0.0	16429.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	1.7
10°-20°	856.5	5.2
20°-30°	1515.2	9.2
30°-40°	2439.6	14.8
40°-50°	3353.1	20.4
50°-60°	4468.4	27.2
60°-70°	2784.9	17.0
70°-80°	640.4	3.9
80°-90°	86.9	0.5
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°	16429.6	100.0
0°-180°	16429.6	100.0

Coefficient of Utilization



REPORT NUMBER: P637965

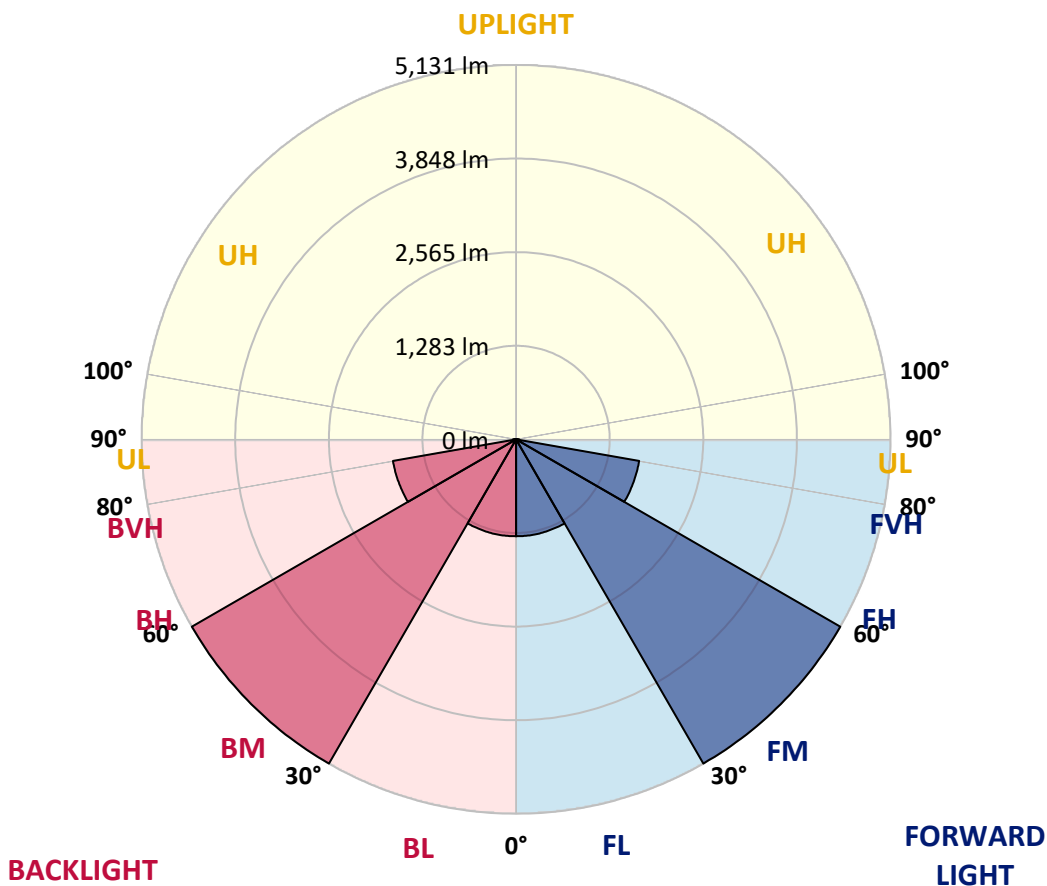
CATALOG NUMBER: GWS-SA4D-830-U-5WQ-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1328.2	8.1			
FM (30°-60°)	5130.5	31.2			
FH (60°-80°)	1712.6	10.4			G1/1800
FVH (80°-90°)	43.4	0.3			G1/100
BL (0°-30°)	1328.2	8.1	B3/2500		
BM (30°-60°)	5130.5	31.2	B4/8500		
BH (60°-80°)	1712.6	10.4	B3/2500		G1/1800
BVH (80°-90°)	43.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





REPORT NUMBER: P637965

CATALOG NUMBER: GWS-SA4D-830-U-5WQ-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5
2.5°	2981.6	2984.4	2989.9	2994.1	2999.7	3005.3	3008.1	3002.5	2999.7	2988.5	3001.1
5°	2984.4	2987.1	2991.3	2991.3	2992.7	2996.9	2996.9	2989.9	2983.0	2970.4	2984.4
7.5°	2980.2	2983.0	2984.4	2983.0	2984.4	2985.8	2983.0	2974.6	2967.6	2956.5	2967.6
10°	2973.2	2976.0	2978.8	2976.0	2973.2	2977.4	2977.4	2971.8	2967.6	2956.5	2969.0
12.5°	2988.5	2992.7	2994.1	2987.1	2984.4	2985.8	2985.8	2980.2	2980.2	2970.4	2984.4
15°	3024.8	3027.6	3023.4	3015.0	3016.4	3020.6	3010.9	2996.9	2994.1	2989.9	3001.1
17.5°	3052.7	3055.5	3051.3	3045.7	3055.5	3065.2	3047.1	3020.6	3012.2	3009.5	3022.0
20°	3083.4	3087.6	3082.0	3088.9	3108.5	3119.6	3097.3	3061.1	3044.3	3040.1	3055.5
22.5°	3133.6	3139.2	3139.2	3154.5	3183.8	3201.9	3174.0	3125.2	3100.1	3093.1	3108.5
25°	3213.1	3217.2	3221.4	3252.1	3299.5	3324.6	3280.0	3213.1	3178.2	3167.0	3175.4
27.5°	3323.2	3330.2	3337.2	3381.8	3440.4	3476.6	3412.5	3328.8	3285.6	3263.3	3280.0
30°	3454.3	3464.1	3480.8	3531.0	3613.3	3653.7	3571.5	3469.7	3420.9	3397.1	3419.5
32.5°	3632.8	3634.2	3646.8	3702.6	3811.3	3857.4	3754.2	3641.2	3591.0	3563.1	3575.6
35°	3844.8	3846.2	3826.7	3883.8	4001.0	4052.6	3931.3	3816.9	3775.1	3766.7	3798.8
37.5°	4062.4	4049.8	4030.3	4055.4	4173.9	4207.4	4079.1	3981.5	3963.3	3978.7	4026.1
40°	4217.1	4196.2	4157.2	4175.3	4295.2	4334.3	4197.6	4105.6	4100.0	4137.7	4194.8
42.5°	4317.6	4295.2	4249.2	4249.2	4331.5	4348.2	4242.2	4193.4	4206.0	4249.2	4303.6
45°	4366.4	4353.8	4327.3	4313.4	4359.4	4366.4	4285.5	4266.0	4289.7	4310.6	4352.4
47.5°	4404.0	4404.0	4395.7	4381.7	4402.6	4406.8	4346.8	4341.3	4371.9	4371.9	4399.8
50°	4471.0	4477.9	4489.1	4486.3	4508.6	4522.6	4477.9	4469.6	4482.1	4441.7	4455.6
52.5°	4646.7	4664.8	4696.9	4722.0	4779.2	4822.4	4742.9	4676.0	4610.4	4521.2	4523.9
55°	4961.8	4970.2	5033.0	5106.9	5203.1	5291.0	5127.8	4920.0	4777.8	4673.2	4674.6
57.5°	5228.2	5240.8	5332.8	5487.6	5703.7	5840.4	5479.2	5132.0	4931.2	4802.9	4807.0
60°	4998.1	4981.4	5155.7	5420.7	5812.5	5986.8	5454.1	4980.0	4691.3	4532.3	4543.5
62.5°	3867.1	3835.0	4028.9	4306.4	4776.4	4950.7	4459.8	4005.2	3731.8	3607.7	3589.6
65°	2354.0	2324.7	2464.2	2634.3	2952.3	3062.5	2837.9	2596.7	2358.2	2282.9	2262.0
67.5°	1281.6	1277.4	1315.1	1398.7	1538.2	1589.8	1546.6	1432.2	1370.9	1317.9	1317.9
70°	1016.6	1008.3	1001.3	1002.7	1015.2	1022.2	1023.6	1018.0	1025.0	1026.4	1020.8
72.5°	842.3	839.5	825.6	827.0	821.4	818.6	828.4	833.9	845.1	846.5	846.5
75°	610.8	603.8	610.8	612.2	606.6	606.6	613.6	612.2	617.8	620.6	605.2
77.5°	347.2	347.2	357.0	368.2	376.5	376.5	383.5	383.5	390.5	389.1	386.3
80°	191.1	191.1	196.6	203.6	212.0	220.3	227.3	228.7	232.9	231.5	227.3
82.5°	108.8	110.2	113.0	117.1	125.5	132.5	139.5	140.9	145.0	145.0	140.9
85°	51.6	50.2	51.6	54.4	58.6	64.1	71.1	75.3	78.1	78.1	75.3
87.5°	9.8	11.2	9.8	11.2	12.6	16.7	19.5	22.3	26.5	27.9	25.1
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)