

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: P640436

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16792.8 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

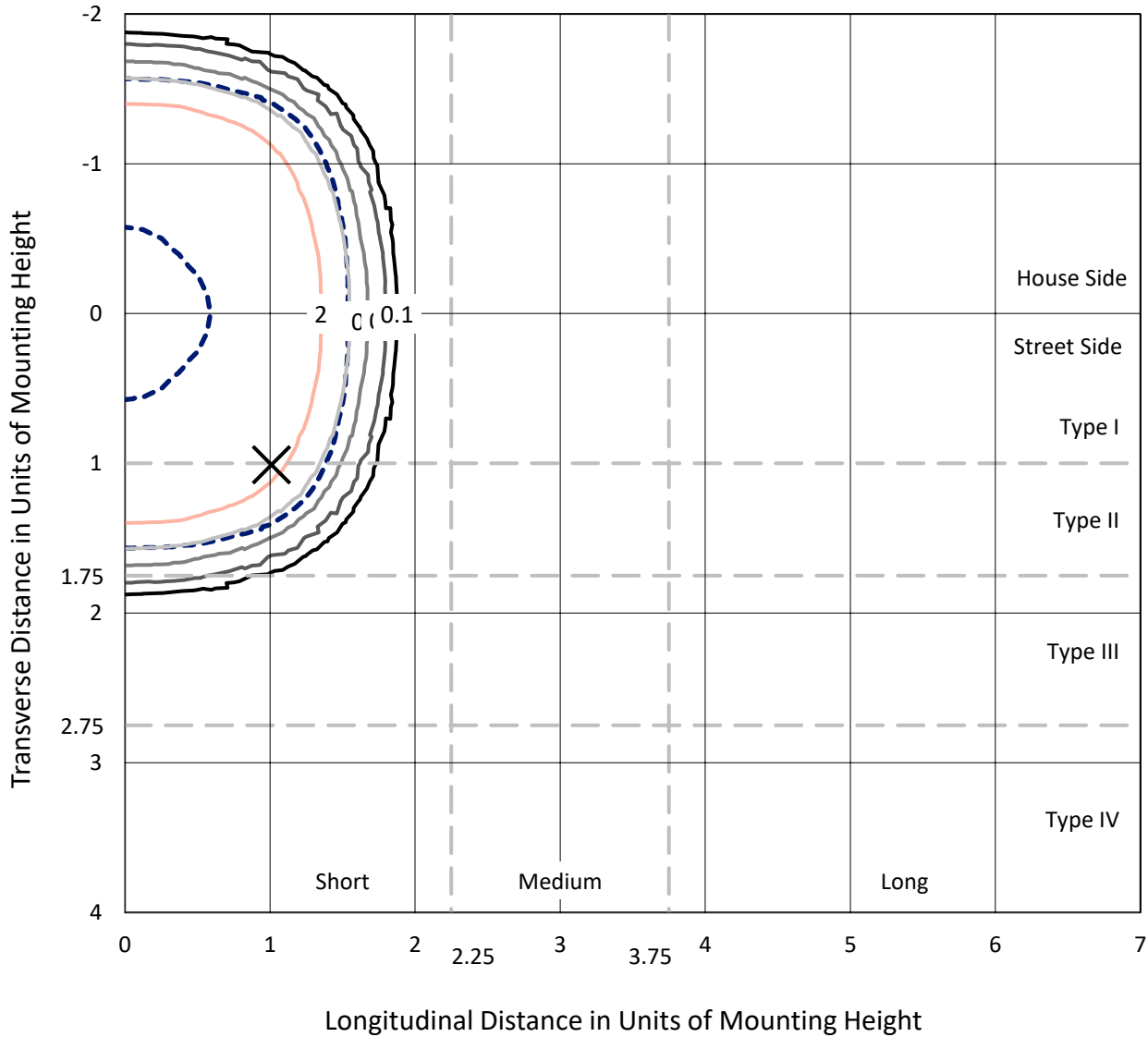
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640436
 CATALOG NUMBER: GWS-SA5D-830-U-5NQ-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

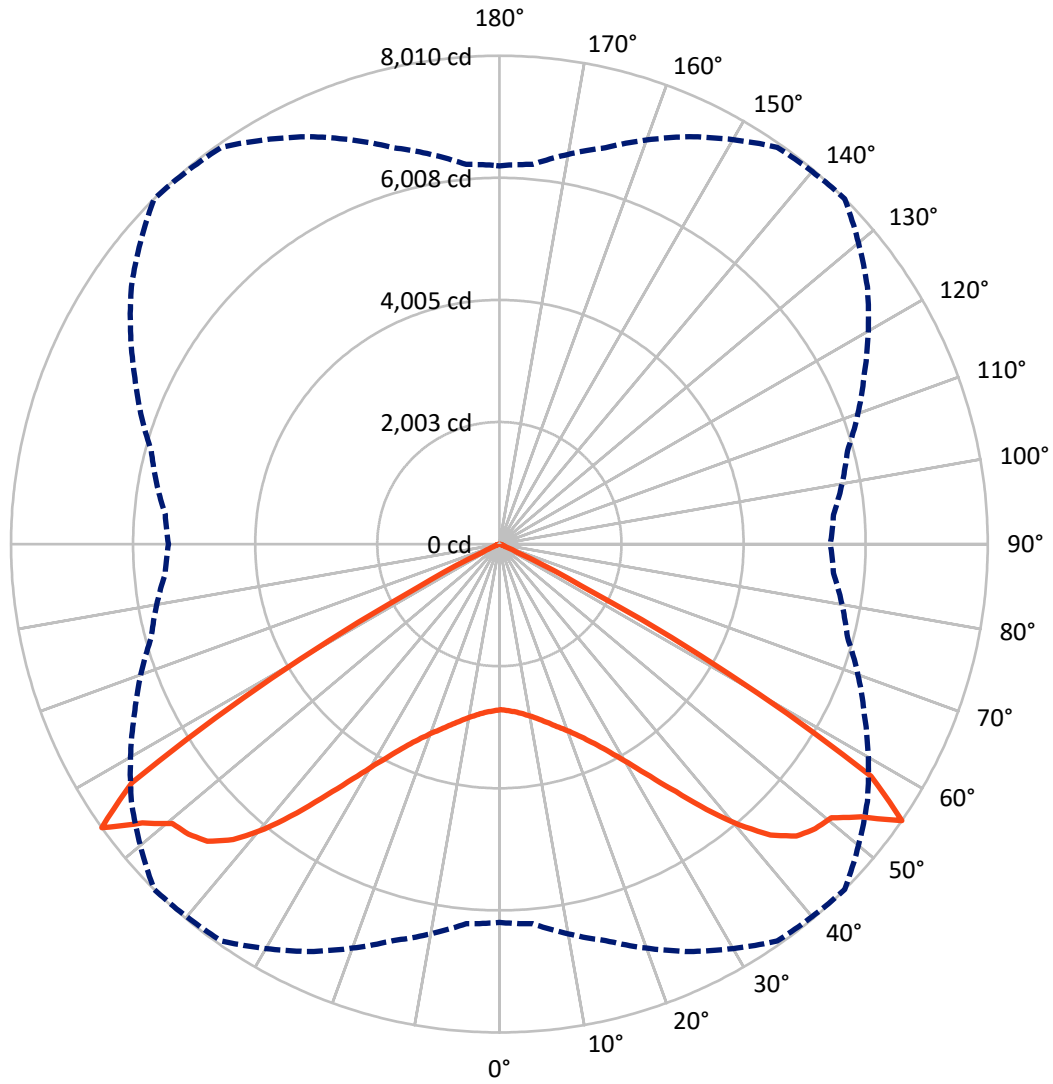
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P640436
CATALOG NUMBER: GWS-SA5D-830-U-5NQ-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P640436

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

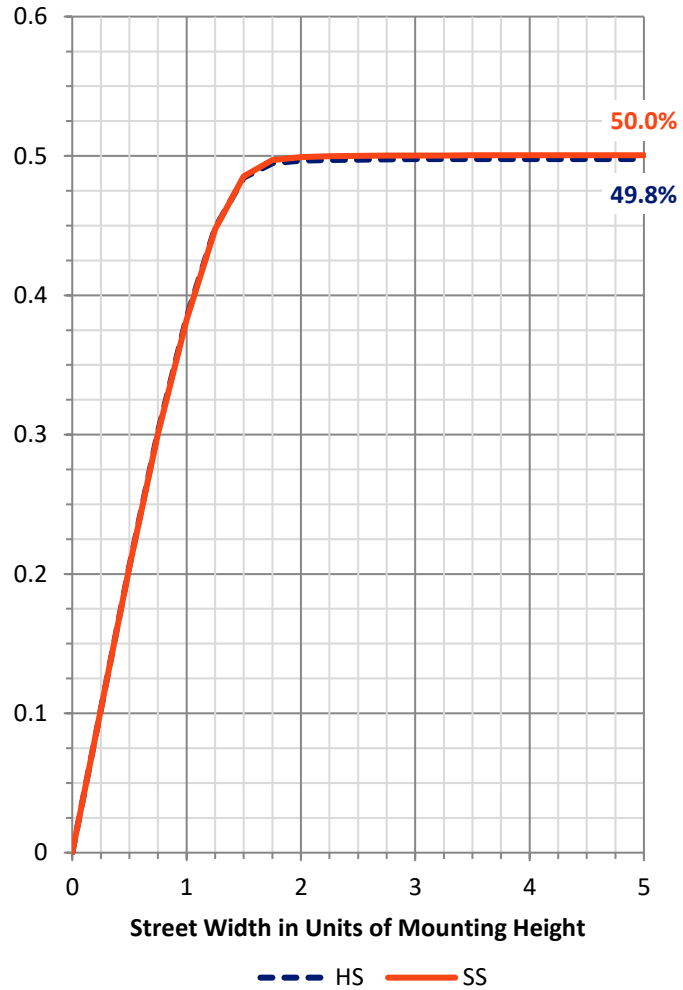
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8396.4	0.0	8396.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8396.4	0.0	8396.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	16792.8	0.0	16792.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.0	1.6
10°-20°	862.3	5.1
20°-30°	1670.0	9.9
30°-40°	2991.8	17.8
40°-50°	5016.0	29.9
50°-60°	5369.4	32.0
60°-70°	590.0	3.5
70°-80°	26.0	0.2
80°-90°	1.2	0.0
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°	16792.8	100.0
0°-180°	16792.8	100.0

Coefficient of Utilization



REPORT NUMBER: P640436

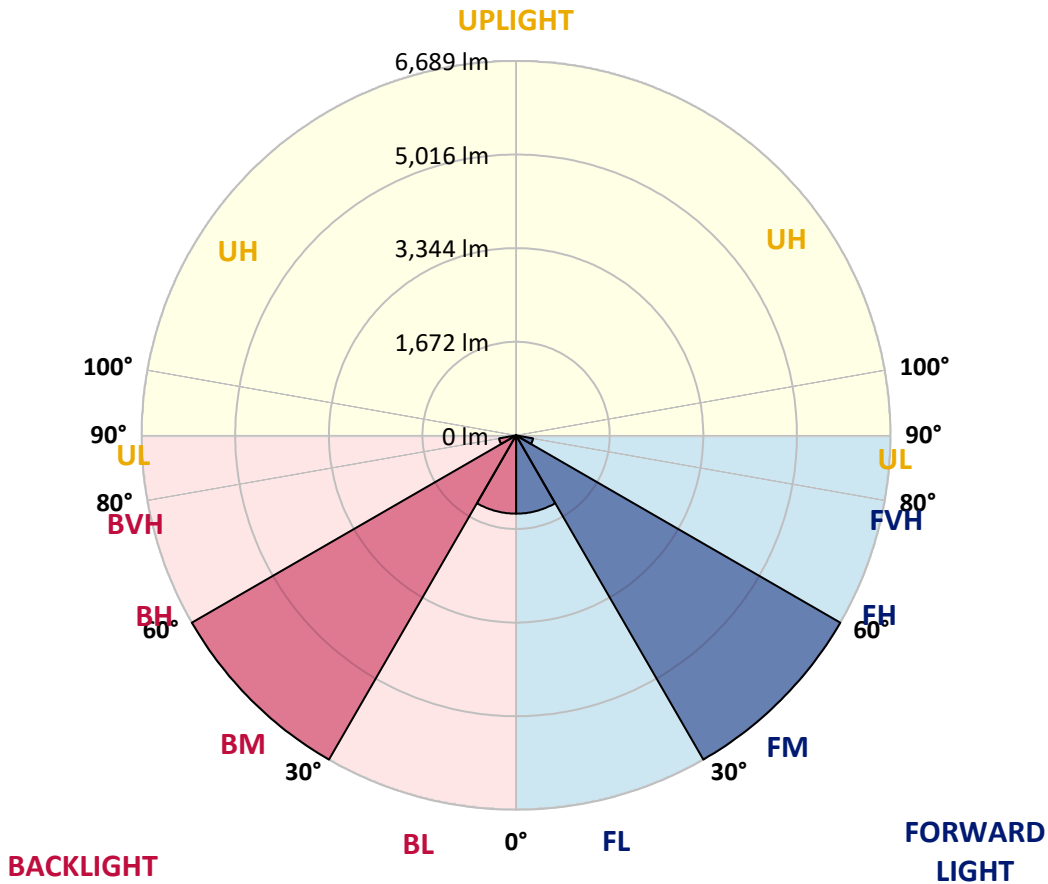
CATALOG NUMBER: GWS-SA5D-830-U-5NQ-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1399.1	8.3			
FM (30°-60°)	6688.6	39.8			
FH (60°-80°)	308.0	1.8			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1399.1	8.3	B3/2500		
BM (30°-60°)	6688.6	39.8	B4/8500		
BH (60°-80°)	308.0	1.8	B1/500		G0/660
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





REPORT NUMBER: P640436
 CATALOG NUMBER: GWS-SA5D-830-U-5NQ-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2715.1	2715.1	2715.1	2715.1	2715.1	2715.1	2715.1	2715.1	2715.1	2715.1	2715.1
2.5°	2709.9	2709.9	2716.8	2721.9	2721.9	2735.6	2730.5	2725.3	2725.3	2718.5	2732.2
5°	2749.3	2747.6	2754.4	2757.8	2751.0	2764.7	2756.1	2751.0	2747.6	2740.7	2754.4
7.5°	2792.1	2793.8	2795.5	2802.3	2798.9	2812.6	2805.7	2795.5	2792.1	2781.8	2795.5
10°	2843.4	2843.4	2846.8	2855.4	2857.1	2874.2	2867.3	2855.4	2845.1	2834.8	2848.5
12.5°	2908.4	2910.1	2915.2	2927.2	2934.1	2952.9	2942.6	2918.7	2903.3	2891.3	2906.7
15°	3002.5	3000.8	3007.6	3024.7	3033.3	3047.0	3031.6	2999.1	2980.2	2966.6	2976.8
17.5°	3105.1	3105.1	3108.6	3125.7	3137.6	3158.2	3139.4	3100.0	3082.9	3064.1	3074.3
20°	3218.1	3223.2	3226.6	3238.6	3259.1	3279.6	3264.2	3224.9	3206.1	3182.1	3194.1
22.5°	3366.9	3361.8	3363.5	3384.0	3413.1	3433.6	3421.6	3375.4	3342.9	3324.1	3331.0
25°	3532.8	3531.1	3536.3	3567.1	3599.6	3621.8	3604.7	3544.8	3512.3	3479.8	3493.5
27.5°	3736.4	3738.1	3741.6	3779.2	3830.5	3863.0	3820.3	3760.4	3715.9	3673.1	3683.4
30°	3977.7	3974.2	3984.5	4035.8	4111.1	4162.4	4112.8	4029.0	3965.7	3924.6	3929.8
32.5°	4234.3	4237.7	4265.1	4347.2	4446.4	4537.1	4436.2	4325.0	4242.8	4165.8	4176.1
35°	4511.4	4520.0	4581.6	4703.0	4865.6	4987.0	4846.8	4663.7	4547.4	4448.1	4451.6
37.5°	4838.2	4858.7	4944.3	5125.6	5358.3	5520.8	5315.5	5072.6	4922.0	4798.9	4790.3
40°	5267.6	5291.6	5407.9	5623.5	5905.8	6054.6	5816.8	5567.0	5380.5	5247.1	5226.6
42.5°	5760.3	5791.1	5917.7	6138.4	6420.7	6521.6	6289.0	6078.5	5910.9	5753.5	5746.6
45°	6316.3	6333.5	6436.1	6605.5	6809.1	6833.0	6658.5	6542.2	6372.8	6225.7	6213.7
47.5°	6838.1	6855.3	6925.4	7012.7	7060.6	6975.0	6944.2	6892.9	6673.9	6492.6	6454.9
50°	7235.1	7248.7	7336.0	7370.2	7236.8	7055.4	7115.3	7005.8	6768.0	6564.4	6506.3
52.5°	7207.7	7241.9	7466.0	7661.1	7577.2	7430.1	7269.3	7033.2	6663.6	6384.8	6312.9
55°	6205.1	6251.3	6732.1	7373.6	7946.8	8010.1	7366.8	6605.5	5910.9	5502.0	5428.4
57.5°	3987.9	3999.9	4586.7	5486.6	6778.3	7185.4	6109.3	4980.2	4116.2	3666.3	3635.5
60°	1466.2	1442.2	1885.3	2631.2	3904.1	4335.2	3596.1	2518.3	1796.4	1478.1	1452.5
62.5°	352.4	355.9	441.4	662.1	1224.9	1515.8	1197.6	668.9	426.0	357.6	354.1
65°	177.9	174.5	176.2	189.9	261.8	313.1	256.6	181.3	174.5	176.2	174.5
67.5°	114.6	112.9	116.3	118.0	116.3	109.5	107.8	111.2	111.2	112.9	109.5
70°	70.1	68.4	71.9	77.0	73.6	65.0	68.4	71.9	68.4	66.7	66.7
72.5°	37.6	37.6	41.1	44.5	41.1	37.6	37.6	39.3	37.6	37.6	37.6
75°	17.1	17.1	18.8	20.5	17.1	17.1	17.1	17.1	17.1	17.1	17.1
77.5°	5.1	5.1	6.8	6.8	5.1	5.1	5.1	5.1	6.8	6.8	6.8
80°	1.7	3.4	3.4	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
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)