

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: P640438

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)
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
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24942.8 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

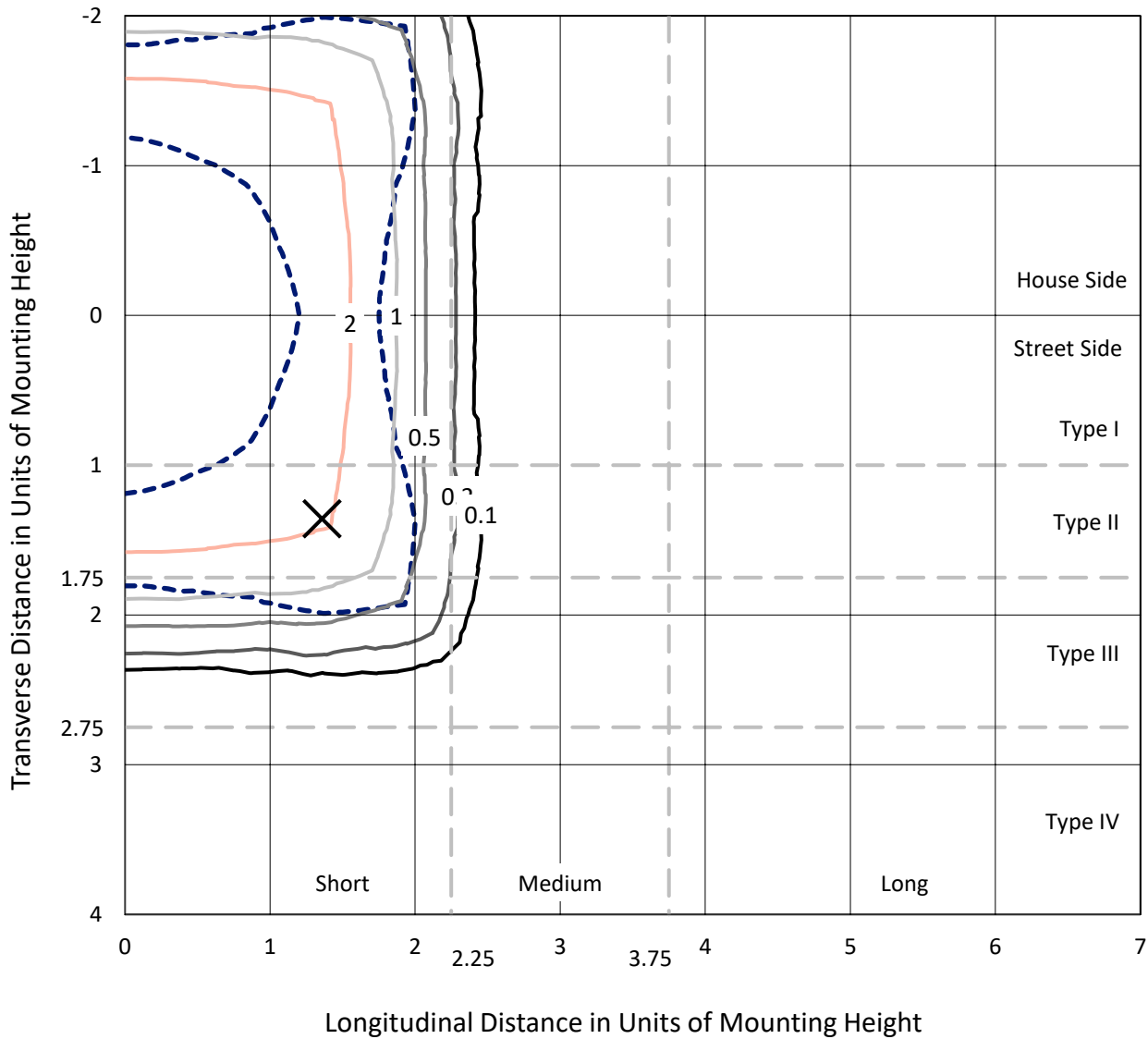
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

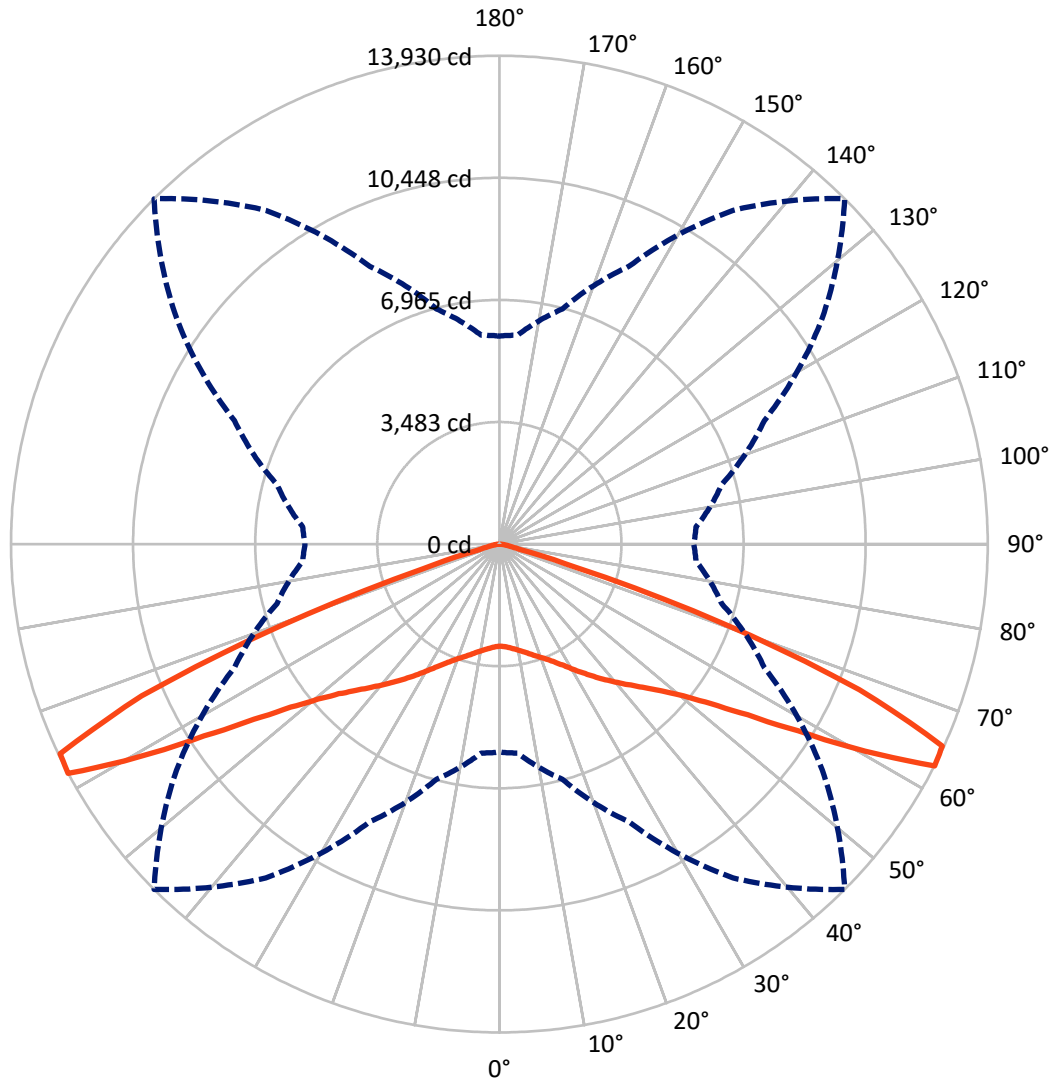
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12471.4	0.0	12471.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12471.4	0.0	12471.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	24942.8	0.0	24942.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	1.1
10°-20°	920.7	3.7
20°-30°	1741.8	7.0
30°-40°	2931.8	11.8
40°-50°	4684.1	18.8
50°-60°	7550.6	30.3
60°-70°	6160.4	24.7
70°-80°	598.2	2.4
80°-90°	69.6	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°	24942.8	100.0
0°-180°	24942.8	100.0

Coefficient of Utilization



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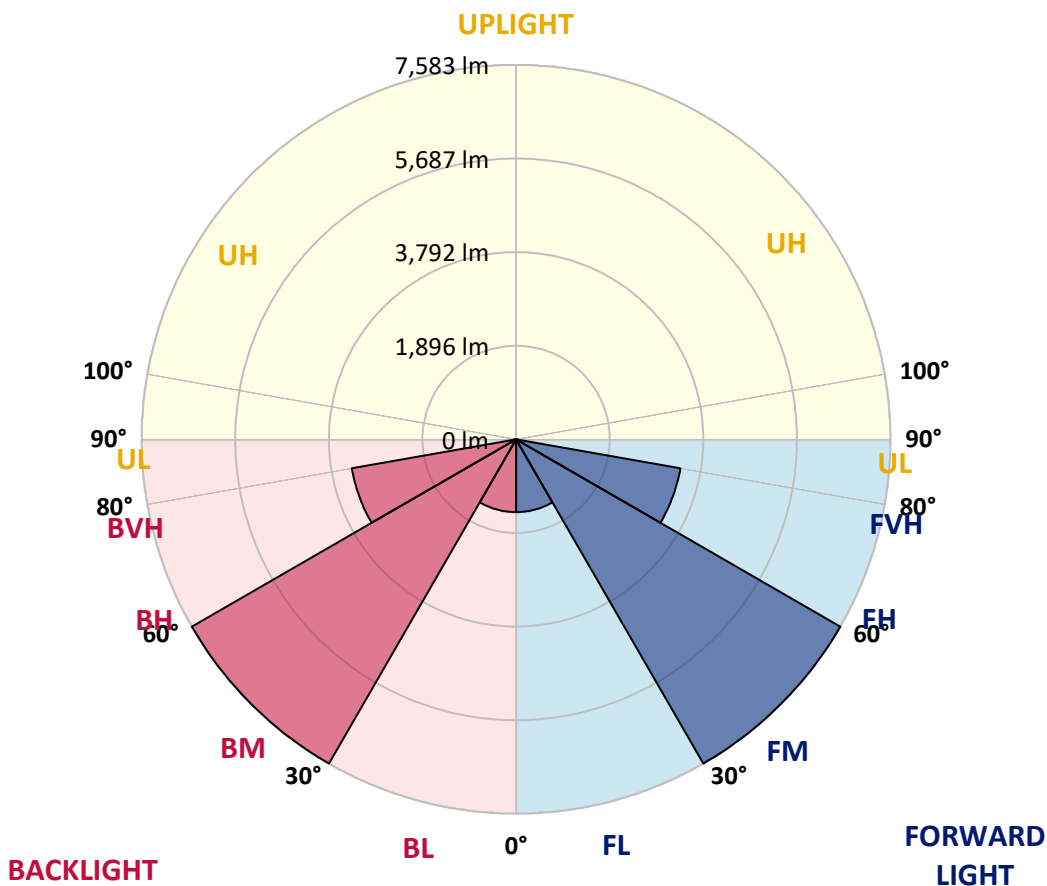
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.0	5.9			
FM (30°-60°)	7583.3	30.4			
FH (60°-80°)	3379.3	13.5			G2/5000
FVH (80°-90°)	34.8	0.1			G1/100
BL (0°-30°)	1474.0	5.9	B3/2500		
BM (30°-60°)	7583.3	30.4	B4/8500		
BH (60°-80°)	3379.3	13.5	B4/5000		G2/5000
BVH (80°-90°)	34.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2909.9	2909.9	2909.9	2909.9	2909.9	2909.9	2909.9	2909.9	2909.9	2909.9	2909.9
2.5°	2906.5	2906.5	2913.3	2918.5	2915.0	2928.7	2927.0	2923.6	2921.9	2916.8	2932.2
5°	2945.8	2945.8	2951.0	2956.1	2947.5	2964.7	2957.8	2954.4	2952.7	2945.8	2959.5
7.5°	2990.3	2995.4	2997.2	3005.7	3000.6	3019.4	3014.3	3007.4	3004.0	2995.4	3007.4
10°	3039.9	3043.3	3045.1	3060.5	3062.2	3084.4	3079.3	3070.7	3063.9	3055.3	3072.4
12.5°	3106.6	3108.4	3113.5	3132.3	3137.4	3154.5	3152.8	3140.9	3132.3	3120.3	3139.1
15°	3192.2	3193.9	3202.4	3221.3	3229.8	3250.3	3243.5	3224.7	3212.7	3199.0	3214.4
17.5°	3281.1	3288.0	3296.5	3315.4	3327.3	3351.3	3342.7	3322.2	3311.9	3298.2	3308.5
20°	3395.8	3397.5	3402.6	3423.1	3431.7	3459.1	3460.8	3440.2	3435.1	3421.4	3436.8
22.5°	3522.3	3524.1	3529.2	3551.4	3566.8	3583.9	3594.2	3582.2	3573.7	3556.6	3575.4
25°	3662.6	3679.7	3684.9	3712.2	3729.3	3739.6	3751.6	3746.5	3734.5	3713.9	3722.5
27.5°	3859.4	3862.8	3871.3	3902.1	3912.4	3922.7	3934.6	3936.3	3919.2	3895.3	3907.3
30°	4083.5	4081.7	4100.6	4124.5	4133.1	4141.6	4158.7	4169.0	4146.8	4121.1	4133.1
32.5°	4312.7	4333.2	4357.2	4379.4	4374.3	4377.7	4405.1	4423.9	4393.1	4346.9	4357.2
35°	4571.0	4584.7	4615.5	4648.0	4641.2	4636.0	4653.1	4671.9	4629.2	4569.3	4584.7
37.5°	4836.2	4856.7	4902.9	4942.2	4932.0	4908.0	4926.8	4947.4	4906.3	4837.9	4831.0
40°	5132.1	5164.6	5231.3	5263.8	5236.5	5190.3	5222.8	5272.4	5231.3	5152.7	5133.8
42.5°	5479.4	5518.7	5585.5	5635.1	5575.2	5499.9	5554.7	5626.5	5616.3	5511.9	5479.4
45°	5908.8	5934.4	6016.6	6040.5	5951.6	5847.2	5946.4	6055.9	6030.2	5917.3	5874.6
47.5°	6375.8	6415.2	6487.0	6531.5	6387.8	6257.8	6396.3	6543.5	6516.1	6410.0	6360.4
50°	6971.1	7022.5	7116.5	7154.2	6955.7	6806.9	6984.8	7171.3	7118.3	6976.3	6911.3
52.5°	7619.5	7660.5	7821.4	7896.6	7710.2	7549.4	7705.0	7888.1	7775.2	7587.0	7499.7
55°	8190.9	8231.9	8468.0	8717.8	8709.2	8598.0	8676.7	8680.1	8373.9	8062.6	7970.2
57.5°	8314.0	8355.1	8805.0	9458.5	9920.4	10048.7	9817.8	9331.9	8560.4	8014.7	7910.3
60°	7657.1	7703.3	8418.4	9612.5	11131.6	11988.6	10924.6	9318.2	7983.9	7244.8	7145.6
62.5°	5932.7	5982.3	6943.8	8736.6	11620.8	13930.3	11246.2	8338.0	6567.4	5631.7	5544.4
65°	2832.9	2832.9	4054.4	6266.3	10645.7	13884.1	10315.6	6168.8	3953.4	3036.5	2961.2
67.5°	701.4	704.8	1043.5	2439.5	7241.4	11080.3	7359.5	2961.2	1392.5	985.4	959.7
70°	437.9	436.2	484.1	660.3	2533.6	6724.8	3009.1	893.0	566.2	499.5	496.1
72.5°	340.4	340.4	364.4	422.5	663.8	2290.6	877.6	496.1	410.6	369.5	369.5
75°	268.6	268.6	285.7	316.5	391.8	590.2	467.0	367.8	318.2	290.8	287.4
77.5°	200.2	203.6	217.3	237.8	266.9	331.9	296.0	277.1	248.1	227.5	220.7
80°	130.0	135.1	152.3	164.2	174.5	219.0	193.3	201.9	188.2	164.2	160.8
82.5°	70.1	71.8	92.4	95.8	99.2	119.7	123.2	128.3	133.4	104.4	97.5
85°	25.7	25.7	30.8	35.9	39.3	42.8	58.2	71.8	75.3	59.9	58.2
87.5°	5.1	5.1	5.1	3.4	3.4	3.4	10.3	18.8	30.8	23.9	23.9
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)