

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: P640440

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640440
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-SA5D-830-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE 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: 20154.4 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

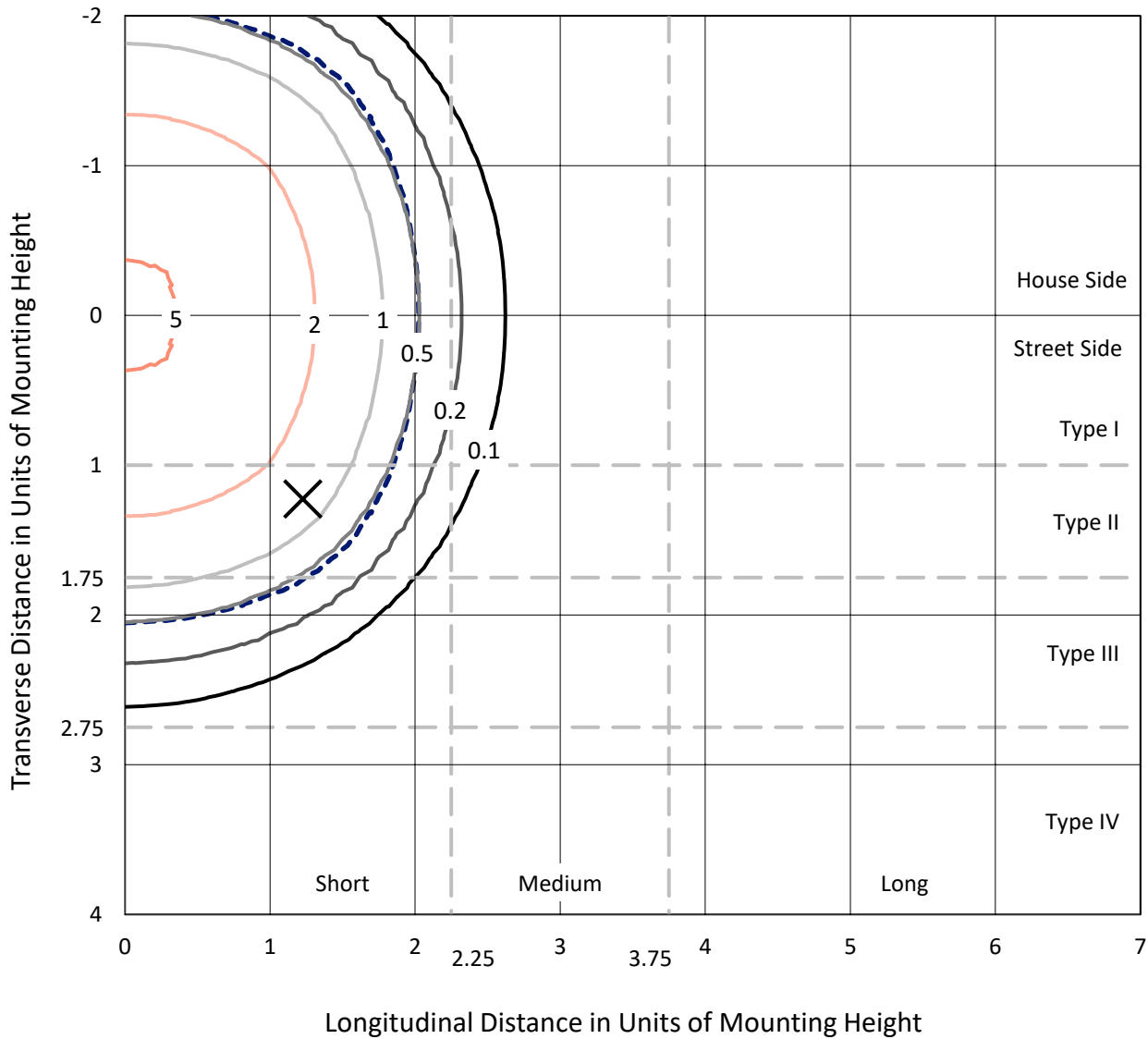
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

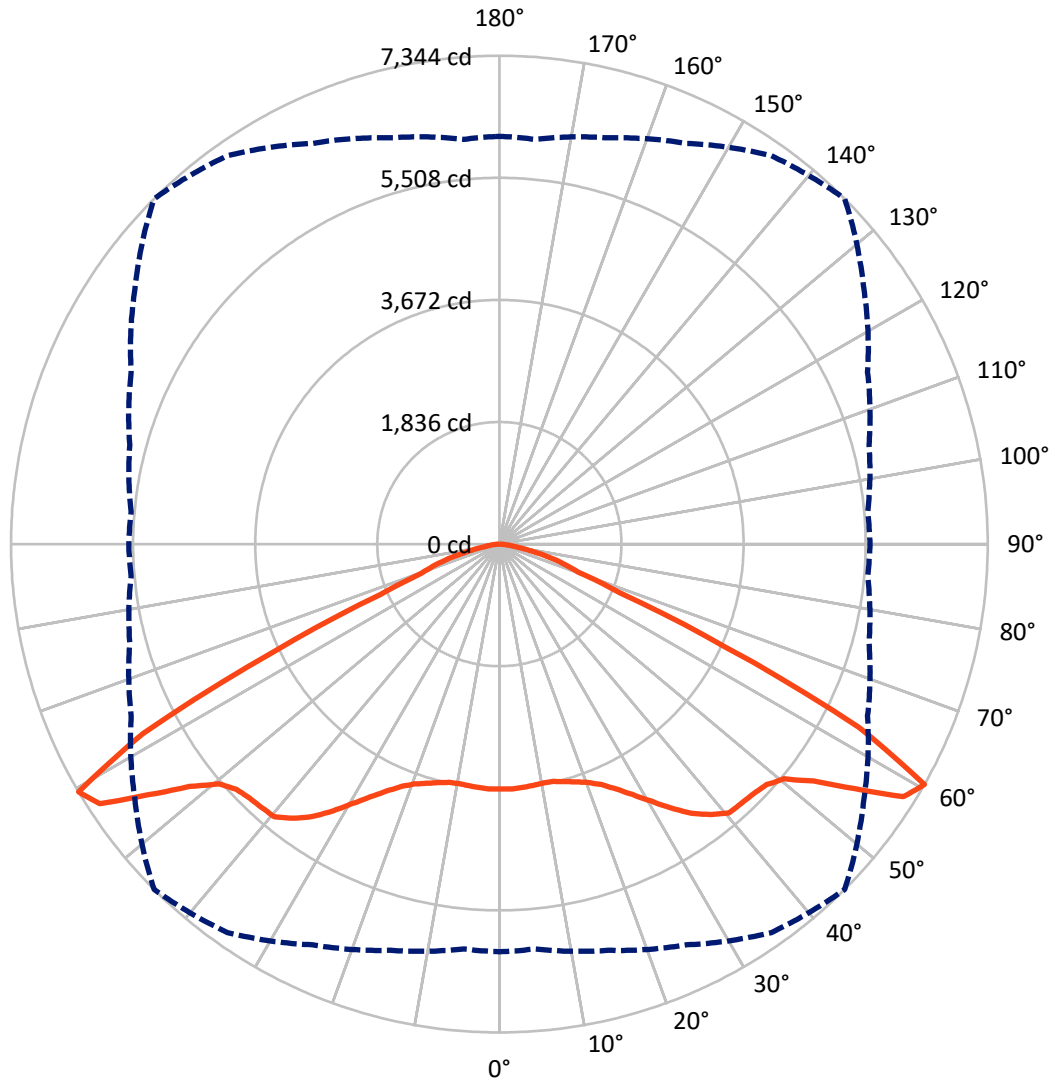
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10077.2	0.0	10077.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10077.2	0.0	10077.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	20154.4	0.0	20154.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.3	1.7
10°-20°	1050.6	5.2
20°-30°	1858.7	9.2
30°-40°	2992.6	14.8
40°-50°	4113.3	20.4
50°-60°	5481.4	27.2
60°-70°	3416.2	17.0
70°-80°	785.6	3.9
80°-90°	106.6	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°	20154.4	100.0
0°-180°	20154.4	100.0

Coefficient of Utilization



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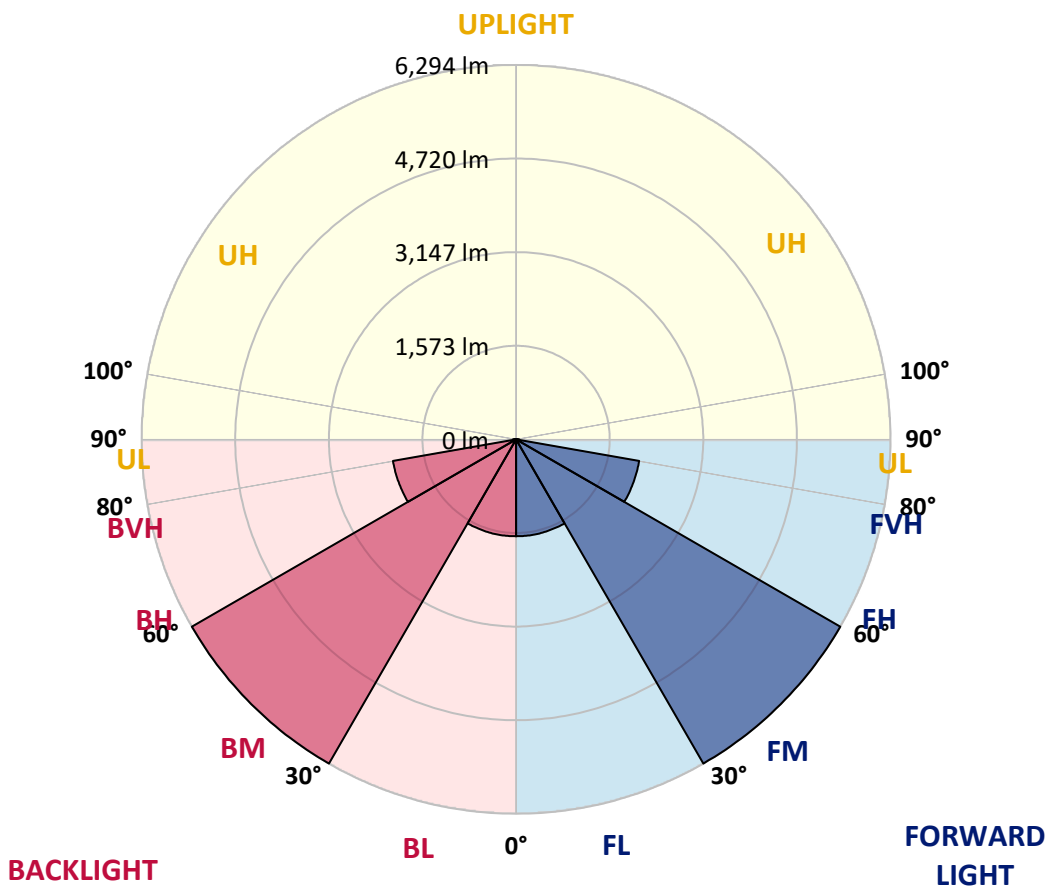
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1629.3	8.1			
FM (30°-60°)	6293.7	31.2			
FH (60°-80°)	2100.9	10.4			G2/5000
FVH (80°-90°)	53.3	0.3			G1/100
BL (0°-30°)	1629.3	8.1	B3/2500		
BM (30°-60°)	6293.7	31.2	B4/8500		
BH (60°-80°)	2100.9	10.4	B3/2500		G2/5000
BVH (80°-90°)	53.3	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3683.2	3683.2	3683.2	3683.2	3683.2	3683.2	3683.2	3683.2	3683.2	3683.2	3683.2
2.5°	3657.5	3660.9	3667.8	3672.9	3679.8	3686.6	3690.0	3683.2	3679.8	3666.1	3681.5
5°	3660.9	3664.4	3669.5	3669.5	3671.2	3676.3	3676.3	3667.8	3659.2	3643.8	3660.9
7.5°	3655.8	3659.2	3660.9	3659.2	3660.9	3662.7	3659.2	3649.0	3640.4	3626.7	3640.4
10°	3647.3	3650.7	3654.1	3650.7	3647.3	3652.4	3652.4	3645.6	3640.4	3626.7	3642.1
12.5°	3666.1	3671.2	3672.9	3664.4	3660.9	3662.7	3662.7	3655.8	3655.8	3643.8	3660.9
15°	3710.6	3714.0	3708.8	3698.6	3700.3	3705.4	3693.5	3676.3	3672.9	3667.8	3681.5
17.5°	3744.8	3748.2	3743.1	3736.2	3748.2	3760.2	3737.9	3705.4	3695.2	3691.7	3707.1
20°	3782.4	3787.5	3780.7	3789.3	3813.2	3826.9	3799.5	3755.0	3734.5	3729.4	3748.2
22.5°	3844.0	3850.8	3850.8	3869.7	3905.6	3927.8	3893.6	3833.7	3802.9	3794.4	3813.2
25°	3941.5	3946.6	3951.8	3989.4	4047.6	4078.4	4023.6	3941.5	3898.7	3885.1	3895.3
27.5°	4076.7	4085.2	4093.8	4148.5	4220.4	4264.8	4186.1	4083.5	4030.5	4003.1	4023.6
30°	4237.5	4249.4	4270.0	4331.6	4432.5	4482.1	4381.2	4256.3	4196.4	4167.3	4194.7
32.5°	4456.4	4458.1	4473.5	4542.0	4675.4	4731.9	4605.3	4466.7	4405.1	4370.9	4386.3
35°	4716.5	4718.2	4694.2	4764.4	4908.1	4971.4	4822.5	4682.3	4630.9	4620.7	4660.0
37.5°	4983.3	4967.9	4944.0	4974.8	5120.2	5161.3	5003.9	4884.1	4861.9	4880.7	4938.9
40°	5173.2	5147.6	5099.7	5121.9	5269.0	5316.9	5149.3	5036.4	5029.5	5075.7	5145.9
42.5°	5296.4	5269.0	5212.6	5212.6	5313.5	5334.0	5204.0	5144.1	5159.5	5212.6	5279.3
45°	5356.3	5340.9	5308.4	5291.3	5347.7	5356.3	5257.1	5233.1	5262.2	5287.8	5339.2
47.5°	5402.5	5402.5	5392.2	5375.1	5400.8	5405.9	5332.3	5325.5	5363.1	5363.1	5397.3
50°	5484.6	5493.1	5506.8	5503.4	5530.8	5547.9	5493.1	5482.9	5498.3	5448.7	5465.8
52.5°	5700.1	5722.4	5761.7	5792.5	5862.6	5915.7	5818.2	5736.1	5655.7	5546.2	5549.6
55°	6086.8	6097.0	6174.0	6264.7	6382.7	6490.5	6290.3	6035.4	5860.9	5732.6	5734.3
57.5°	6413.5	6428.9	6541.8	6731.7	6996.9	7164.5	6721.4	6295.5	6049.1	5891.7	5896.9
60°	6131.2	6110.7	6324.5	6649.6	7130.3	7344.1	6690.6	6109.0	5754.9	5559.9	5573.5
62.5°	4743.8	4704.5	4942.3	5282.7	5859.2	6073.1	5470.9	4913.2	4577.9	4425.6	4403.4
65°	2887.7	2851.8	3022.8	3231.6	3621.6	3756.7	3481.3	3185.4	2892.8	2800.5	2774.8
67.5°	1572.2	1567.0	1613.2	1715.9	1886.9	1950.2	1897.2	1756.9	1681.6	1616.6	1616.6
70°	1247.1	1236.9	1228.3	1230.0	1245.4	1254.0	1255.7	1248.8	1257.4	1259.1	1252.2
72.5°	1033.3	1029.9	1012.7	1014.5	1007.6	1004.2	1016.2	1023.0	1036.7	1038.4	1038.4
75°	749.3	740.7	749.3	751.0	744.2	744.2	752.7	751.0	757.9	761.3	742.5
77.5°	426.0	426.0	437.9	451.6	461.9	461.9	470.4	470.4	479.0	477.3	473.9
80°	234.4	234.4	241.2	249.8	260.0	270.3	278.8	280.6	285.7	284.0	278.8
82.5°	133.4	135.1	138.6	143.7	154.0	162.5	171.1	172.8	177.9	177.9	172.8
85°	63.3	61.6	63.3	66.7	71.9	78.7	87.2	92.4	95.8	95.8	92.4
87.5°	12.0	13.7	12.0	13.7	15.4	20.5	24.0	27.4	32.5	34.2	30.8
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)