

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: P638954

Luminaire Tested: GWS-SA4F-830-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-830-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14224 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

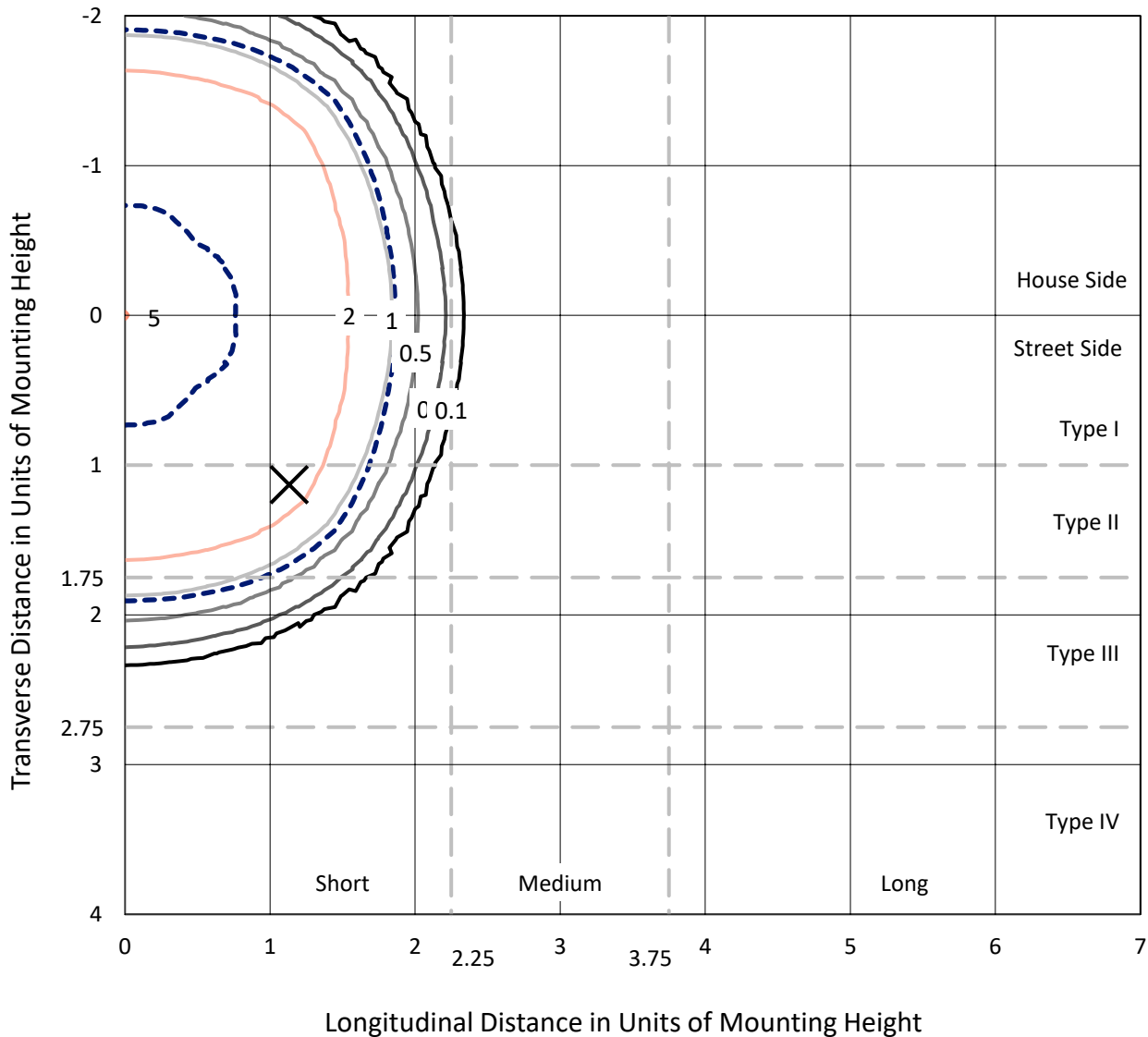
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

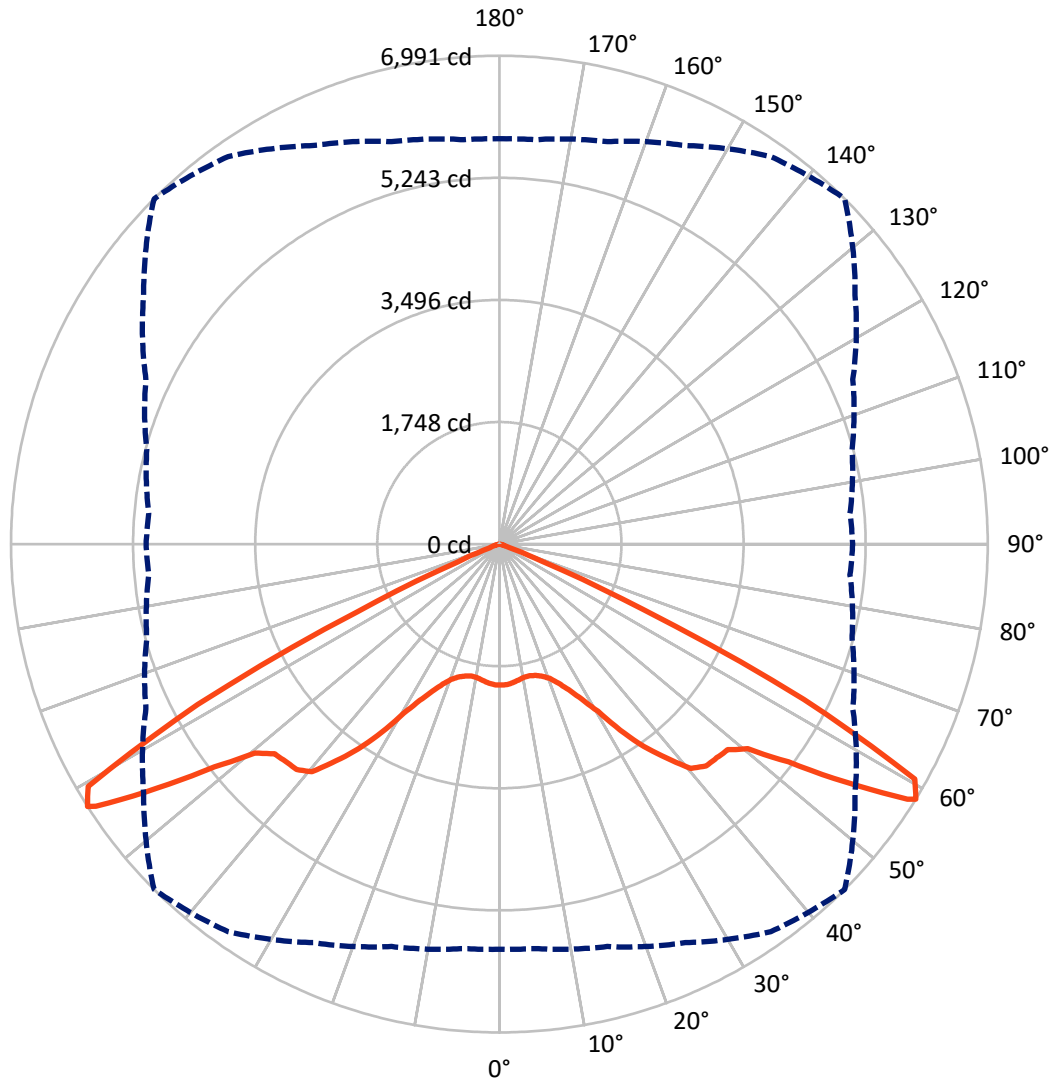
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7112.0	0.0	7112.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7112.0	0.0	7112.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14224.0	0.0	14224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	1.3
10°-20°	556.9	3.9
20°-30°	1053.2	7.4
30°-40°	2077.2	14.6
40°-50°	3287.1	23.1
50°-60°	4831.8	34.0
60°-70°	2156.7	15.2
70°-80°	72.3	0.5
80°-90°	0.6	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°	14224.0	100.0
0°-180°	14224.0	100.0

Coefficient of Utilization



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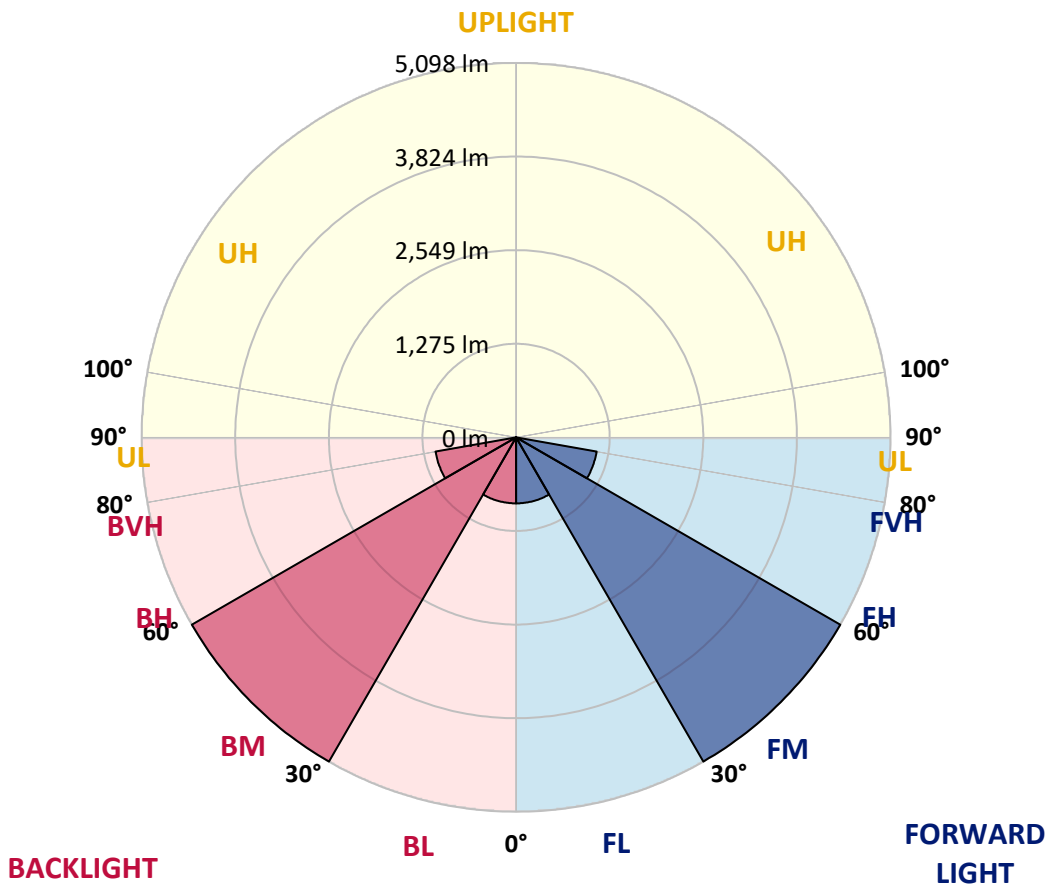
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.1	6.3			
FM (30°-60°)	5098.1	35.8			
FH (60°-80°)	1114.5	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	899.1	6.3	B2/1000		
BM (30°-60°)	5098.1	35.8	B4/8500		
BH (60°-80°)	1114.5	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.3	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2017.2	2017.2	2017.2	2017.2	2017.2	2017.2	2017.2	2017.2	2017.2	2017.2	2017.2
2.5°	1997.8	2001.7	2005.5	2007.5	2009.4	2015.2	2017.2	2011.3	2011.3	1999.7	2013.3
5°	1988.1	1992.0	1995.8	1993.9	1993.9	1993.9	1992.0	1984.2	1982.3	1970.6	1984.2
7.5°	1970.6	1974.5	1974.5	1968.7	1964.8	1964.8	1962.9	1953.2	1951.3	1939.6	1953.2
10°	1957.1	1959.0	1957.1	1945.5	1937.7	1937.7	1935.8	1931.9	1933.8	1926.1	1937.7
12.5°	1964.8	1966.8	1959.0	1943.5	1933.8	1931.9	1926.1	1920.3	1926.1	1924.1	1935.8
15°	1990.0	1992.0	1978.4	1959.0	1951.3	1951.3	1935.8	1920.3	1928.0	1930.0	1943.5
17.5°	2021.0	2021.0	2003.6	1986.1	1988.1	1988.1	1962.9	1935.8	1937.7	1945.5	1959.0
20°	2057.8	2057.8	2040.4	2036.5	2050.1	2052.0	2021.0	1978.4	1968.7	1974.5	1990.0
22.5°	2123.7	2123.7	2110.2	2119.9	2150.9	2160.5	2114.0	2054.0	2030.7	2034.6	2050.1
25°	2226.4	2226.4	2222.5	2245.8	2290.4	2311.7	2249.7	2170.2	2131.5	2125.7	2143.1
27.5°	2398.9	2400.8	2395.0	2429.9	2486.1	2511.3	2426.0	2321.4	2274.9	2265.2	2282.6
30°	2621.7	2621.7	2623.7	2672.1	2745.7	2778.7	2666.3	2544.2	2490.0	2458.9	2482.2
32.5°	2869.7	2873.6	2893.0	2974.4	3104.2	3172.0	3007.3	2836.8	2749.6	2716.7	2741.9
35°	3278.6	3241.8	3218.5	3278.6	3466.6	3555.7	3344.5	3144.9	3079.0	3075.1	3139.1
37.5°	3683.6	3662.3	3613.8	3675.8	3844.4	3885.1	3652.6	3485.9	3439.4	3464.6	3528.6
40°	4005.2	3966.5	3902.5	3960.7	4181.6	4222.3	3935.5	3770.8	3753.3	3809.5	3896.7
42.5°	4259.1	4204.8	4119.6	4133.1	4311.4	4340.5	4086.6	3962.6	3974.2	4044.0	4142.8
45°	4373.4	4330.8	4255.2	4249.4	4361.8	4363.7	4164.1	4100.2	4131.2	4185.4	4263.0
47.5°	4421.8	4402.5	4359.8	4350.2	4414.1	4398.6	4274.6	4247.5	4276.5	4292.0	4336.6
50°	4542.0	4542.0	4547.8	4555.5	4621.4	4605.9	4518.7	4487.7	4450.9	4396.7	4410.2
52.5°	4879.1	4892.7	4948.9	5010.9	5131.0	5181.4	5040.0	4859.8	4683.4	4565.2	4565.2
55°	5487.6	5501.1	5567.0	5671.7	5892.6	6012.7	5683.3	5286.1	5043.9	4883.0	4904.3
57.5°	5822.8	5838.3	5973.9	6256.9	6685.1	6888.5	6181.3	5592.2	5253.1	5069.0	5084.5
58°	5801.5	5811.2	5964.3	6295.6	6772.3	6991.2	6216.2	5582.5	5226.0	5038.0	5057.4
60°	5154.3	5140.7	5384.9	5857.7	6530.1	6832.4	5869.3	5096.2	4681.5	4489.7	4499.4
62.5°	3369.7	3377.4	3588.6	4082.7	4605.9	4890.8	4100.2	3524.7	3191.4	3075.1	3046.1
65°	1406.8	1381.6	1511.4	1786.6	2100.5	2259.4	1941.6	1643.2	1437.8	1360.3	1381.6
67.5°	362.4	352.7	360.4	451.5	552.2	653.0	548.4	418.5	364.3	368.2	368.2
70°	205.4	193.8	157.0	145.3	141.5	141.5	141.5	141.5	162.8	191.8	197.6
72.5°	155.0	145.3	114.3	98.8	87.2	81.4	85.3	98.8	118.2	143.4	147.3
75°	77.5	77.5	69.8	65.9	58.1	54.3	56.2	62.0	71.7	81.4	79.4
77.5°	15.5	17.4	19.4	23.3	19.4	19.4	19.4	23.3	23.3	25.2	23.3
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	0.0	1.9	1.9	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)