

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: P640439

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640439
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-SA5D-830-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE 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: 12558.6 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

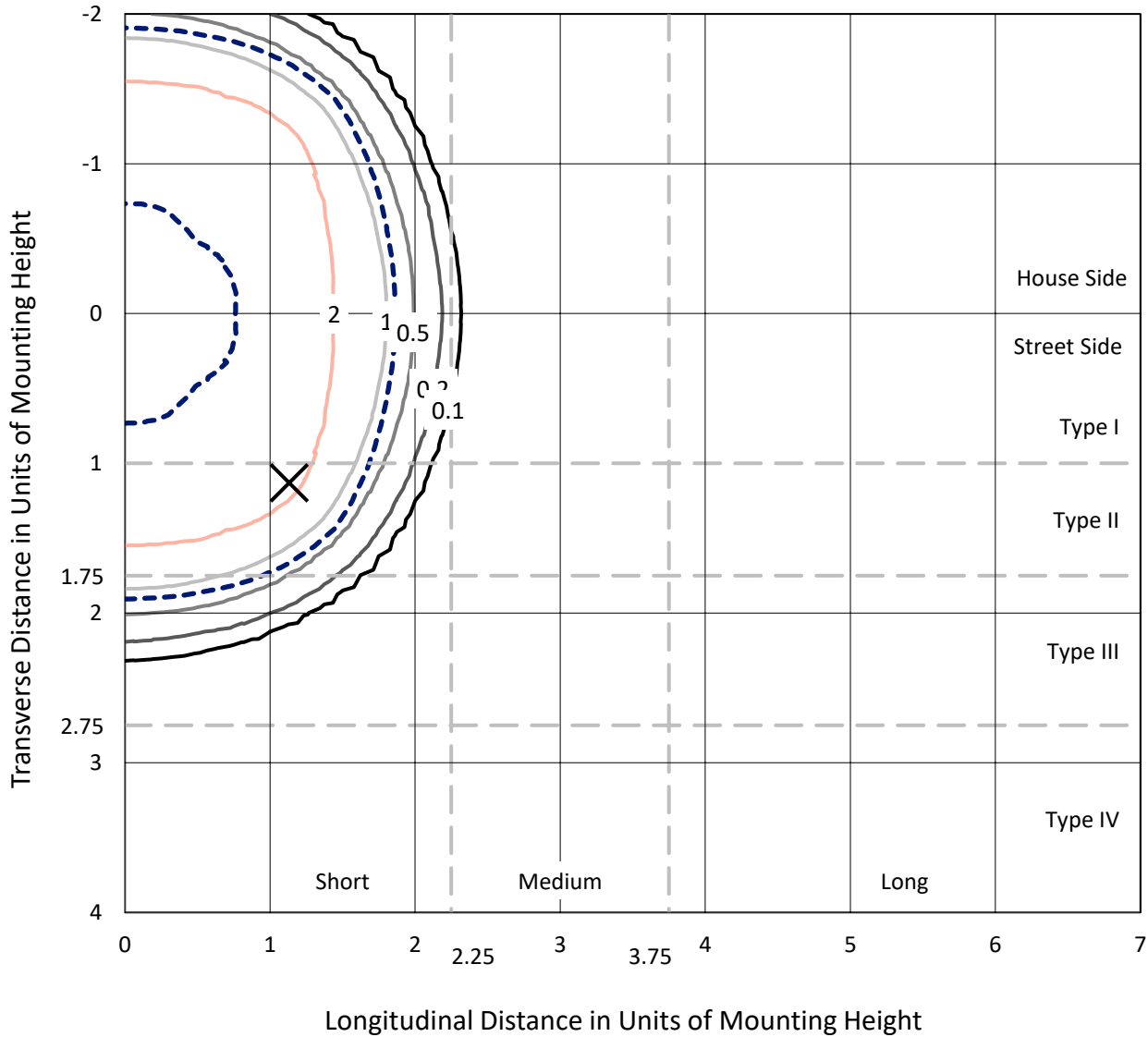
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

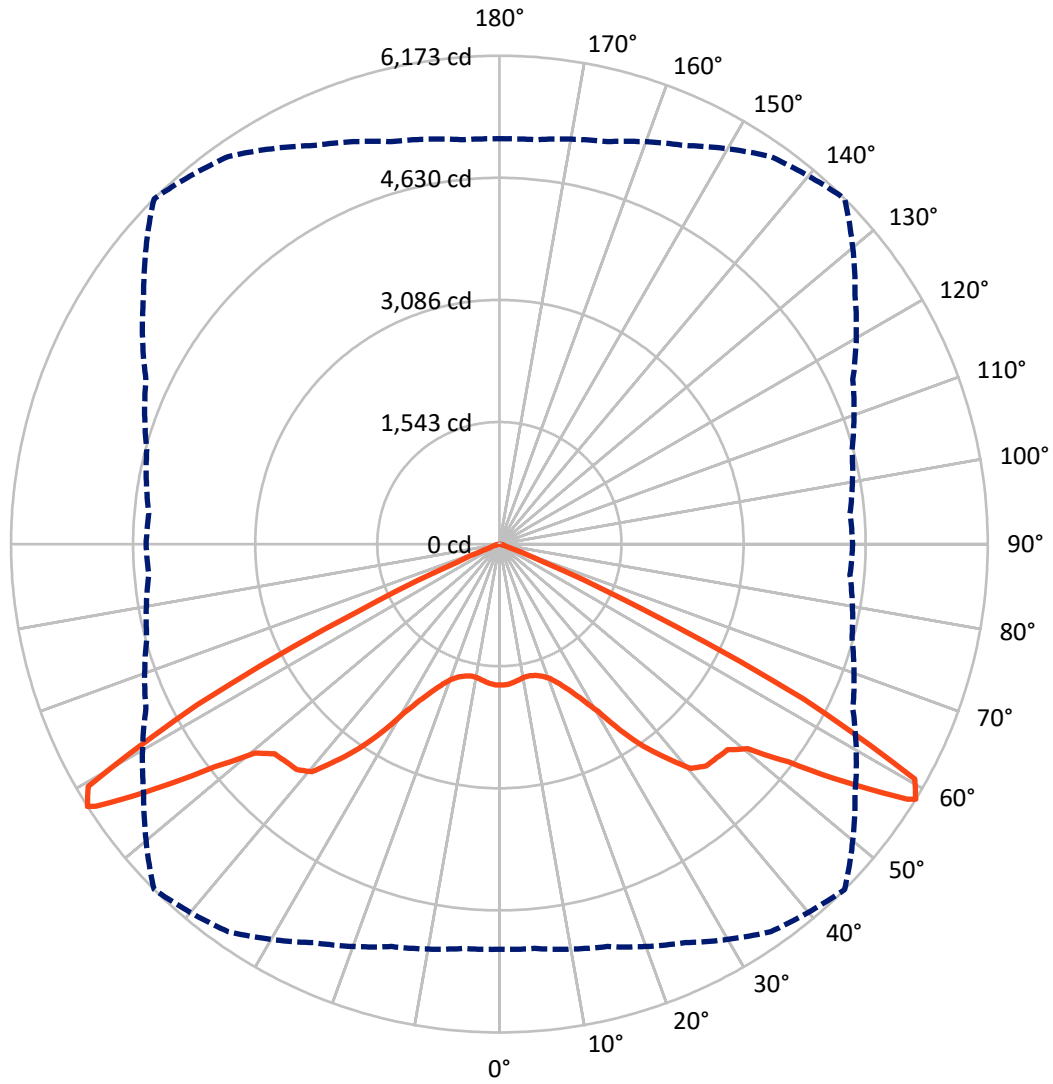
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	6279.3	0.0	6279.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6279.3	0.0	6279.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	12558.6	0.0	12558.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	1.3
10°-20°	491.7	3.9
20°-30°	929.9	7.4
30°-40°	1834.0	14.6
40°-50°	2902.2	23.1
50°-60°	4266.1	34.0
60°-70°	1904.2	15.2
70°-80°	63.8	0.5
80°-90°	0.5	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°	12558.6	100.0
0°-180°	12558.6	100.0

Coefficient of Utilization



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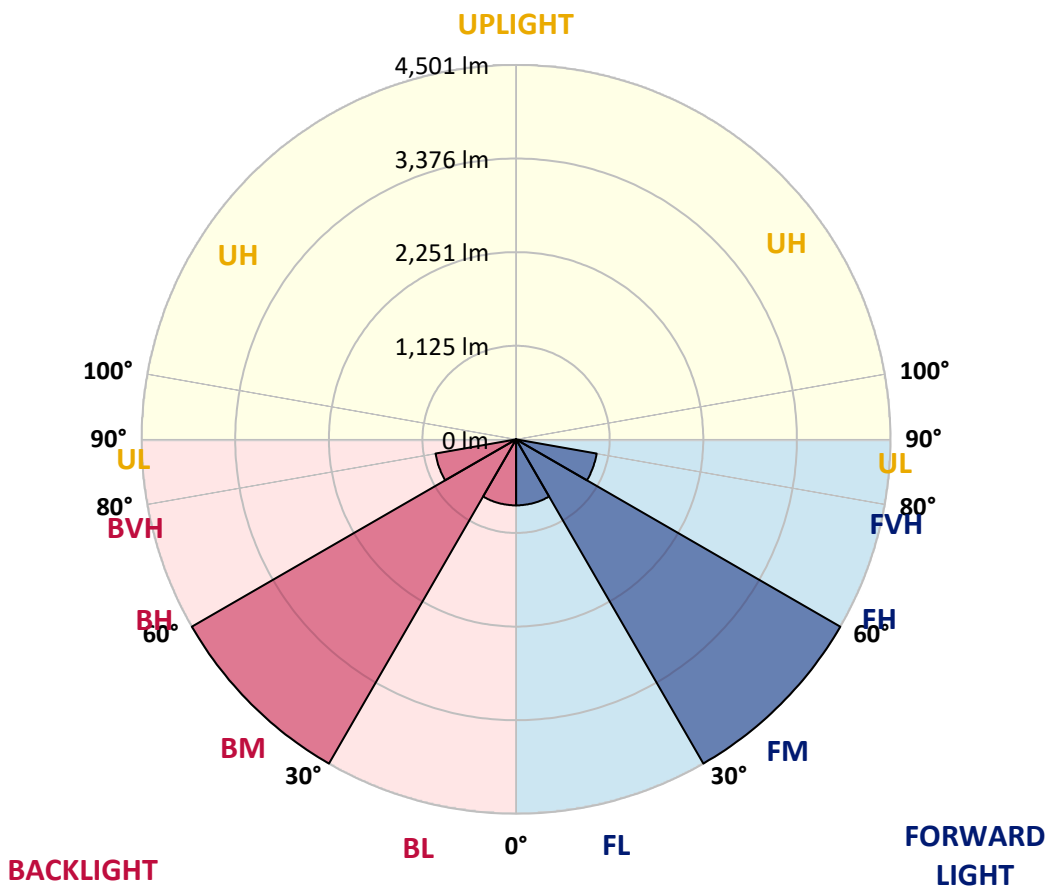
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.9	6.3			
FM (30°-60°)	4501.2	35.8			
FH (60°-80°)	984.0	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	793.9	6.3	B2/1000		
BM (30°-60°)	4501.2	35.8	B3/5000		
BH (60°-80°)	984.0	7.8	B2/1000		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: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0
2.5°	1763.9	1767.3	1770.7	1772.4	1774.1	1779.3	1781.0	1775.8	1775.8	1765.6	1777.6
5°	1755.3	1758.7	1762.2	1760.4	1760.4	1760.4	1758.7	1751.9	1750.2	1739.9	1751.9
7.5°	1739.9	1743.3	1743.3	1738.2	1734.8	1734.8	1733.1	1724.5	1722.8	1712.5	1724.5
10°	1727.9	1729.7	1727.9	1717.7	1710.8	1710.8	1709.1	1705.7	1707.4	1700.6	1710.8
12.5°	1734.8	1736.5	1729.7	1716.0	1707.4	1705.7	1700.6	1695.4	1700.6	1698.9	1709.1
15°	1757.0	1758.7	1746.8	1729.7	1722.8	1722.8	1709.1	1695.4	1702.3	1704.0	1716.0
17.5°	1784.4	1784.4	1769.0	1753.6	1755.3	1755.3	1733.1	1709.1	1710.8	1717.7	1729.7
20°	1816.9	1816.9	1801.5	1798.1	1810.1	1811.8	1784.4	1746.8	1738.2	1743.3	1757.0
22.5°	1875.1	1875.1	1863.1	1871.7	1899.0	1907.6	1866.5	1813.5	1793.0	1796.4	1810.1
25°	1965.7	1965.7	1962.3	1982.9	2022.2	2041.0	1986.3	1916.1	1881.9	1876.8	1892.2
27.5°	2118.0	2119.7	2114.6	2145.4	2195.0	2217.2	2142.0	2049.6	2008.5	2000.0	2015.4
30°	2314.8	2314.8	2316.5	2359.2	2424.2	2453.3	2354.1	2246.3	2198.4	2171.0	2191.6
32.5°	2533.7	2537.2	2554.3	2626.1	2740.8	2800.6	2655.2	2504.7	2427.7	2398.6	2420.8
35°	2894.7	2862.2	2841.7	2894.7	3060.7	3139.4	2952.9	2776.7	2718.5	2715.1	2771.5
37.5°	3252.3	3233.5	3190.7	3245.4	3394.3	3430.2	3224.9	3077.8	3036.7	3059.0	3115.4
40°	3536.3	3502.1	3445.6	3496.9	3692.0	3727.9	3474.7	3329.3	3313.9	3363.5	3440.5
42.5°	3760.4	3712.5	3637.2	3649.2	3806.6	3832.3	3608.1	3498.7	3508.9	3570.5	3657.8
45°	3861.3	3823.7	3757.0	3751.9	3851.1	3852.8	3676.6	3620.1	3647.5	3695.4	3763.8
47.5°	3904.1	3887.0	3849.4	3840.8	3897.3	3883.6	3774.1	3750.1	3775.8	3789.5	3828.8
50°	4010.2	4010.2	4015.3	4022.2	4080.3	4066.6	3989.7	3962.3	3929.8	3881.9	3893.9
52.5°	4307.9	4319.9	4369.5	4424.2	4530.3	4574.8	4449.9	4290.8	4135.1	4030.7	4030.7
55°	4845.1	4857.1	4915.2	5007.6	5202.6	5308.7	5017.9	4667.2	4453.3	4311.3	4330.1
57.5°	5141.1	5154.7	5274.5	5524.3	5902.4	6082.0	5457.6	4937.5	4638.1	4475.5	4489.2
58°	5122.2	5130.8	5265.9	5558.5	5979.4	6172.7	5488.4	4928.9	4614.1	4448.2	4465.3
60°	4550.8	4538.8	4754.4	5171.8	5765.5	6032.4	5182.1	4499.5	4133.4	3964.0	3972.6
62.5°	2975.1	2982.0	3168.5	3604.7	4066.6	4318.1	3620.1	3112.0	2817.7	2715.1	2689.4
65°	1242.1	1219.8	1334.4	1577.4	1854.5	1994.8	1714.3	1450.8	1269.4	1201.0	1219.8
67.5°	319.9	311.4	318.2	398.6	487.6	576.6	484.2	369.5	321.6	325.1	325.1
70°	181.3	171.1	138.6	128.3	124.9	124.9	124.9	124.9	143.7	169.4	174.5
72.5°	136.9	128.3	100.9	87.3	77.0	71.9	75.3	87.3	104.4	126.6	130.0
75°	68.4	68.4	61.6	58.2	51.3	47.9	49.6	54.7	63.3	71.9	70.1
77.5°	13.7	15.4	17.1	20.5	17.1	17.1	17.1	20.5	20.5	22.2	20.5
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.0	1.7	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
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)