

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209091

Luminaire Tested: UPW-SA2-090-750-U-5NQ

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-750-U-5NQ
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12302 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

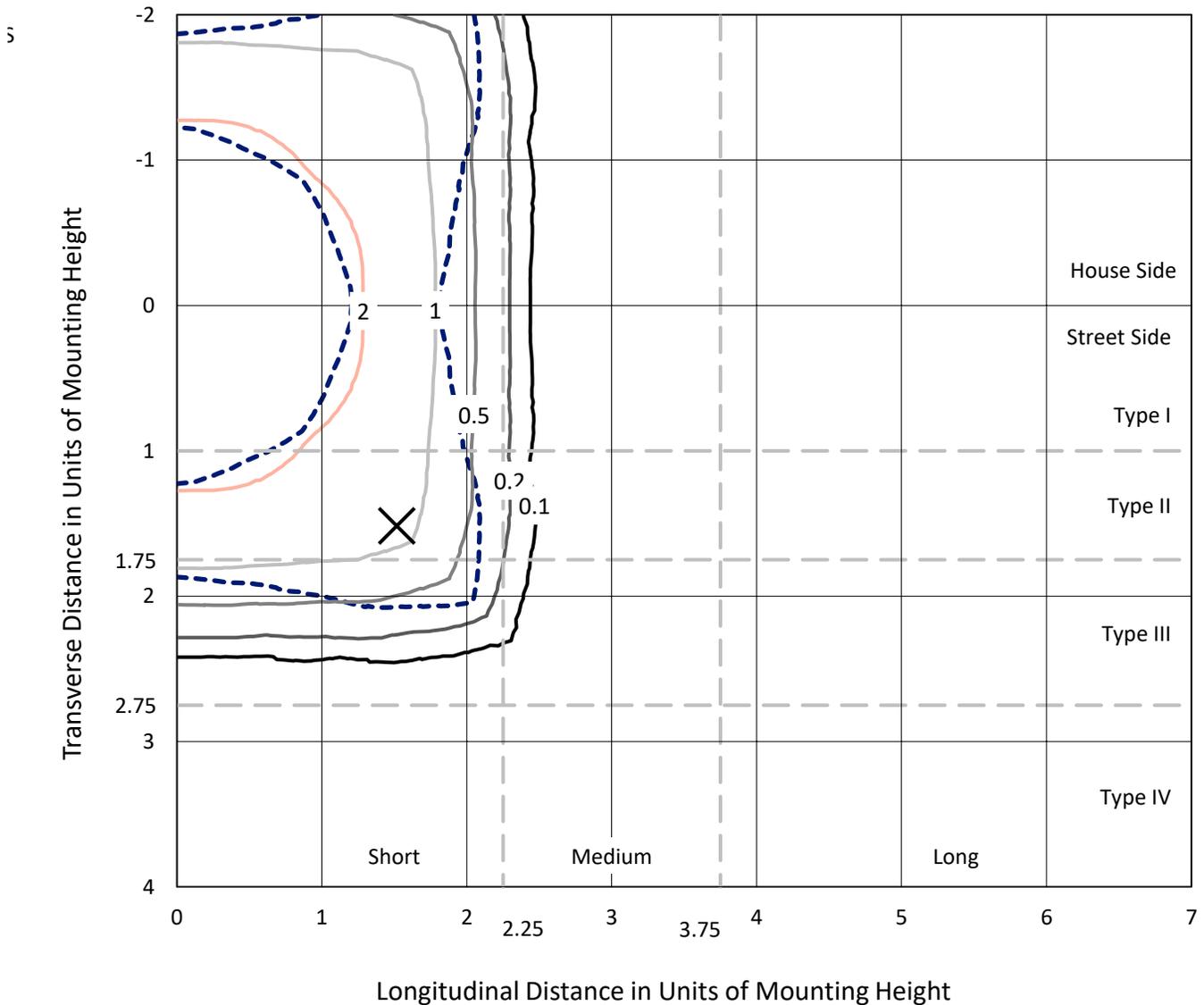
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

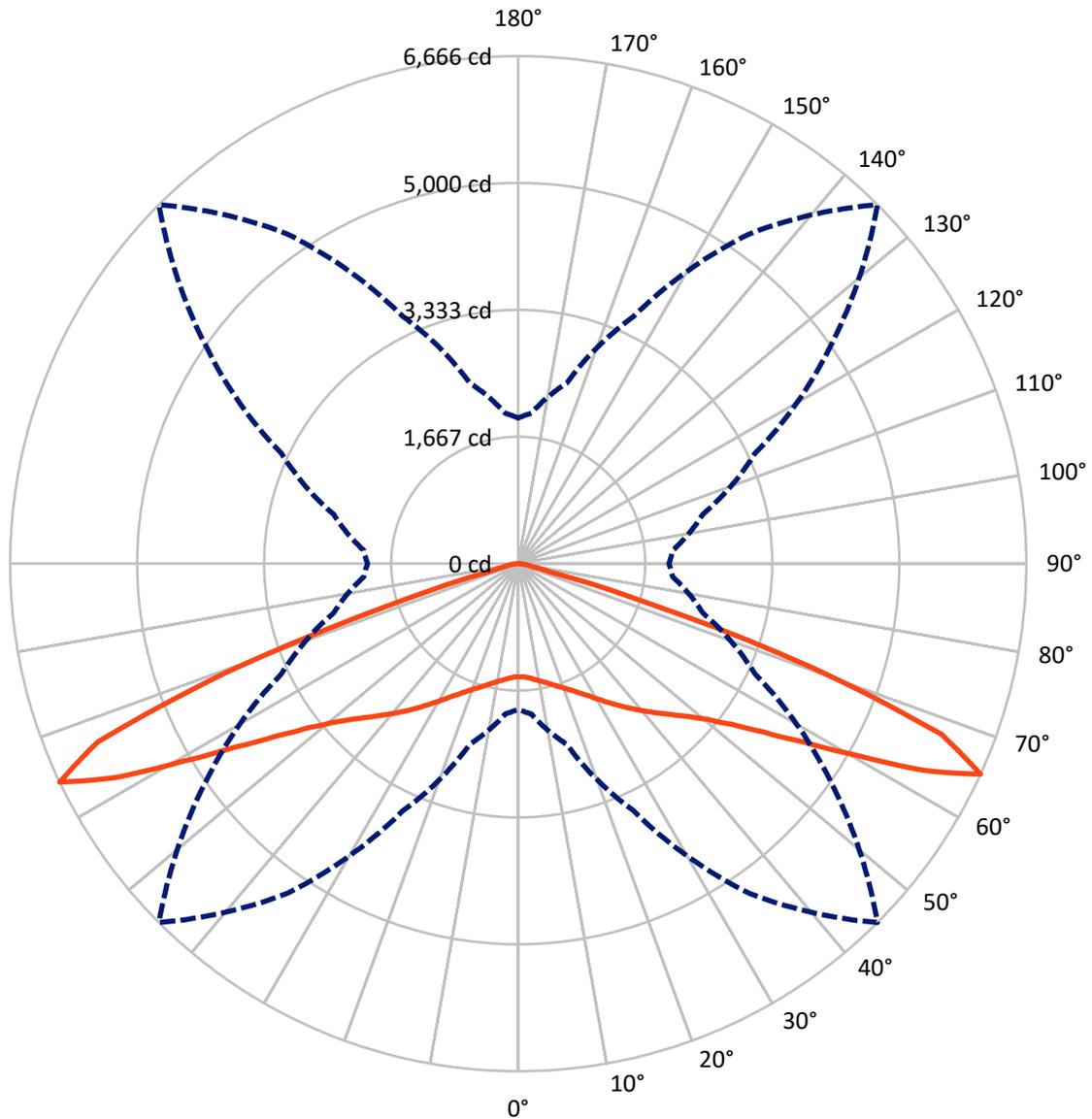
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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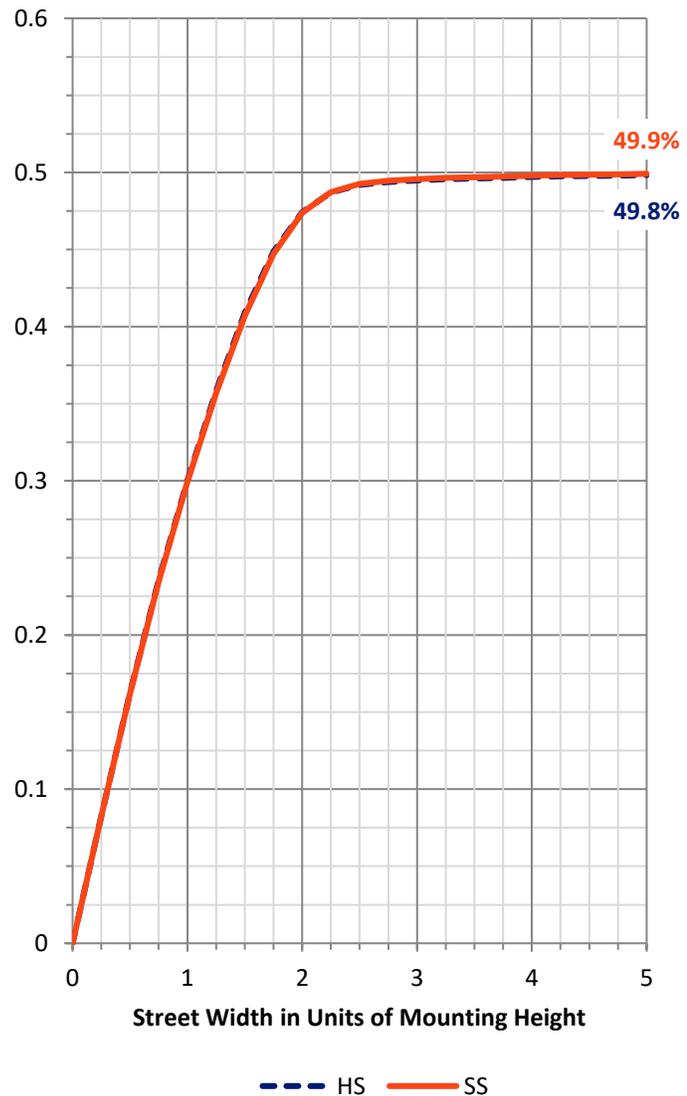
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6151.0	0.0	6151.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6151.0	0.0	6151.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12302.0	0.0	12302.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	1.2
10°-20°	468.5	3.8
20°-30°	879.0	7.1
30°-40°	1453.7	11.8
40°-50°	2251.6	18.3
50°-60°	3453.3	28.1
60°-70°	3222.4	26.2
70°-80°	375.0	3.0
80°-90°	52.7	0.4
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°	12302.0	100.0
0°-180°	12302.0	100.0



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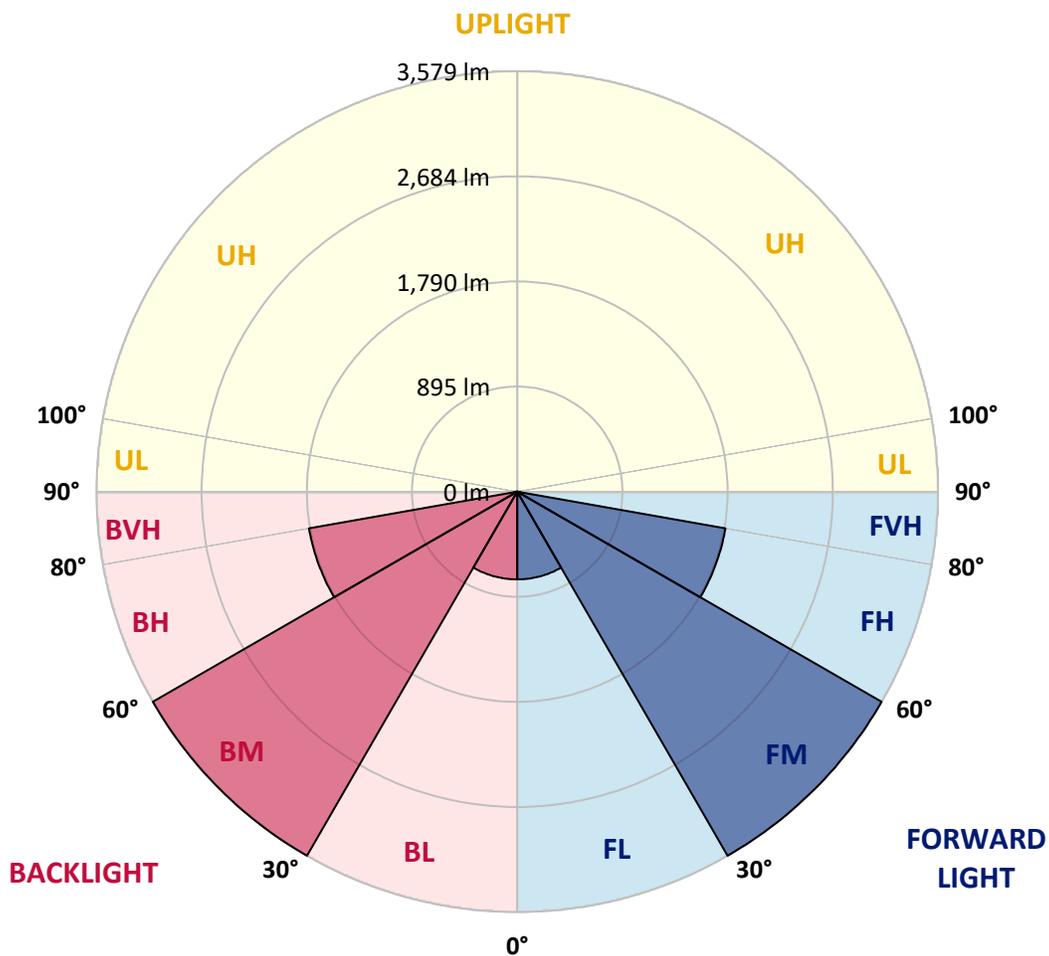
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.6	6.1			
FM	(30°-60°)	3579.3	29.1			
FH	(60°-80°)	1798.7	14.6			G1/1800
FVH	(80°-90°)	26.3	0.2			G1/100
BL	(0°-30°)	746.6	6.1	B2/1000		
BM	(30°-60°)	3579.3	29.1	B3/5000		
BH	(60°-80°)	1798.7	14.6	B3/2500		G1/1800
BVH	(80°-90°)	26.3	0.2			G1/100
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°	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6
2.5°	1490.5	1489.7	1490.5	1490.9	1488.5	1489.7	1489.3	1491.3	1492.2	1491.3	1491.3
5°	1507.7	1506.4	1508.1	1510.1	1506.9	1507.7	1506.4	1508.9	1509.7	1508.1	1509.3
7.5°	1531.4	1531.8	1533.4	1537.1	1535.0	1536.7	1534.2	1534.6	1534.2	1531.8	1532.2
10°	1557.1	1557.5	1560.4	1565.3	1566.1	1566.1	1564.4	1563.2	1561.6	1559.9	1560.4
12.5°	1588.1	1590.2	1592.2	1598.3	1598.3	1601.6	1600.8	1597.5	1594.7	1592.2	1592.2
15°	1630.2	1629.8	1632.2	1638.3	1641.2	1646.5	1646.5	1642.0	1638.3	1635.9	1635.1
17.5°	1674.3	1675.5	1677.1	1684.5	1689.0	1695.1	1695.9	1692.3	1689.8	1686.5	1684.5
20°	1725.7	1727.8	1734.3	1737.2	1741.3	1747.0	1749.0	1748.2	1745.7	1744.1	1744.5
22.5°	1785.8	1791.1	1795.2	1799.2	1804.1	1808.2	1810.3	1813.1	1810.7	1809.5	1808.6
25°	1858.5	1862.1	1870.3	1877.7	1880.9	1882.1	1884.6	1888.7	1888.3	1885.4	1885.4
27.5°	1940.9	1947.9	1958.1	1968.7	1968.7	1964.6	1972.8	1979.7	1977.3	1973.6	1968.7
30°	2041.0	2047.5	2059.4	2074.1	2066.7	2063.9	2074.9	2087.5	2083.9	2077.7	2076.9
32.5°	2148.8	2154.9	2170.4	2186.4	2177.0	2172.9	2184.7	2203.1	2196.6	2184.3	2177.0
35°	2265.6	2271.7	2293.8	2313.0	2297.0	2290.1	2299.9	2319.9	2308.5	2285.6	2279.9
37.5°	2392.6	2395.9	2424.4	2444.0	2433.0	2414.6	2426.9	2441.6	2431.8	2404.0	2393.0
40°	2524.5	2536.3	2569.4	2592.3	2573.1	2544.1	2564.5	2584.9	2570.2	2534.7	2515.9
42.5°	2678.4	2687.4	2731.5	2752.0	2720.9	2680.1	2707.9	2735.6	2720.9	2686.6	2670.3
45°	2838.5	2852.4	2905.1	2925.5	2880.6	2828.7	2862.6	2911.2	2910.0	2860.6	2843.4
47.5°	3012.9	3026.8	3089.7	3116.6	3068.0	2998.6	3046.4	3115.0	3110.1	3055.8	3041.9
50°	3214.2	3228.9	3307.3	3341.2	3295.9	3215.0	3286.9	3347.3	3338.4	3271.4	3272.6
52.5°	3467.0	3466.2	3563.8	3622.6	3576.0	3504.6	3570.7	3629.5	3592.4	3499.7	3496.8
55°	3688.3	3701.8	3822.7	3934.2	3931.3	3903.9	3930.5	3932.9	3826.8	3703.4	3688.3
57.5°	3833.7	3859.4	4029.7	4231.5	4382.5	4418.9	4367.4	4211.4	3962.7	3765.5	3741.4
60°	3744.3	3783.5	4051.0	4462.2	4907.3	5120.9	4830.5	4346.6	3857.0	3582.2	3549.5
62.5°	3140.7	3206.9	3598.5	4350.7	5358.9	5983.3	5166.2	4129.8	3436.4	3057.8	3001.9
65°	1912.8	1982.6	2454.7	3580.9	5285.8	6666.1	5013.1	3427.8	2508.2	2037.3	1976.9
67.5°	637.5	657.9	936.0	1979.3	4154.3	5989.5	4161.2	2052.0	1091.6	723.6	702.4
70°	249.5	251.6	296.9	573.7	1961.8	4113.8	2164.7	584.0	310.4	245.4	250.7
72.5°	183.4	184.2	196.8	239.7	511.3	1812.3	529.6	240.9	191.5	171.9	171.9
75°	147.4	147.4	156.4	174.8	229.1	415.7	232.4	172.7	149.9	137.2	135.6
77.5°	116.4	118.8	125.8	137.6	155.2	200.1	160.9	136.8	120.9	109.0	106.6
80°	86.6	89.0	100.5	106.2	111.5	138.8	118.8	107.0	95.6	81.7	79.2
82.5°	56.8	59.2	73.5	76.8	75.5	90.7	80.0	78.8	70.2	52.7	50.2
85°	37.2	38.0	49.0	51.0	47.0	41.2	51.0	53.9	49.0	34.3	33.1
87.5°	17.6	17.6	24.9	23.3	21.2	17.2	23.3	27.4	27.8	16.7	16.3
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)