

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: P1209064

Luminaire Tested: UPW-SA2-090-740-U-5NQ

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209064
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-SA2-090-740-U-5NQ
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 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: 12303 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

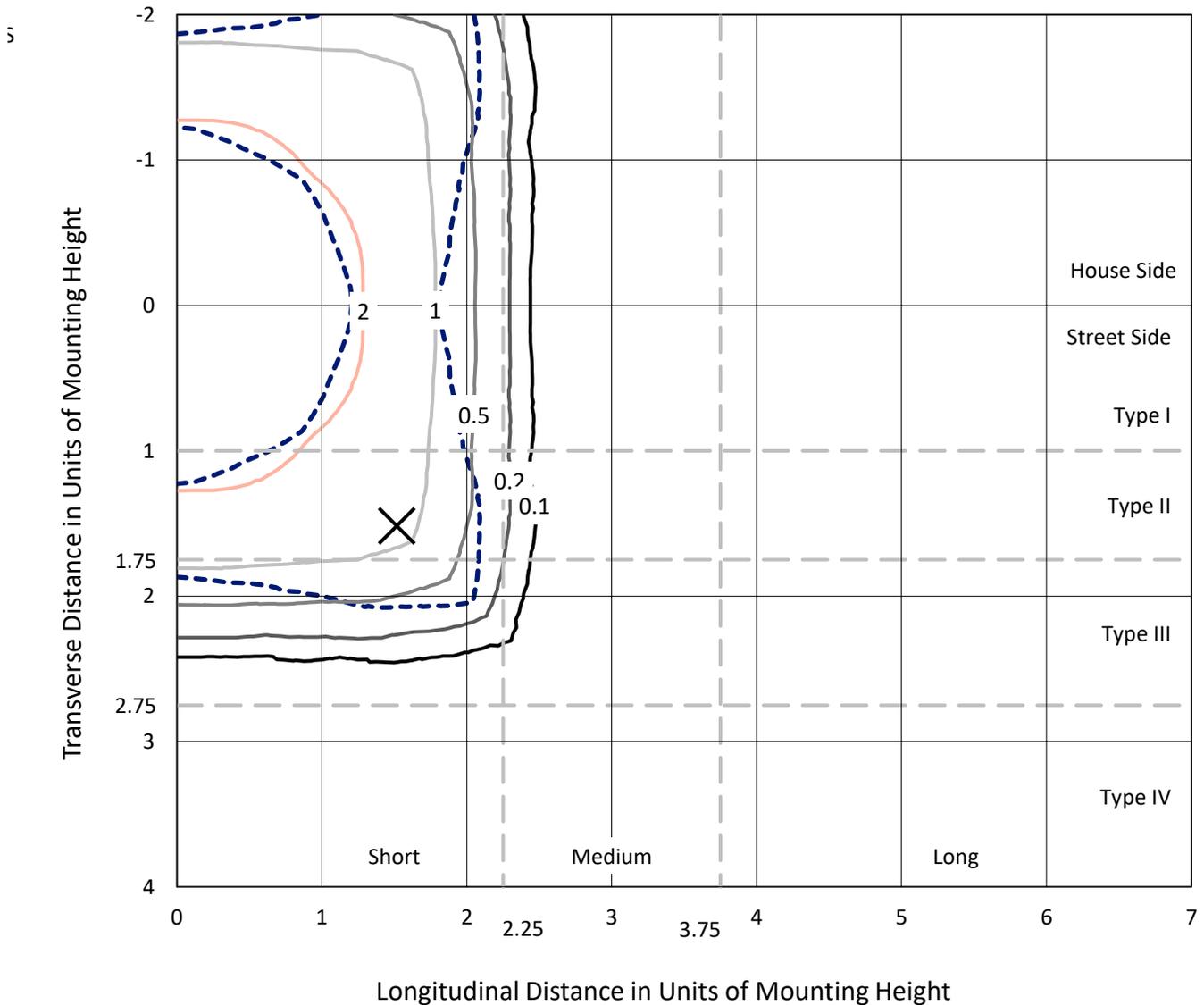
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

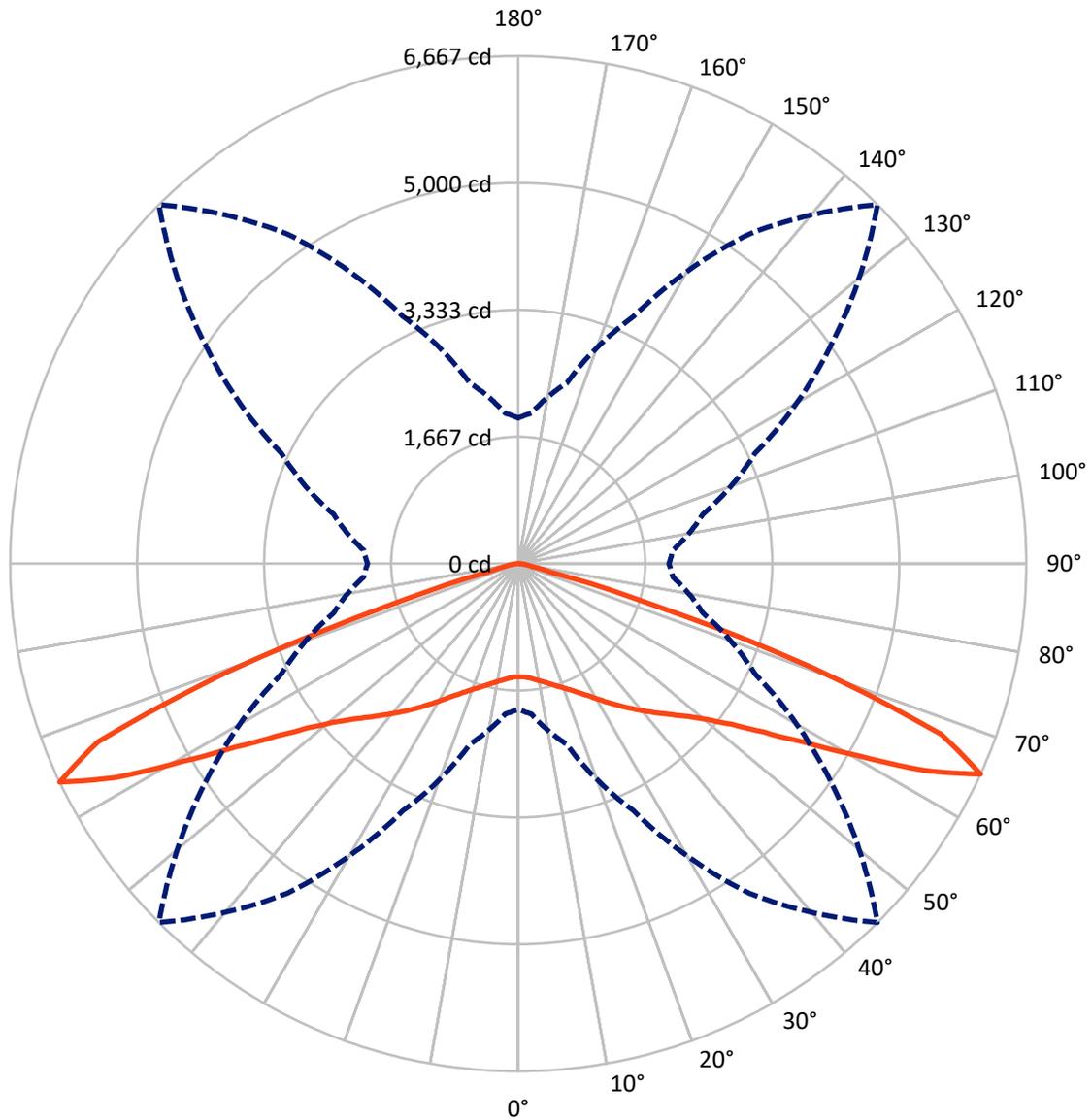
× Max cd
 - - - 1/2 Max cd



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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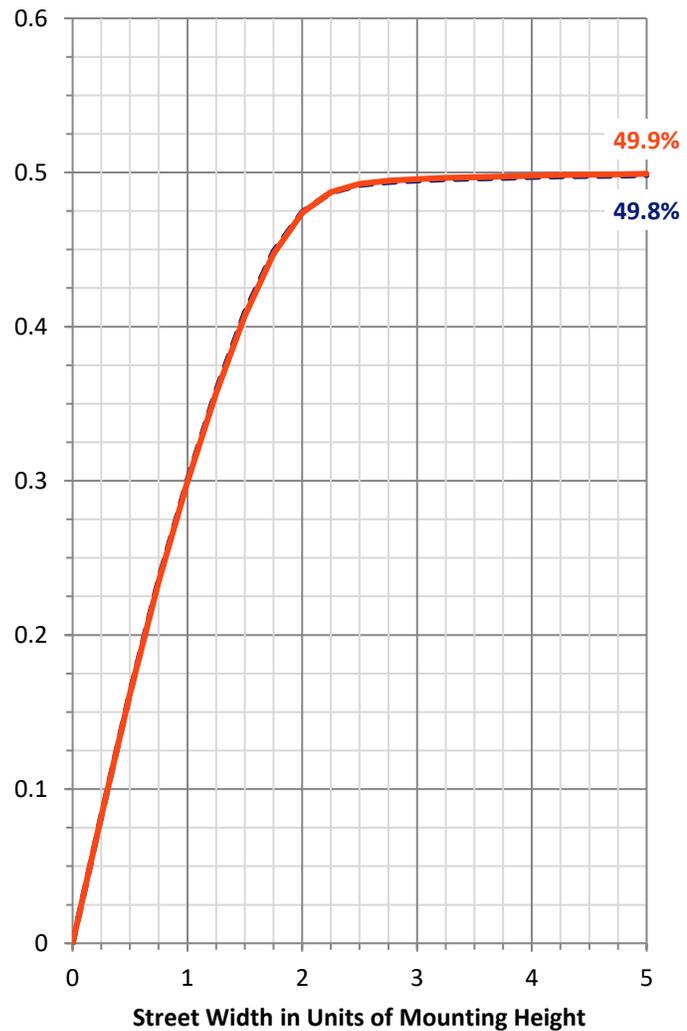
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6151.5	0.0	6151.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6151.5	0.0	6151.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12303.0	0.0	12303.0
	% 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°	879.1	7.1
30°-40°	1453.8	11.8
40°-50°	2251.8	18.3
50°-60°	3453.6	28.1
60°-70°	3222.6	26.2
70°-80°	375.1	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°	12303.0	100.0
0°-180°	12303.0	100.0



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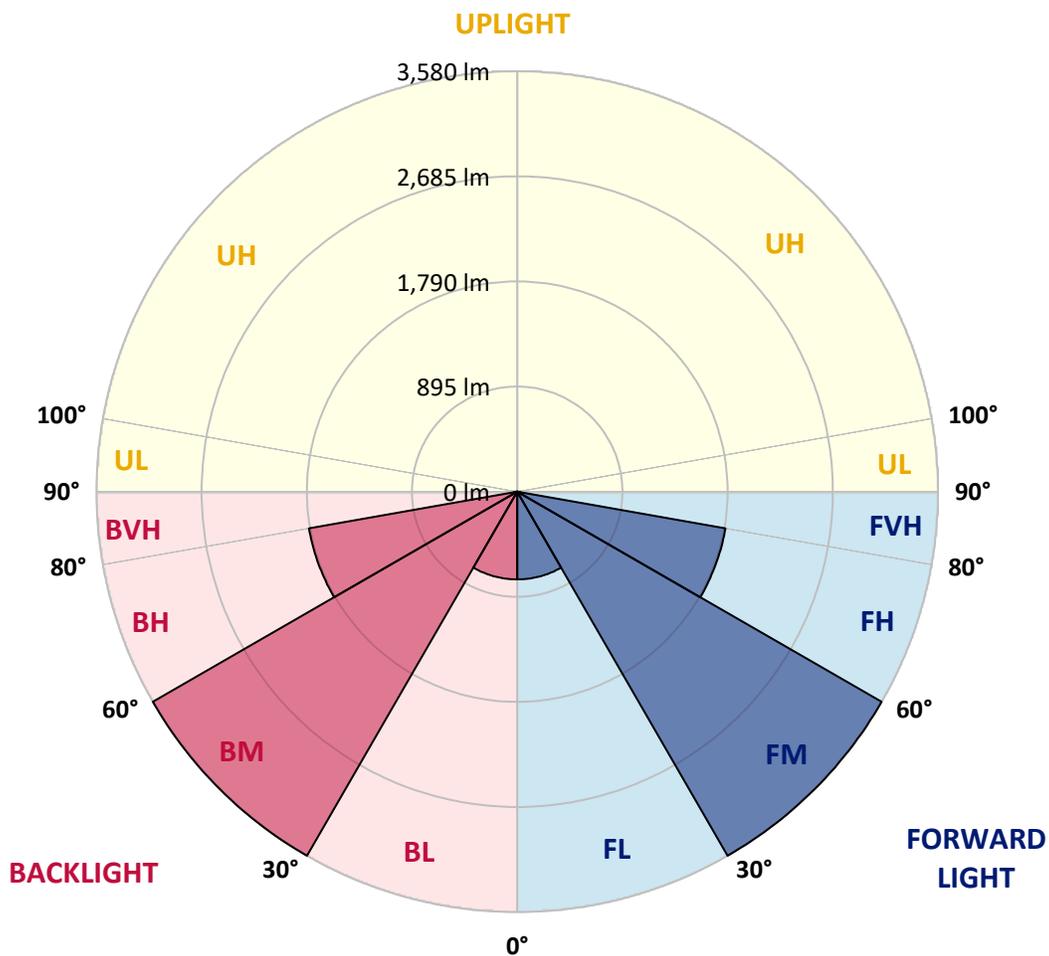
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.7	6.1			
FM	(30°-60°)	3579.6	29.1			
FH	(60°-80°)	1798.8	14.6			G1/1800
FVH	(80°-90°)	26.4	0.2			G1/100
BL	(0°-30°)	746.7	6.1	B2/1000		
BM	(30°-60°)	3579.6	29.1	B3/5000		
BH	(60°-80°)	1798.8	14.6	B3/2500		G1/1800
BVH	(80°-90°)	26.4	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°	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7
2.5°	1490.6	1489.8	1490.6	1491.1	1488.6	1489.8	1489.4	1491.5	1492.3	1491.5	1491.5
5°	1507.8	1506.6	1508.2	1510.2	1507.0	1507.8	1506.6	1509.0	1509.8	1508.2	1509.4
7.5°	1531.5	1531.9	1533.5	1537.2	1535.2	1536.8	1534.3	1534.8	1534.3	1531.9	1532.3
10°	1557.2	1557.6	1560.5	1565.4	1566.2	1566.2	1564.6	1563.3	1561.7	1560.1	1560.5
12.5°	1588.3	1590.3	1592.3	1598.5	1598.5	1601.7	1600.9	1597.6	1594.8	1592.3	1592.3
15°	1630.3	1629.9	1632.4	1638.5	1641.3	1646.7	1646.7	1642.2	1638.5	1636.0	1635.2
17.5°	1674.4	1675.6	1677.3	1684.6	1689.1	1695.2	1696.1	1692.4	1689.9	1686.7	1684.6
20°	1725.9	1727.9	1734.5	1737.3	1741.4	1747.1	1749.2	1748.3	1745.9	1744.3	1744.7
22.5°	1785.9	1791.2	1795.3	1799.4	1804.3	1808.4	1810.4	1813.3	1810.8	1809.6	1808.8
25°	1858.6	1862.3	1870.5	1877.8	1881.1	1882.3	1884.7	1888.8	1888.4	1885.6	1885.6
27.5°	1941.1	1948.0	1958.3	1968.9	1968.9	1964.8	1973.0	1979.9	1977.5	1973.8	1968.9
30°	2041.2	2047.7	2059.5	2074.2	2066.9	2064.0	2075.1	2087.7	2084.0	2077.9	2077.1
32.5°	2149.0	2155.1	2170.6	2186.5	2177.2	2173.1	2184.9	2203.3	2196.8	2184.5	2177.2
35°	2265.8	2271.9	2294.0	2313.2	2297.2	2290.3	2300.1	2320.1	2308.7	2285.8	2280.1
37.5°	2392.8	2396.1	2424.6	2444.2	2433.2	2414.8	2427.1	2441.8	2432.0	2404.2	2393.2
40°	2524.7	2536.5	2569.6	2592.5	2573.3	2544.3	2564.7	2585.1	2570.4	2534.9	2516.1
42.5°	2678.7	2687.7	2731.8	2752.2	2721.1	2680.3	2708.1	2735.8	2721.1	2686.8	2670.5
45°	2838.8	2852.6	2905.3	2925.7	2880.8	2829.0	2862.9	2911.5	2910.2	2860.8	2843.7
47.5°	3013.1	3027.0	3089.9	3116.9	3068.3	2998.8	3046.6	3115.2	3110.3	3056.0	3042.1
50°	3214.5	3229.2	3307.6	3341.5	3296.2	3215.3	3287.2	3347.6	3338.6	3271.7	3272.9
52.5°	3467.3	3466.5	3564.1	3622.9	3576.3	3504.9	3571.0	3629.8	3592.7	3499.9	3497.1
55°	3688.6	3702.1	3823.0	3934.5	3931.6	3904.3	3930.8	3933.3	3827.1	3703.7	3688.6
57.5°	3834.0	3859.7	4030.0	4231.8	4382.9	4419.2	4367.8	4211.8	3963.1	3765.8	3741.7
60°	3744.6	3783.8	4051.3	4462.5	4907.7	5121.3	4830.9	4347.0	3857.3	3582.4	3549.8
62.5°	3141.0	3207.1	3598.8	4351.0	5359.4	5983.8	5166.6	4130.1	3436.6	3058.1	3002.1
65°	1912.9	1982.8	2454.9	3581.2	5286.3	6666.6	5013.5	3428.1	2508.4	2037.5	1977.0
67.5°	637.5	657.9	936.0	1979.5	4154.6	5989.9	4161.6	2052.2	1091.6	723.7	702.4
70°	249.5	251.6	296.9	573.8	1961.9	4114.2	2164.9	584.0	310.4	245.4	250.8
72.5°	183.4	184.2	196.8	239.7	511.3	1812.5	529.7	241.0	191.5	171.9	171.9
75°	147.4	147.4	156.4	174.8	229.1	415.7	232.4	172.8	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	138.9	118.8	107.0	95.6	81.7	79.2
82.5°	56.8	59.2	73.5	76.8	75.6	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)