

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: P1209144

Luminaire Tested: UPW-SA2-090-827-U-5MQ

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-827-U-5MQ
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9210 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

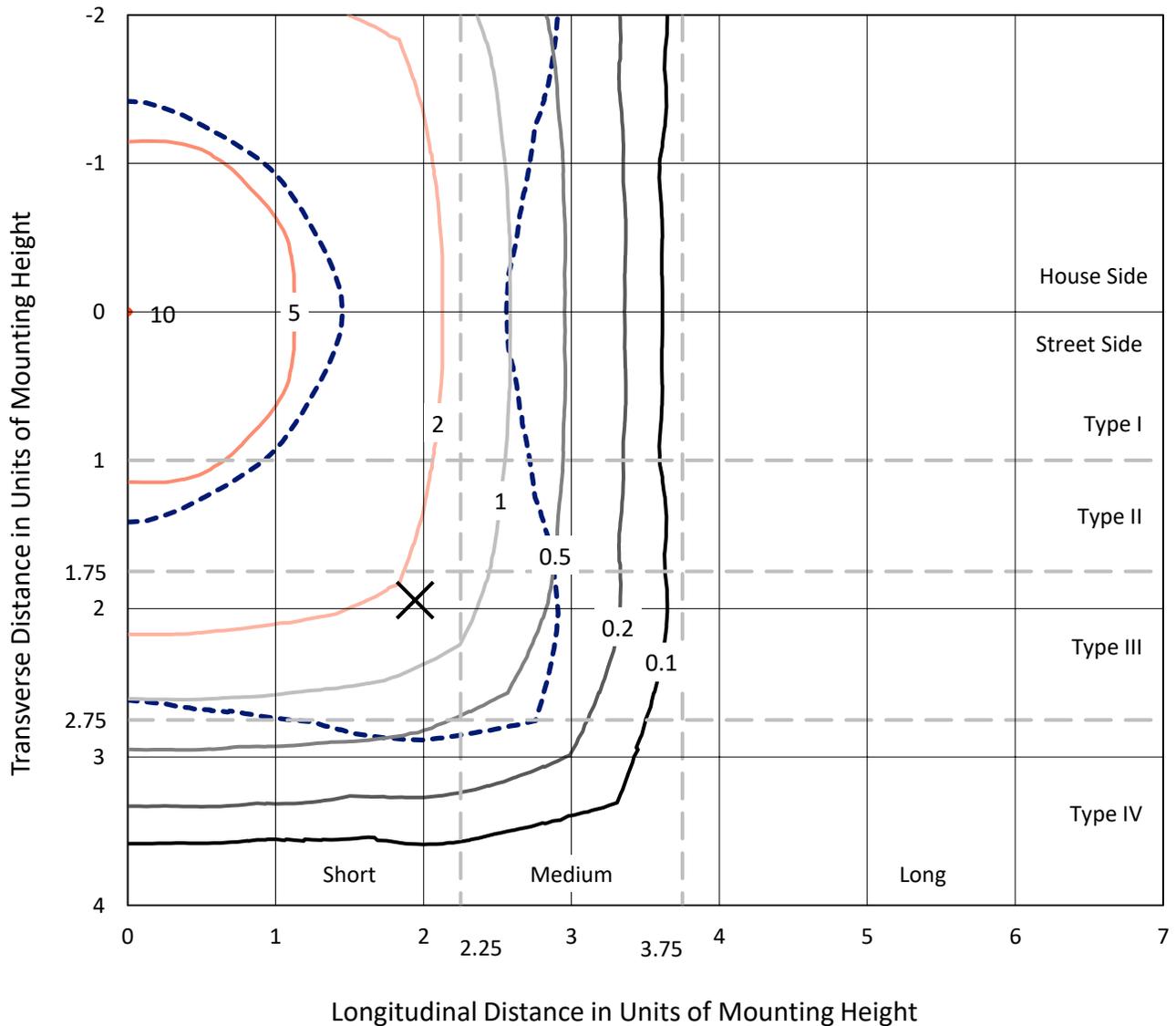
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

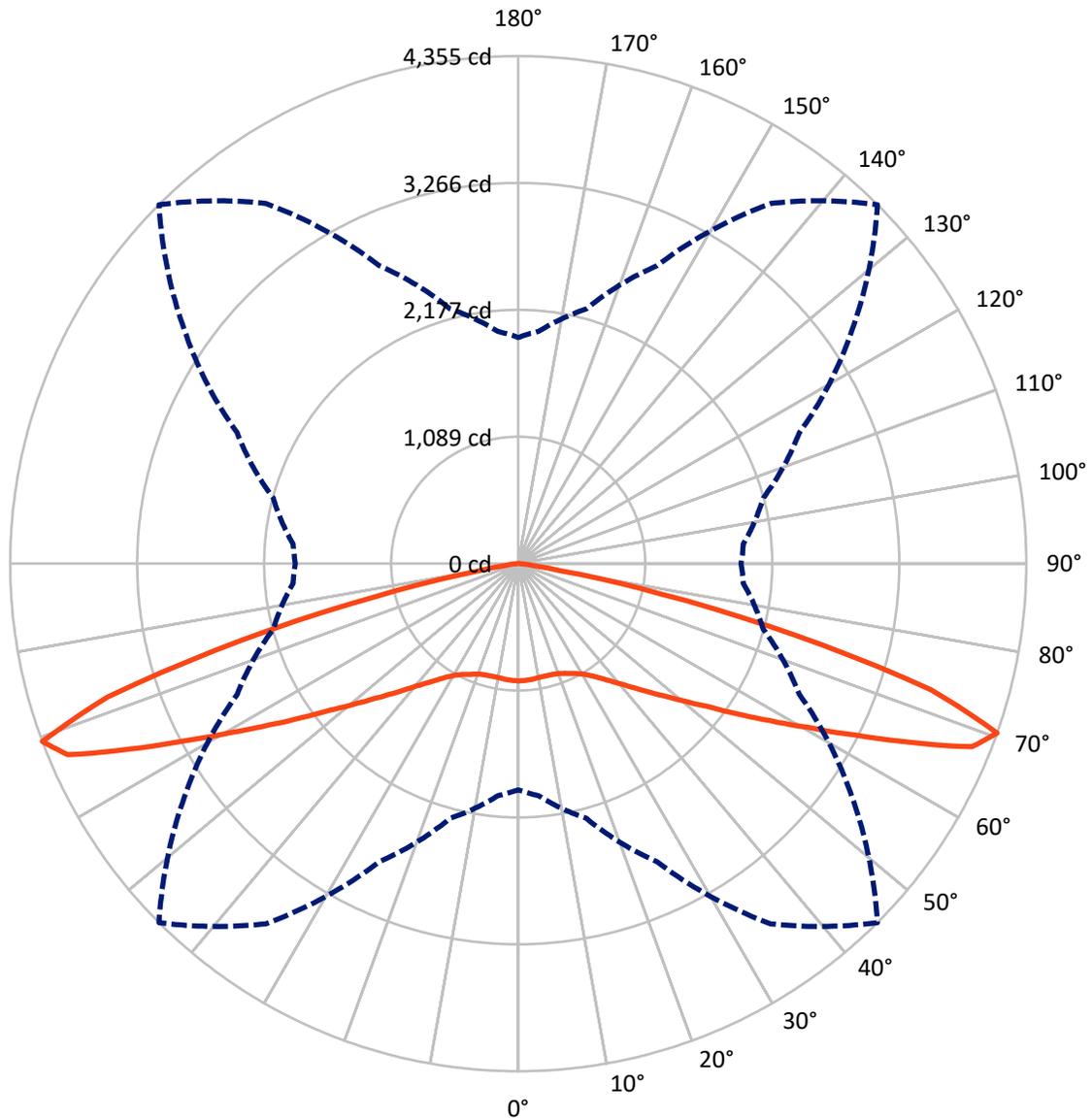
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4605.0	0.0	4605.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4605.0	0.0	4605.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9210.0	0.0	9210.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.0
10°-20°	279.7	3.0
20°-30°	476.1	5.2
30°-40°	755.1	8.2
40°-50°	1228.8	13.3
50°-60°	2026.0	22.0
60°-70°	2974.3	32.3
70°-80°	1315.2	14.3
80°-90°	59.6	0.6
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°	9210.0	100.0
0°-180°	9210.0	100.0



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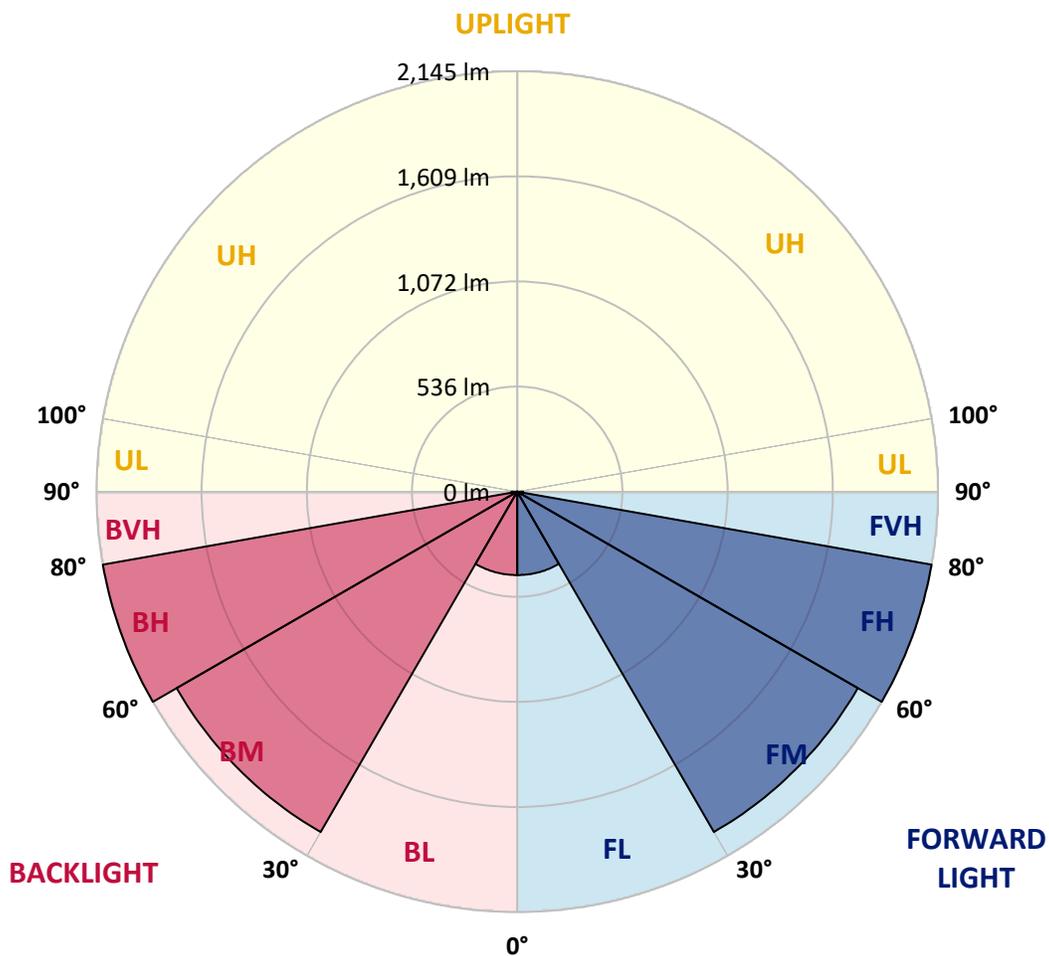
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.5	4.6			
FM	(30°-60°)	2004.9	21.8			
FH	(60°-80°)	2144.7	23.3			G2/5000
FVH	(80°-90°)	29.8	0.3			G1/100
BL	(0°-30°)	425.5	4.6	B1/500		
BM	(30°-60°)	2004.9	21.8	B2/2500		
BH	(60°-80°)	2144.7	23.3	B3/2500		G2/5000
BVH	(80°-90°)	29.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1005.9	1005.9	1005.9	1005.9	1005.9	1005.9	1005.9	1005.9	1005.9	1005.9	1005.9
2.5°	1004.4	1003.4	1005.6	1005.3	1003.4	1003.7	1003.7	1004.7	1004.7	1004.0	1004.0
5°	1000.7	1000.1	1002.5	1002.5	1000.7	1001.3	1001.9	1002.8	1002.5	1001.9	1001.6
7.5°	996.1	995.8	998.3	998.3	997.0	997.6	997.0	997.3	996.7	996.1	995.2
10°	988.5	989.1	991.2	991.9	991.9	992.2	991.5	990.0	989.1	988.2	987.3
12.5°	981.5	981.2	984.2	985.8	988.2	990.9	989.1	984.8	983.0	981.2	980.6
15°	976.9	977.2	980.3	983.0	987.3	993.1	990.9	984.2	980.6	978.4	977.8
17.5°	976.0	976.6	980.6	985.5	990.0	996.4	995.2	988.5	982.4	978.4	977.5
20°	978.1	978.4	984.5	991.5	999.5	1005.6	1002.8	995.5	987.3	981.2	979.7
22.5°	982.1	983.3	990.9	1001.9	1014.1	1022.3	1019.0	1006.5	993.7	986.1	983.9
25°	994.6	994.9	1005.3	1020.2	1034.8	1044.3	1040.3	1022.6	1006.2	997.6	994.9
27.5°	1020.5	1021.4	1031.8	1049.2	1061.7	1067.8	1065.3	1051.0	1037.0	1027.8	1028.7
30°	1058.0	1059.2	1070.8	1090.0	1097.6	1099.1	1098.5	1091.8	1079.0	1066.8	1067.8
32.5°	1103.7	1104.3	1119.9	1137.2	1143.3	1144.6	1143.3	1137.2	1122.0	1105.5	1106.5
35°	1162.5	1164.4	1179.3	1196.1	1201.0	1203.4	1201.3	1193.3	1177.5	1161.3	1160.7
37.5°	1235.1	1235.4	1250.9	1268.3	1274.4	1275.0	1272.6	1267.4	1247.6	1233.0	1232.0
40°	1319.2	1320.4	1338.7	1357.3	1359.8	1357.0	1360.4	1357.3	1336.9	1320.1	1322.9
42.5°	1421.6	1424.4	1446.3	1464.6	1457.6	1456.1	1458.2	1459.1	1442.7	1422.2	1420.4
45°	1540.8	1543.3	1570.7	1585.3	1580.7	1570.7	1575.0	1582.3	1559.4	1534.1	1536.6
47.5°	1676.8	1682.9	1712.1	1725.8	1714.6	1700.8	1709.1	1720.0	1693.2	1661.8	1660.3
50°	1827.9	1835.6	1874.6	1893.8	1882.5	1857.2	1870.9	1878.2	1839.5	1799.0	1795.6
52.5°	1989.2	1996.8	2045.9	2085.5	2078.2	2038.9	2058.1	2050.5	2006.0	1951.4	1947.1
55°	2171.8	2174.8	2227.9	2291.9	2299.2	2270.2	2269.0	2256.5	2190.7	2127.6	2124.5
57.5°	2359.5	2361.7	2430.3	2505.8	2540.3	2540.3	2506.2	2479.6	2392.2	2319.0	2311.4
60°	2562.2	2569.9	2645.8	2748.5	2828.9	2852.7	2792.4	2720.1	2625.0	2535.7	2526.9
62.5°	2742.7	2751.5	2867.7	3020.7	3149.9	3236.5	3089.0	2971.3	2798.2	2654.9	2638.1
65°	2765.5	2789.3	2958.5	3235.6	3524.8	3697.7	3414.8	3124.9	2809.4	2610.4	2593.3
67.5°	2525.7	2565.9	2794.5	3225.8	3823.5	4194.5	3623.0	3037.1	2607.0	2387.0	2368.1
70°	1940.7	1999.3	2262.9	2821.6	3772.0	4354.5	3492.5	2658.9	2173.6	1936.8	1910.2
72.5°	1064.7	1088.8	1325.9	1932.2	3024.0	3700.4	2913.1	1966.0	1441.4	1172.9	1128.4
75°	337.7	346.3	467.0	790.7	1710.6	2451.0	1850.5	965.0	531.3	391.7	387.1
77.5°	150.0	150.9	168.9	230.7	589.2	1241.8	707.8	262.7	181.1	158.2	163.4
80°	94.8	94.8	104.6	114.3	160.3	360.6	191.4	125.0	106.7	99.1	101.2
82.5°	45.4	50.3	68.0	73.2	88.1	121.3	98.1	81.7	71.3	53.0	49.4
85°	29.9	25.0	43.0	48.5	51.2	58.2	57.0	54.0	46.6	26.5	29.6
87.5°	13.4	12.8	22.3	20.4	19.2	14.6	21.9	27.1	26.2	13.1	13.1
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)