

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: P1209011

Luminaire Tested: UPW-SA2-090-730-U-5WQ

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-730-U-5WQ
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11439 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

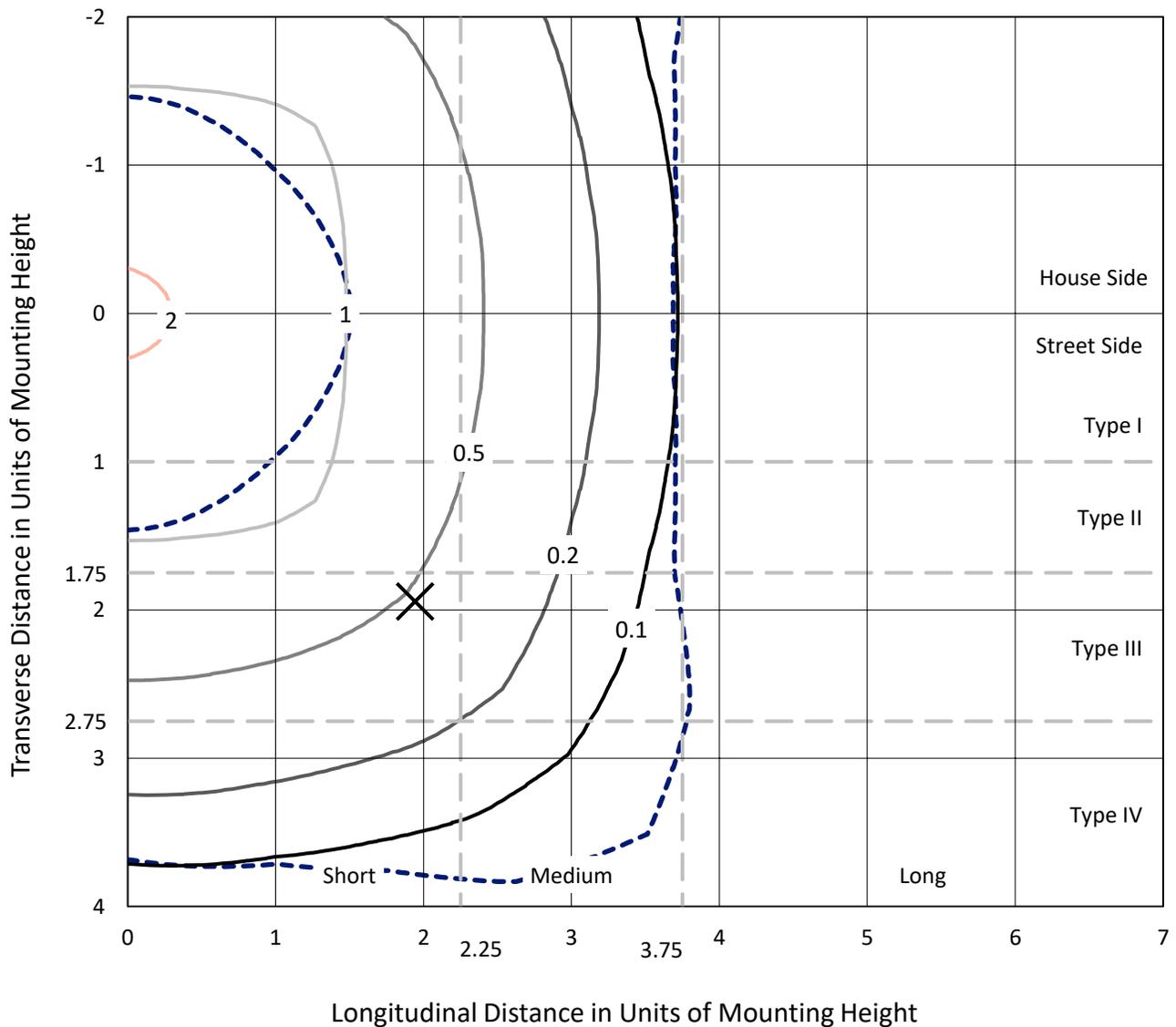
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

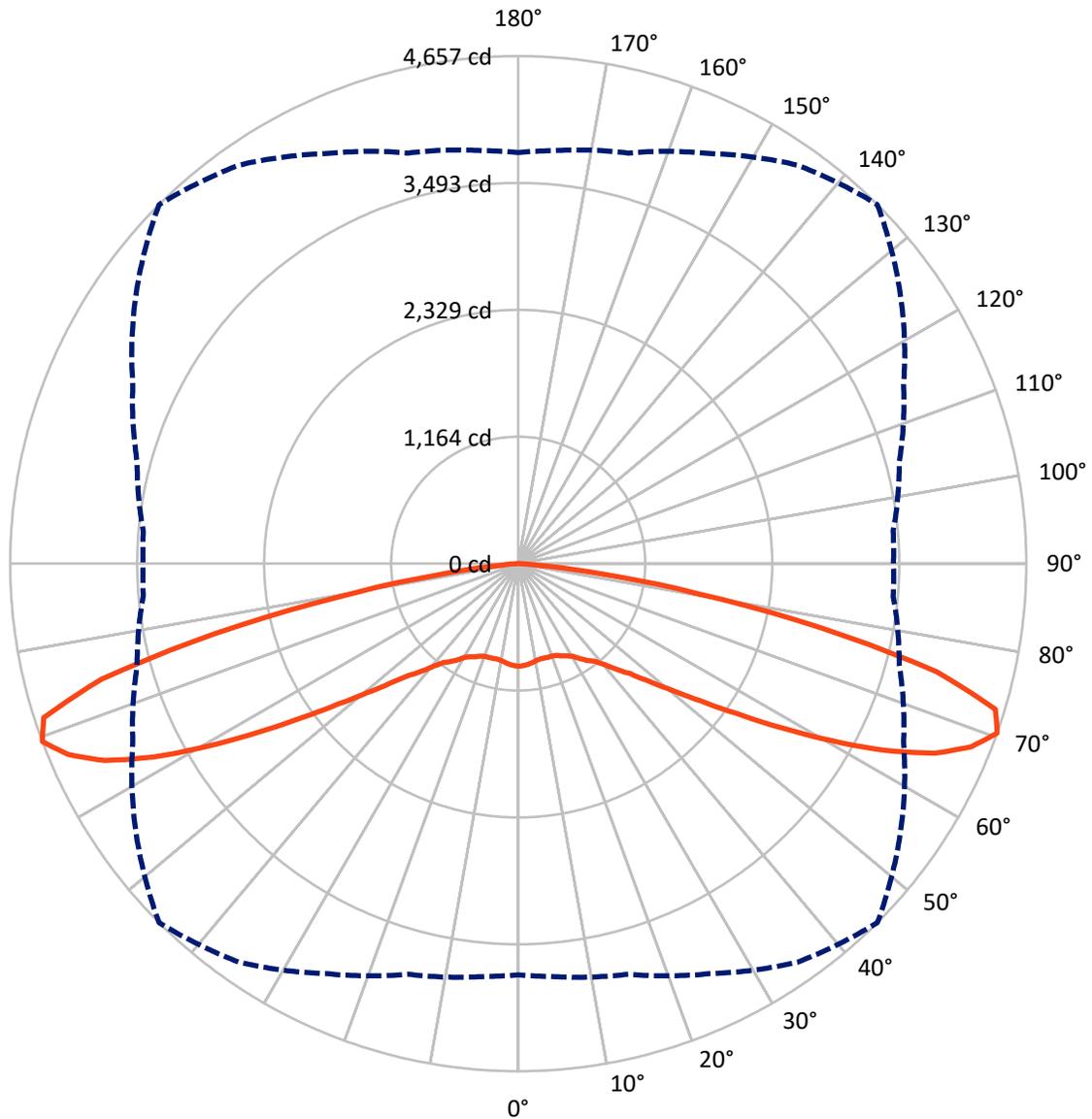
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 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	5719.5	0.0	5719.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5719.5	0.0	5719.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11439.0	0.0	11439.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	0.8
10°-20°	256.7	2.2
20°-30°	437.6	3.8
30°-40°	683.8	6.0
40°-50°	1158.8	10.1
50°-60°	2113.2	18.5
60°-70°	3638.0	31.8
70°-80°	2851.6	24.9
80°-90°	211.4	1.8
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°	11439.0	100.0
0°-180°	11439.0	100.0



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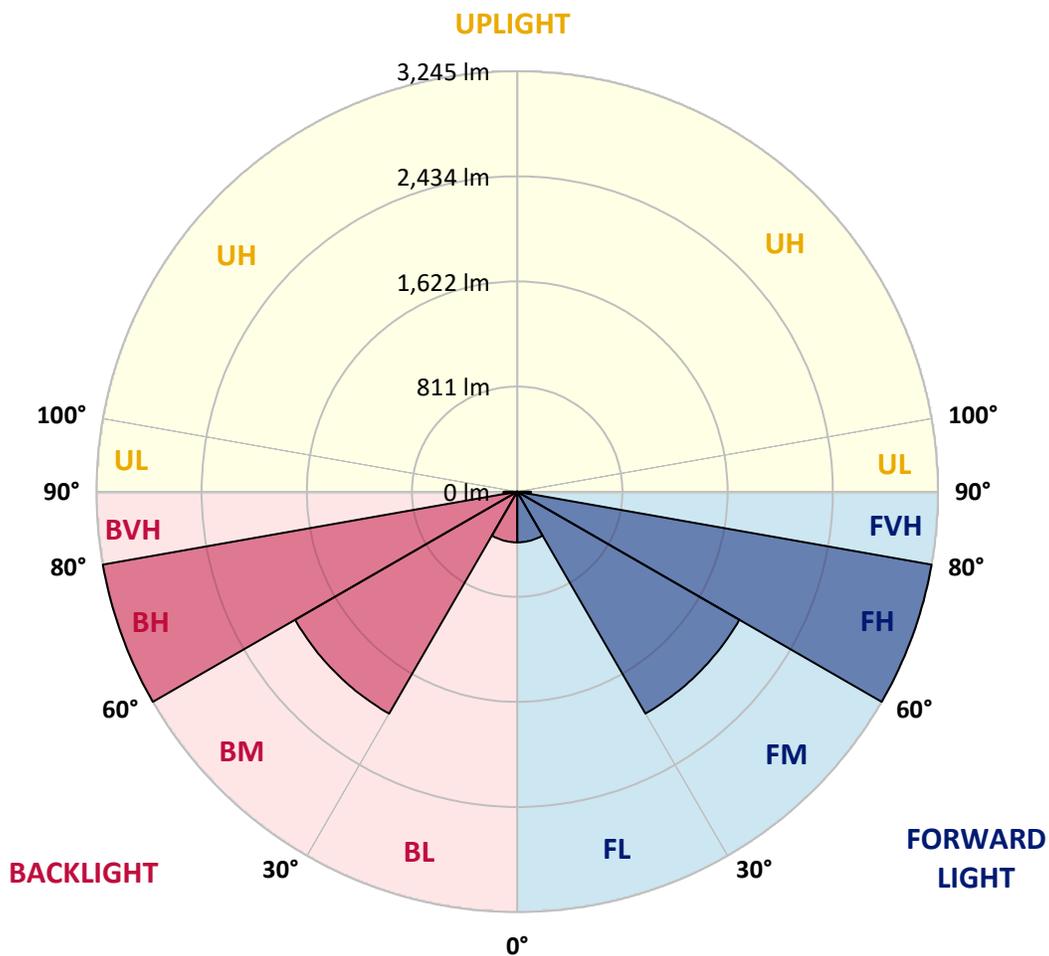
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	391.1	3.4			
FM	(30°-60°)	1977.9	17.3			
FH	(60°-80°)	3244.8	28.4			G2/5000
FVH	(80°-90°)	105.7	0.9			G2/225
BL	(0°-30°)	391.1	3.4	B1/500		
BM	(30°-60°)	1977.9	17.3	B2/2500		
BH	(60°-80°)	3244.8	28.4	B4/5000		G2/5000
BVH	(80°-90°)	105.7	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	941.4	941.4	941.4	941.4	941.4	941.4	941.4	941.4	941.4	941.4	941.4
2.5°	937.3	938.4	937.3	938.0	936.1	936.9	936.9	936.9	936.5	936.9	936.1
5°	928.9	929.7	928.2	928.9	927.8	928.9	929.3	928.9	928.2	928.6	927.1
7.5°	916.5	917.2	916.1	917.2	915.7	917.6	917.2	916.1	914.9	914.9	913.4
10°	909.6	910.0	907.0	905.9	902.5	903.2	904.3	905.5	906.6	908.9	908.5
12.5°	910.0	910.0	905.5	900.6	895.6	896.8	898.7	902.8	907.4	911.5	911.9
15°	913.8	913.4	906.6	898.7	895.3	898.7	899.8	902.5	909.6	916.8	917.2
17.5°	916.5	916.5	905.9	896.8	896.4	901.7	901.3	902.5	910.4	921.0	921.4
20°	921.4	921.4	907.8	897.9	897.9	903.6	904.0	905.9	913.8	925.5	927.4
22.5°	932.3	932.7	918.3	910.4	911.2	914.6	915.7	918.7	925.9	938.8	941.1
25°	947.9	948.6	933.9	929.3	932.0	938.4	937.6	939.9	947.9	960.4	962.6
27.5°	969.4	967.5	953.9	952.0	954.7	959.2	958.8	959.2	965.6	977.0	979.6
30°	997.4	996.7	986.8	988.0	986.8	985.3	985.7	988.7	992.1	1001.2	1003.9
32.5°	1024.7	1025.4	1019.4	1025.1	1033.4	1039.1	1030.4	1022.0	1018.2	1023.2	1025.4
35°	1073.9	1075.8	1066.3	1062.5	1073.9	1090.5	1065.9	1052.3	1059.9	1066.3	1068.2
37.5°	1157.5	1158.6	1142.7	1127.6	1119.3	1135.2	1110.6	1111.7	1138.2	1150.3	1149.9
40°	1252.8	1253.2	1242.6	1229.4	1215.0	1218.8	1209.0	1212.0	1229.4	1240.4	1243.4
42.5°	1366.4	1365.2	1348.6	1329.7	1325.5	1329.3	1312.6	1310.4	1330.4	1350.1	1350.5
45°	1513.6	1510.9	1489.3	1468.5	1448.5	1440.1	1436.0	1447.0	1474.6	1492.7	1493.1
47.5°	1672.1	1664.9	1653.6	1636.9	1619.5	1611.2	1604.4	1609.7	1629.7	1636.9	1637.7
50°	1835.2	1836.7	1839.0	1832.5	1826.1	1823.5	1805.7	1795.5	1801.5	1788.3	1786.4
52.5°	2028.5	2031.6	2053.5	2072.1	2083.0	2088.7	2055.0	2019.8	2000.2	1974.4	1966.9
55°	2256.7	2261.6	2293.8	2345.3	2398.2	2426.2	2365.3	2299.5	2238.5	2190.5	2175.0
57.5°	2511.0	2519.7	2564.0	2662.7	2771.3	2837.5	2734.6	2615.0	2497.4	2428.1	2416.0
60°	2809.2	2817.5	2878.8	3020.3	3196.2	3295.8	3139.9	2944.2	2797.8	2731.6	2709.3
62.5°	3164.1	3164.8	3240.1	3405.5	3637.8	3776.3	3565.2	3303.7	3152.7	3072.9	3051.3
65°	3545.9	3547.8	3625.7	3804.3	4044.6	4195.2	3956.8	3684.4	3499.7	3382.0	3365.4
67.5°	3815.7	3823.6	3905.7	4120.7	4345.4	4481.3	4234.5	3926.5	3713.1	3572.7	3558.7
70°	3772.5	3803.6	3900.1	4150.9	4463.5	4657.2	4279.6	3897.8	3616.3	3450.5	3438.8
72.5°	3290.1	3349.5	3478.1	3807.3	4307.2	4574.0	4034.0	3491.0	3172.4	3031.3	3010.1
75°	2240.4	2336.9	2531.0	3005.9	3679.8	3960.2	3396.0	2783.4	2483.7	2288.5	2274.1
77.5°	998.9	1020.9	1266.8	1813.6	2539.4	2844.0	2467.5	1820.8	1366.7	1090.1	1031.9
80°	278.5	281.9	376.1	675.4	1271.0	1671.0	1364.5	709.5	398.8	281.1	264.9
82.5°	88.5	96.1	117.3	175.2	427.2	762.5	438.6	189.2	134.7	107.5	96.9
85°	43.1	42.8	59.4	71.1	109.0	168.8	116.2	87.8	76.8	51.1	46.2
87.5°	18.2	18.5	27.6	25.0	31.8	27.2	37.5	39.4	41.2	22.7	19.7
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)