

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: P1208984

Luminaire Tested: UPW-SA2-090-727-U-5WQ

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-5WQ
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 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: 10505 lumens
Efficiency: N/A
Efficacy: 122.2 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

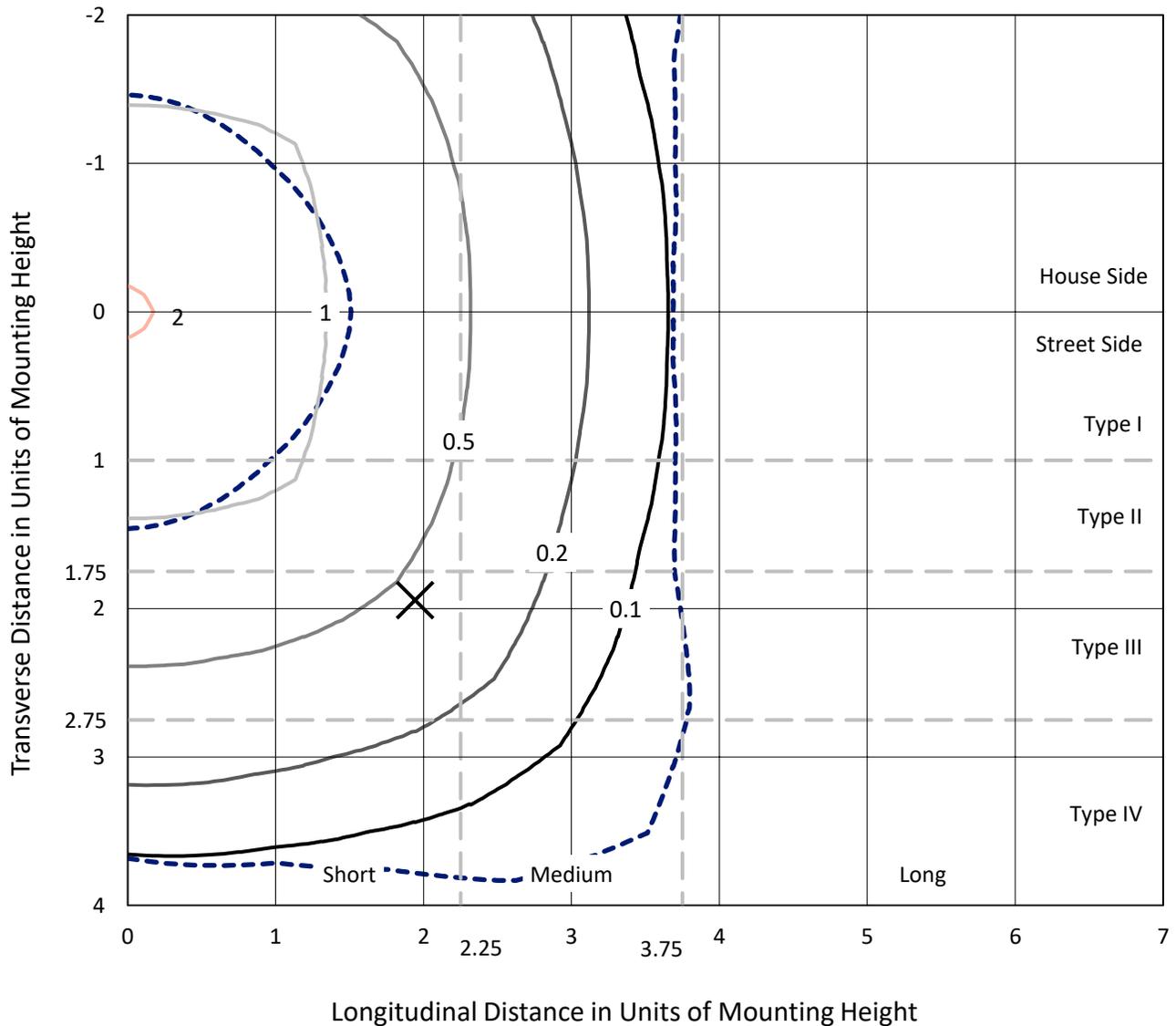


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

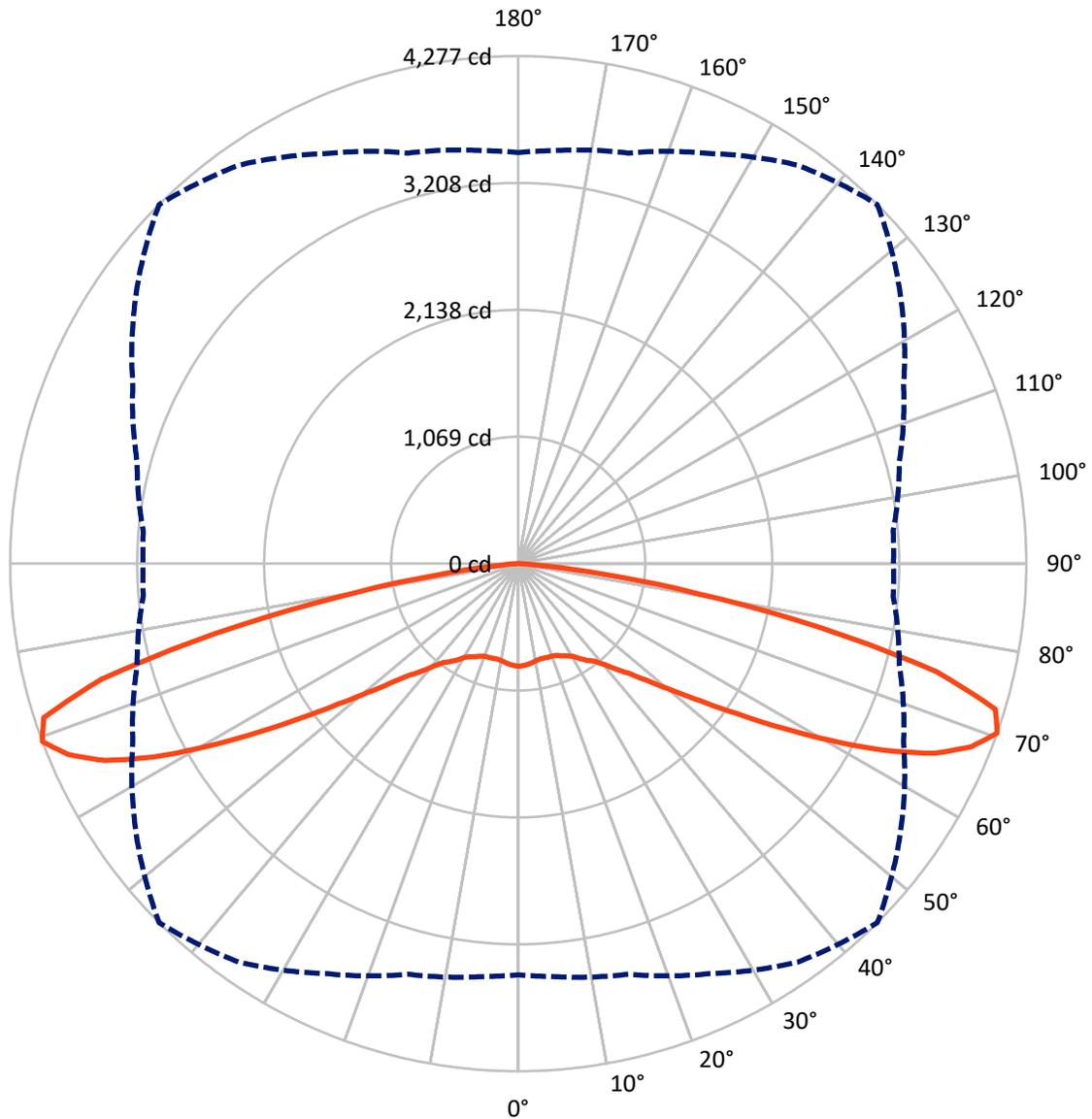


Based on 20 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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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	5252.5	0.0	5252.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5252.5	0.0	5252.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10505.0	0.0	10505.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	0.8
10°-20°	235.7	2.2
20°-30°	401.9	3.8
30°-40°	627.9	6.0
40°-50°	1064.2	10.1
50°-60°	1940.7	18.5
60°-70°	3341.0	31.8
70°-80°	2618.8	24.9
80°-90°	194.2	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°	10505.0	100.0
0°-180°	10505.0	100.0



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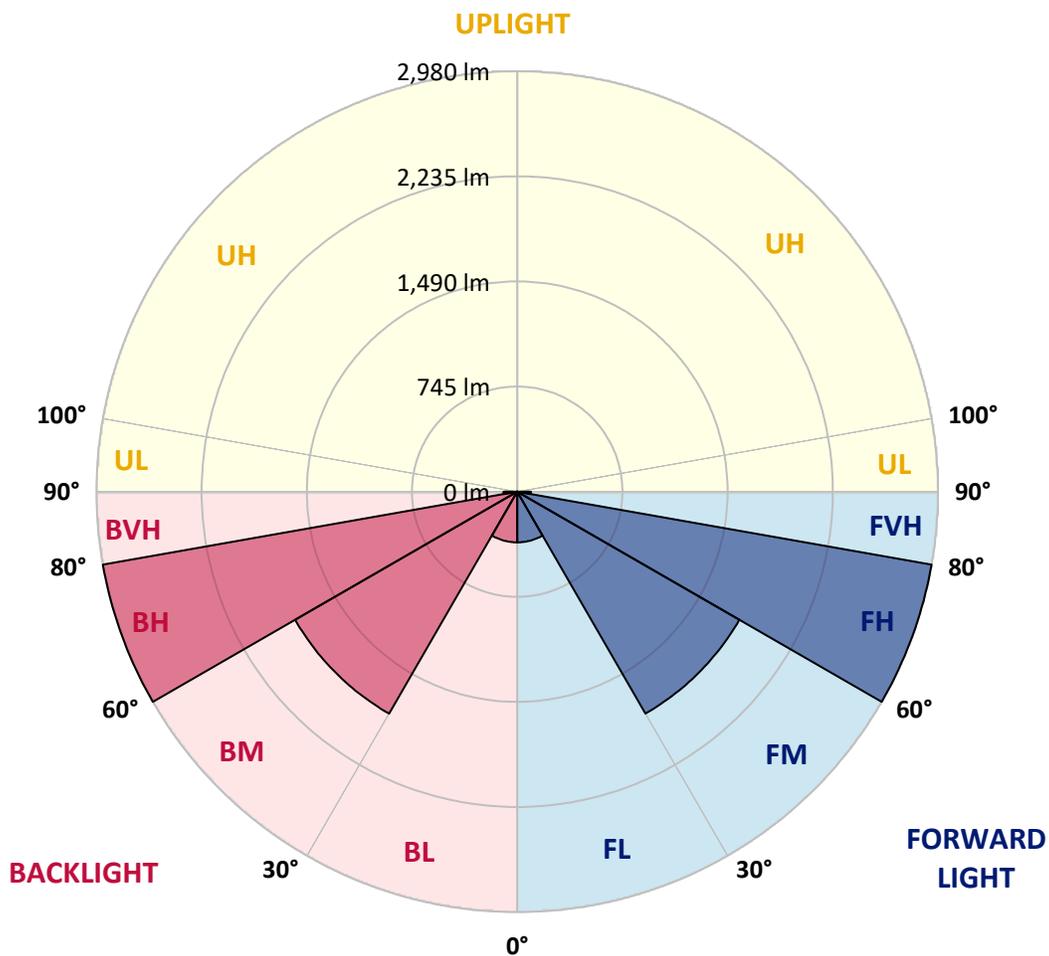
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.1	3.4			
FM	(30°-60°)	1816.4	17.3			
FH	(60°-80°)	2979.9	28.4			G2/5000
FVH	(80°-90°)	97.1	0.9			G1/100
BL	(0°-30°)	359.1	3.4	B1/500		
BM	(30°-60°)	1816.4	17.3	B2/2500		
BH	(60°-80°)	2979.9	28.4	B4/5000		G2/5000
BVH	(80°-90°)	97.1	0.9			G1/100
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°	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6
2.5°	860.7	861.8	860.7	861.4	859.7	860.4	860.4	860.4	860.0	860.4	859.7
5°	853.1	853.8	852.4	853.1	852.1	853.1	853.4	853.1	852.4	852.7	851.4
7.5°	841.6	842.3	841.3	842.3	840.9	842.7	842.3	841.3	840.2	840.2	838.8
10°	835.4	835.7	832.9	831.9	828.8	829.5	830.5	831.6	832.6	834.7	834.3
12.5°	835.7	835.7	831.6	827.0	822.5	823.6	825.3	829.1	833.3	837.1	837.5
15°	839.2	838.8	832.6	825.3	822.2	825.3	826.3	828.8	835.4	842.0	842.3
17.5°	841.6	841.6	831.9	823.6	823.2	828.1	827.7	828.8	836.1	845.8	846.1
20°	846.1	846.1	833.6	824.6	824.6	829.8	830.2	831.9	839.2	850.0	851.7
22.5°	856.2	856.6	843.4	836.1	836.8	839.9	840.9	843.7	850.3	862.1	864.2
25°	870.5	871.2	857.6	853.4	855.9	861.8	861.1	863.2	870.5	881.9	884.0
27.5°	890.3	888.5	876.0	874.3	876.7	880.9	880.5	880.9	886.8	897.2	899.7
30°	916.0	915.3	906.3	907.3	906.3	904.9	905.2	908.0	911.1	919.5	921.9
32.5°	941.0	941.7	936.1	941.4	949.0	954.2	946.2	938.6	935.1	939.6	941.7
35°	986.2	987.9	979.2	975.8	986.2	1001.5	978.9	966.4	973.3	979.2	981.0
37.5°	1063.0	1064.0	1049.4	1035.5	1027.9	1042.5	1019.9	1020.9	1045.3	1056.4	1056.0
40°	1150.5	1150.9	1141.2	1129.0	1115.8	1119.3	1110.2	1113.0	1129.0	1139.1	1141.9
42.5°	1254.8	1253.8	1238.5	1221.1	1217.3	1220.7	1205.5	1203.4	1221.8	1239.9	1240.2
45°	1390.0	1387.5	1367.7	1348.6	1330.2	1322.6	1318.7	1328.8	1354.2	1370.9	1371.2
47.5°	1535.6	1529.0	1518.5	1503.3	1487.3	1479.6	1473.4	1478.2	1496.7	1503.3	1504.0
50°	1685.3	1686.7	1688.8	1682.9	1677.0	1674.6	1658.2	1648.9	1654.4	1642.3	1640.5
52.5°	1862.9	1865.7	1885.8	1902.9	1912.9	1918.2	1887.2	1854.9	1836.8	1813.2	1806.3
55°	2072.4	2077.0	2106.5	2153.8	2202.4	2228.1	2172.2	2111.7	2055.8	2011.6	1997.4
57.5°	2306.0	2314.0	2354.6	2445.3	2545.0	2605.9	2511.3	2401.5	2293.5	2229.9	2218.7
60°	2579.8	2587.4	2643.7	2773.7	2935.3	3026.7	2883.5	2703.8	2569.4	2508.6	2488.1
62.5°	2905.7	2906.4	2975.6	3127.4	3340.8	3468.0	3274.1	3034.0	2895.3	2822.0	2802.2
65°	3256.4	3258.1	3329.7	3493.7	3714.4	3852.7	3633.7	3383.5	3214.0	3105.9	3090.6
67.5°	3504.1	3511.4	3586.8	3784.2	3990.6	4115.4	3888.8	3605.9	3410.0	3281.0	3268.2
70°	3464.5	3493.0	3581.6	3812.0	4099.0	4276.9	3930.1	3579.5	3321.0	3168.8	3158.0
72.5°	3021.5	3076.0	3194.2	3496.5	3955.5	4200.5	3704.6	3206.0	2913.4	2783.8	2764.3
75°	2057.5	2146.1	2324.4	2760.5	3379.4	3636.9	3118.8	2556.2	2280.9	2101.6	2088.4
77.5°	917.4	937.5	1163.4	1665.5	2332.0	2611.8	2266.0	1672.1	1255.1	1001.1	947.6
80°	255.8	258.9	345.4	620.3	1167.2	1534.5	1253.1	651.5	366.3	258.2	243.2
82.5°	81.3	88.3	107.7	160.9	392.3	700.2	402.7	173.7	123.7	98.7	89.0
85°	39.6	39.3	54.6	65.3	100.1	155.0	106.7	80.6	70.5	46.9	42.4
87.5°	16.7	17.0	25.4	22.9	29.2	25.0	34.4	36.1	37.9	20.8	18.1
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)