

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: P1209158

Luminaire Tested: UPW-SA2-090-827-U-T1

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-827-U-T1  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8807 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

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

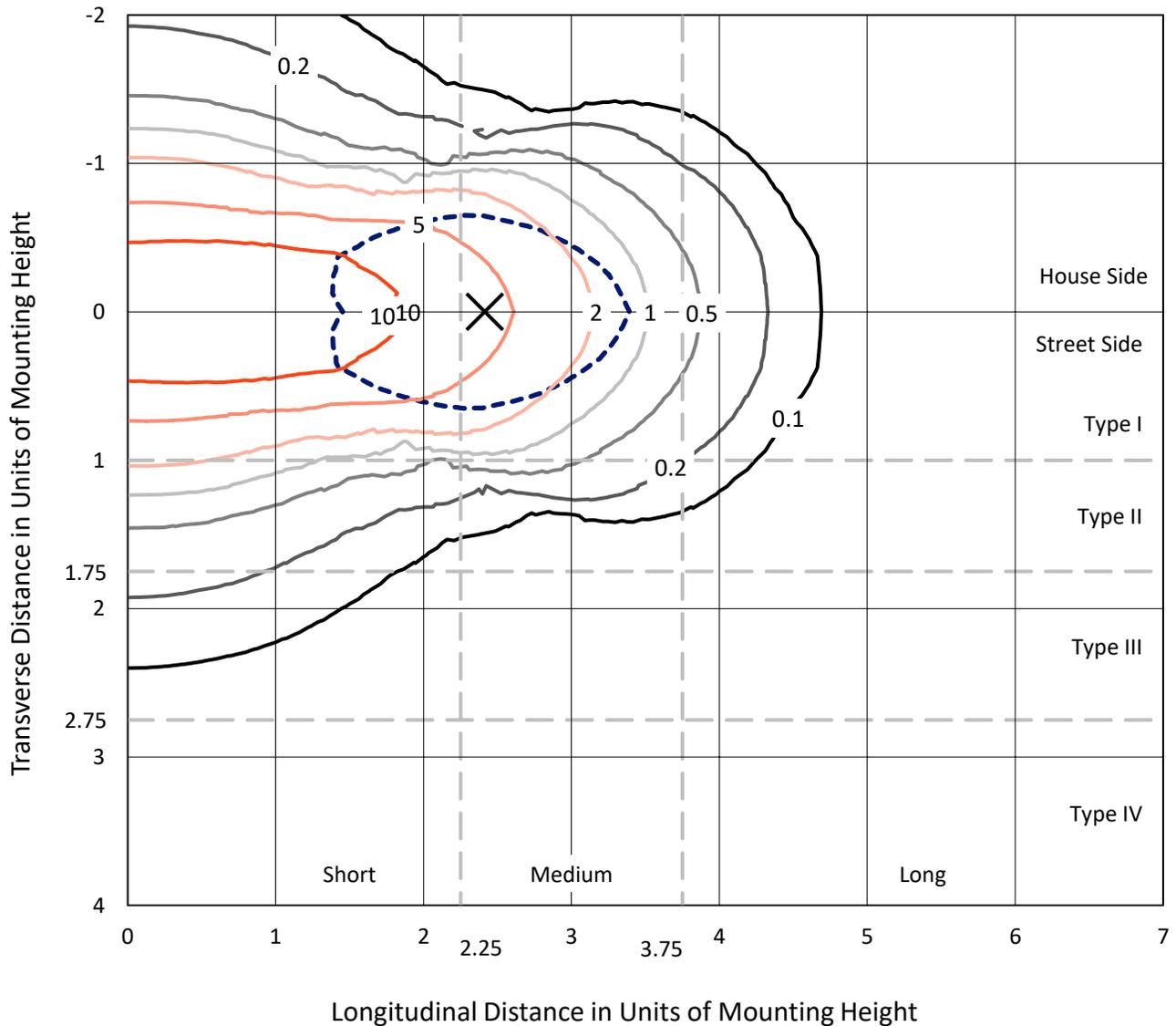


REPORT NUMBER: P1209158

CATALOG NUMBER: UPW-SA2-090-827-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

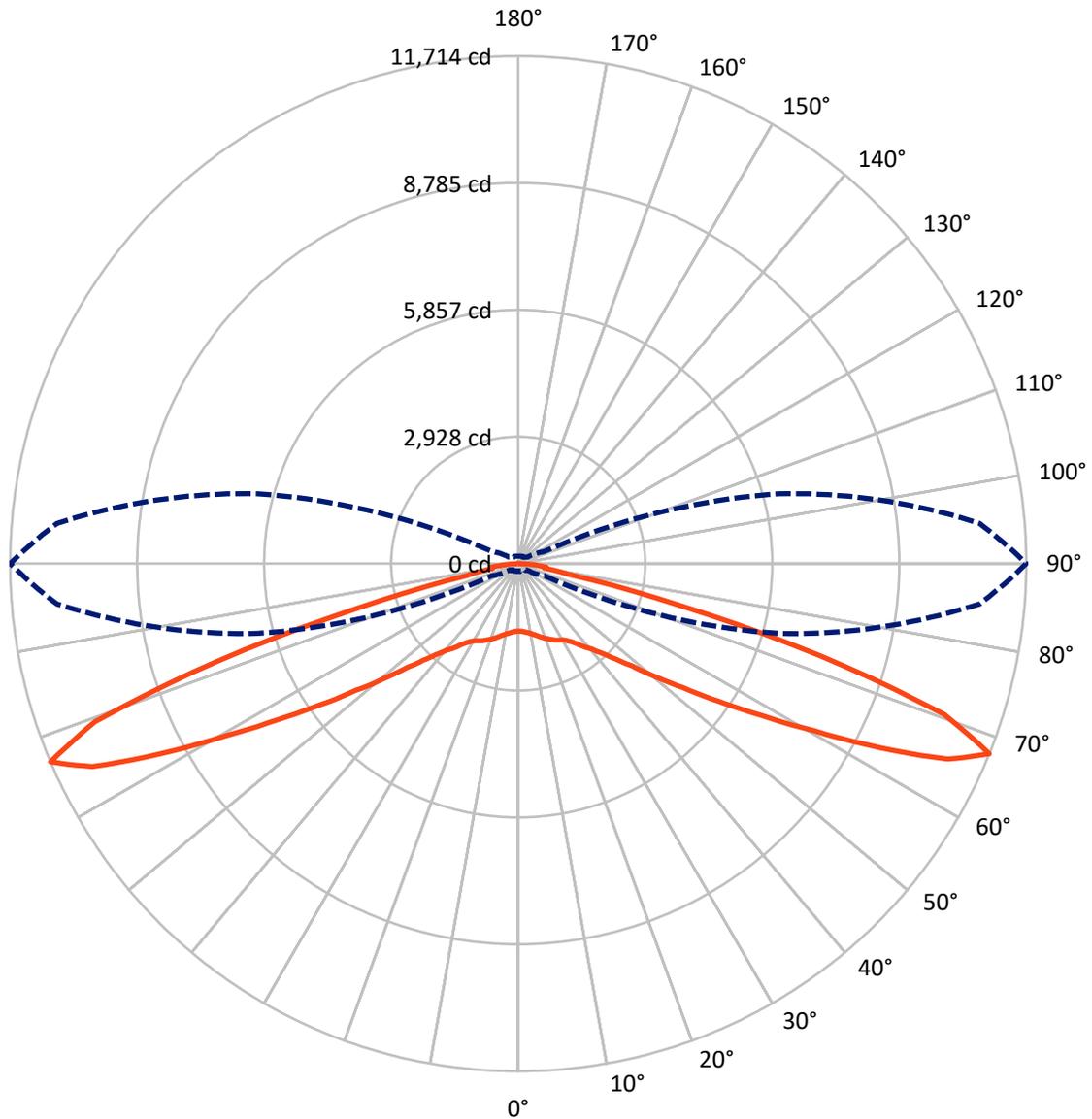
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc  
 Type I - Short - N/A

REPORT NUMBER: P1209158  
CATALOG NUMBER: UPW-SA2-090-827-U-T1

### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: UPW-SA2-090-827-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4403.5	0.0	4403.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4403.5	0.0	4403.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8807.0	0.0	8807.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.4	1.8
10°-20°	497.3	5.6
20°-30°	832.4	9.5
30°-40°	1127.7	12.8
40°-50°	1428.4	16.2
50°-60°	1784.5	20.3
60°-70°	2097.6	23.8
70°-80°	802.4	9.1
80°-90°	81.3	0.9
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°	8807.0	100.0
0°-180°	8807.0	100.0



REPORT NUMBER: P1209158

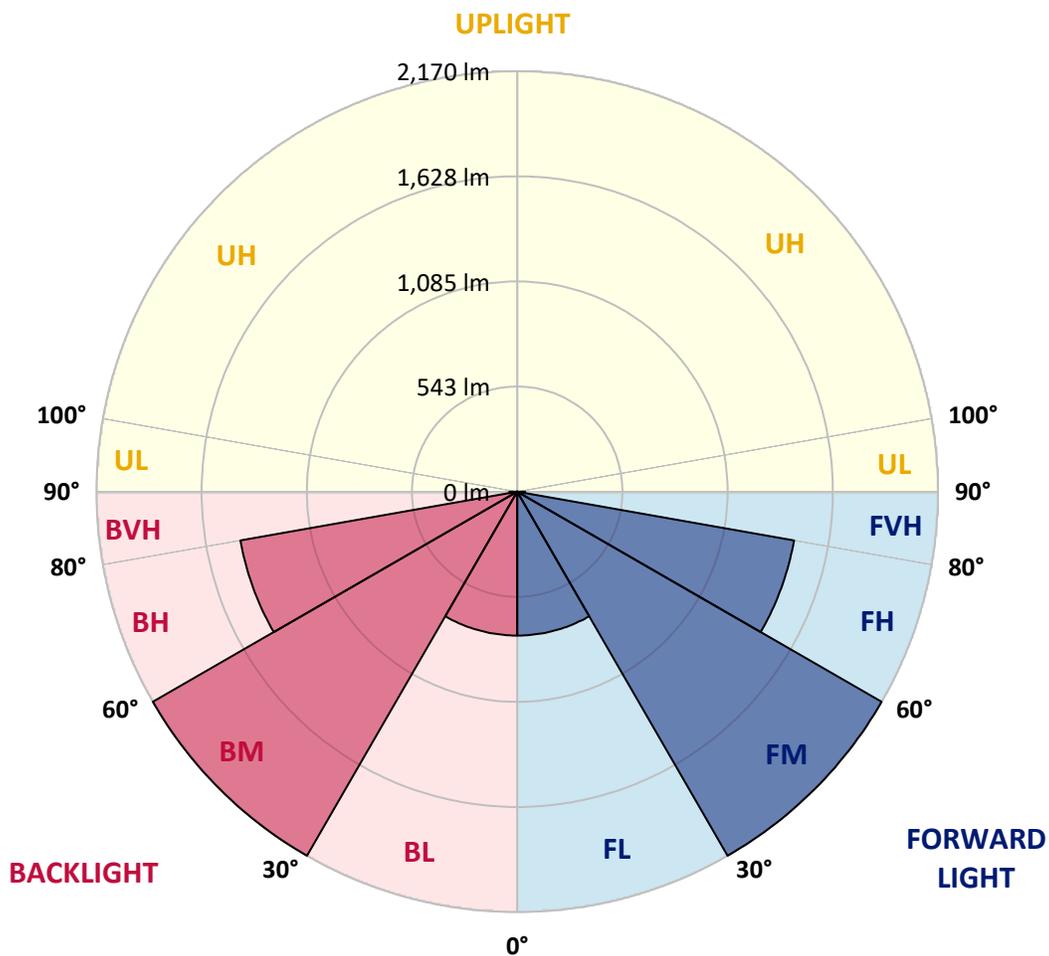
CATALOG NUMBER: UPW-SA2-090-827-U-T1

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	742.6	8.4			
FM	(30°-60°)	2170.3	24.6			
FH	(60°-80°)	1450.0	16.5			G1/1800
FVH	(80°-90°)	40.6	0.5			G1/100
BL	(0°-30°)	742.6	8.4	B2/1000		
BM	(30°-60°)	2170.3	24.6	B2/2500		
BH	(60°-80°)	1450.0	16.5	B3/2500		G3/2500
BVH	(80°-90°)	40.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1559.1	1559.1	1559.1	1559.1	1559.1	1559.1	1559.1	1559.1	1559.1	1559.1	1559.1
2.5°	1579.1	1578.1	1578.6	1578.1	1579.6	1578.6	1572.8	1567.9	1564.0	1564.5	1563.0
5°	1612.8	1613.2	1613.7	1611.3	1614.7	1612.8	1603.5	1595.7	1587.9	1585.0	1584.0
7.5°	1640.6	1643.0	1644.5	1646.9	1652.7	1652.7	1647.9	1636.7	1619.6	1609.8	1609.3
10°	1668.4	1670.3	1674.7	1682.5	1692.2	1701.5	1699.6	1684.4	1662.5	1645.9	1642.0
12.5°	1678.1	1680.5	1695.2	1717.6	1739.6	1757.6	1757.6	1745.4	1717.1	1691.8	1684.4
15°	1644.0	1648.4	1674.7	1722.5	1780.0	1819.5	1828.3	1811.2	1781.0	1742.0	1733.2
17.5°	1576.2	1586.9	1625.4	1696.2	1791.7	1873.7	1899.0	1890.7	1851.7	1802.0	1791.7
20°	1503.5	1515.2	1556.2	1649.8	1782.0	1905.4	1979.0	1981.0	1932.7	1860.5	1845.4
22.5°	1423.5	1432.3	1485.0	1594.7	1752.7	1912.7	2047.8	2081.4	2016.1	1919.0	1897.6
25°	1333.8	1343.6	1398.7	1517.2	1697.6	1904.4	2110.7	2184.8	2103.4	1981.4	1954.1
27.5°	1248.0	1251.9	1310.9	1431.3	1625.0	1882.9	2157.0	2279.9	2199.9	2033.1	1998.5
30°	1165.6	1174.8	1227.0	1346.0	1541.6	1841.0	2197.0	2388.2	2303.8	2087.3	2042.9
32.5°	1078.3	1089.5	1146.0	1266.5	1458.2	1778.1	2221.4	2506.7	2448.6	2175.1	2127.7
35°	994.4	1001.7	1058.8	1175.8	1376.7	1704.9	2225.8	2640.3	2635.4	2308.2	2245.3
37.5°	908.5	919.3	976.8	1089.0	1290.4	1627.4	2203.8	2782.2	2860.7	2493.0	2425.2
40°	826.1	835.4	892.0	1005.1	1192.4	1532.8	2151.6	2911.9	3123.6	2683.2	2587.1
42.5°	736.4	738.8	800.8	915.9	1096.3	1423.1	2076.5	3027.5	3416.7	2938.3	2818.8
45°	634.5	640.8	698.4	811.5	986.1	1300.2	1974.6	3123.1	3788.3	3291.8	3129.0
47.5°	532.5	537.9	590.6	702.3	865.6	1159.2	1817.6	3207.0	4169.7	3741.0	3527.4
50°	433.1	436.0	478.9	577.9	730.1	1011.0	1623.0	3233.8	4600.8	4376.9	4104.3
52.5°	342.4	346.7	379.4	457.0	585.2	835.9	1412.8	3167.5	5104.1	5130.9	4746.6
55°	277.5	279.0	303.3	360.4	457.4	652.5	1159.2	2982.7	5645.4	6097.0	5606.9
57.5°	239.0	239.9	253.6	285.3	352.1	492.1	899.3	2633.0	6131.6	7228.9	6598.8
60°	217.0	217.5	225.3	243.8	279.0	377.5	644.2	2139.5	6611.5	8488.6	7831.7
62.5°	203.4	203.4	208.7	219.0	236.0	289.7	466.7	1543.5	6940.2	9766.8	9351.3
65°	190.2	190.2	194.1	201.4	210.7	237.0	344.8	1006.6	6931.9	10697.8	10879.7
67.5°	175.1	175.1	178.0	185.3	190.7	203.9	266.3	659.3	6226.7	10677.3	11713.6
70°	157.0	157.0	160.9	167.3	171.7	180.0	210.2	451.1	4574.4	9116.7	10417.3
72.5°	139.0	139.5	141.9	148.3	151.7	156.5	174.6	316.0	2806.1	6207.7	7284.0
75°	119.0	120.0	122.4	128.7	131.7	133.6	147.3	225.3	1419.6	3346.9	3810.7
77.5°	96.1	98.0	99.5	106.3	108.3	111.2	121.4	162.9	623.3	1202.6	1213.3
80°	70.2	72.7	77.1	83.4	84.9	86.8	92.7	115.6	282.4	549.1	596.4
82.5°	51.7	55.1	49.7	58.0	58.0	55.6	65.3	77.5	129.7	543.8	650.6
85°	28.3	28.8	25.8	29.7	31.7	31.2	34.6	38.0	62.9	362.8	374.1
87.5°	6.8	7.3	7.8	9.3	11.2	11.2	12.2	10.7	20.5	117.5	67.3
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)