

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P983459

Luminaire Tested: S125IW-B1560UB27-4F0-XX-W2A

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P983459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IW-B1560UB27-4F0-XX-W2A
Description: Define 5 Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

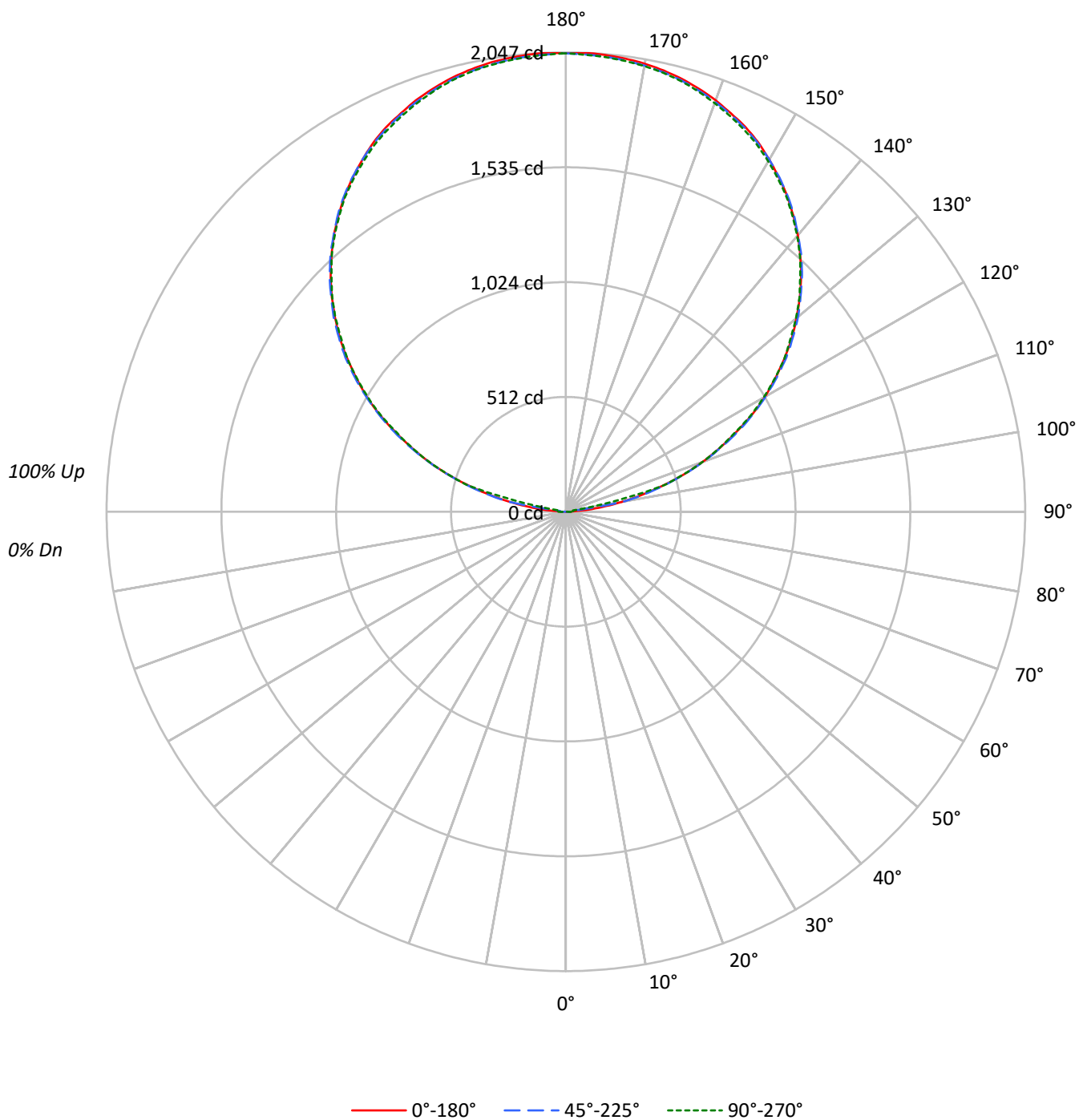
Lumens per Lamp: N/A
Luminaire Lumens: 6278.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 52.2
Input Voltage (V):
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: 24 FT

TEST NUMBER: P983459

CATALOG NUMBER: S125IW-B1560UB27-4F0-XX-W2A

Luminous Intensity Polar Plot



TEST NUMBER: P983459

CATALOG NUMBER: S125IW-B1560UB27-4F0-XX-W2A

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

TEST NUMBER: P983459

CATALOG NUMBER: S125IW-B1560UB27-4F0-XX-W2A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	3.0	0.0
90°-100°	69.3	1.1
100°-110°	461.0	7.3
110°-120°	830.2	13.2
120°-130°	1065.6	17.0
130°-140°	1146.1	18.3
140°-150°	1075.7	17.1
150°-160°	870.1	13.9
160°-170°	562.7	9.0
170°-180°	194.1	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.0	0.0
90°-120°	1360.6	21.7
90°-150°	4648.1	74.0
90°-180°	6275.0	100.0
0°-180°	6278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	2	14	24	32	36	4
95°	86	82	24	32	32	106
105°	445	451	451	451	450	472
115°	836	844	845	839	830	829
125°	1189	1199	1199	1193	1189	1062
135°	1482	1492	1488	1486	1476	1143
145°	1719	1722	1722	1723	1714	1075
155°	1893	1884	1887	1891	1879	872
165°	1997	1988	1990	1999	1987	564
175°	2043	2034	2035	2047	2034	195
180°	2043	2043	2043	2043	2043	

TEST NUMBER: P983459

CATALOG NUMBER: S125IW-B1560UB27-4F0-XX-W2A

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	1.5	13.6	24.2	31.8	36.3
92.5°	28.8	15.1	24.2	31.8	33.3
95°	86.3	81.8	24.2	31.8	31.8
97.5°	162.0	171.1	27.3	30.3	31.8
100°	252.9	257.4	263.5	37.9	31.8
102.5°	345.3	351.3	354.3	357.4	230.2
105°	445.2	451.3	451.3	451.3	449.7
107.5°	548.2	548.2	551.2	552.7	546.7
110°	648.1	648.1	651.1	646.6	648.1

TEST NUMBER: P983459

CATALOG NUMBER: S125IW-B1560UB27-4F0-XX-W2A

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	742.0	746.5	748.1	742.0	739.0
115°	835.9	843.5	845.0	838.9	829.8
117.5°	934.3	934.3	940.4	931.3	928.3
120°	1025.2	1023.7	1028.2	1025.2	1017.6
122.5°	1105.4	1113.0	1114.5	1111.5	1102.4
125°	1188.7	1199.3	1199.3	1193.3	1188.7
127.5°	1269.0	1276.5	1275.0	1272.0	1259.9
130°	1341.7	1349.2	1350.7	1346.2	1338.6
132.5°	1414.3	1423.4	1418.9	1418.9	1411.3
135°	1482.5	1491.6	1488.5	1485.5	1476.4
137.5°	1546.1	1555.2	1552.1	1552.1	1544.6
140°	1608.2	1611.2	1609.7	1612.7	1603.6
142.5°	1664.2	1665.7	1668.7	1668.7	1659.7
145°	1718.7	1721.7	1721.7	1723.3	1714.2
147.5°	1767.2	1767.2	1768.7	1770.2	1759.6
150°	1812.6	1809.6	1812.6	1815.6	1803.5
152.5°	1856.5	1848.9	1852.0	1855.0	1844.4
155°	1892.9	1883.8	1886.8	1891.3	1879.2
157.5°	1921.6	1917.1	1917.1	1921.6	1909.5
160°	1951.9	1942.8	1944.3	1950.4	1938.3
162.5°	1976.1	1967.1	1968.6	1977.7	1964.0
165°	1997.3	1988.3	1989.8	1998.9	1986.7
167.5°	2014.0	2004.9	2006.4	2017.0	2003.4
170°	2027.6	2017.0	2018.5	2030.7	2017.0
172.5°	2036.7	2026.1	2029.1	2039.7	2026.1
175°	2042.8	2033.7	2035.2	2047.3	2033.7
177.5°	2047.3	2038.2	2039.7	2050.3	2038.2
180°	2042.8	2042.8	2042.8	2042.8	2042.8

(END OF REPORT)