

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: P1034357

Luminaire Tested: S125DIW-B1090D1560UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034357
REPORT IS A COMBINATION OF REPORTS P1002878 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1560UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

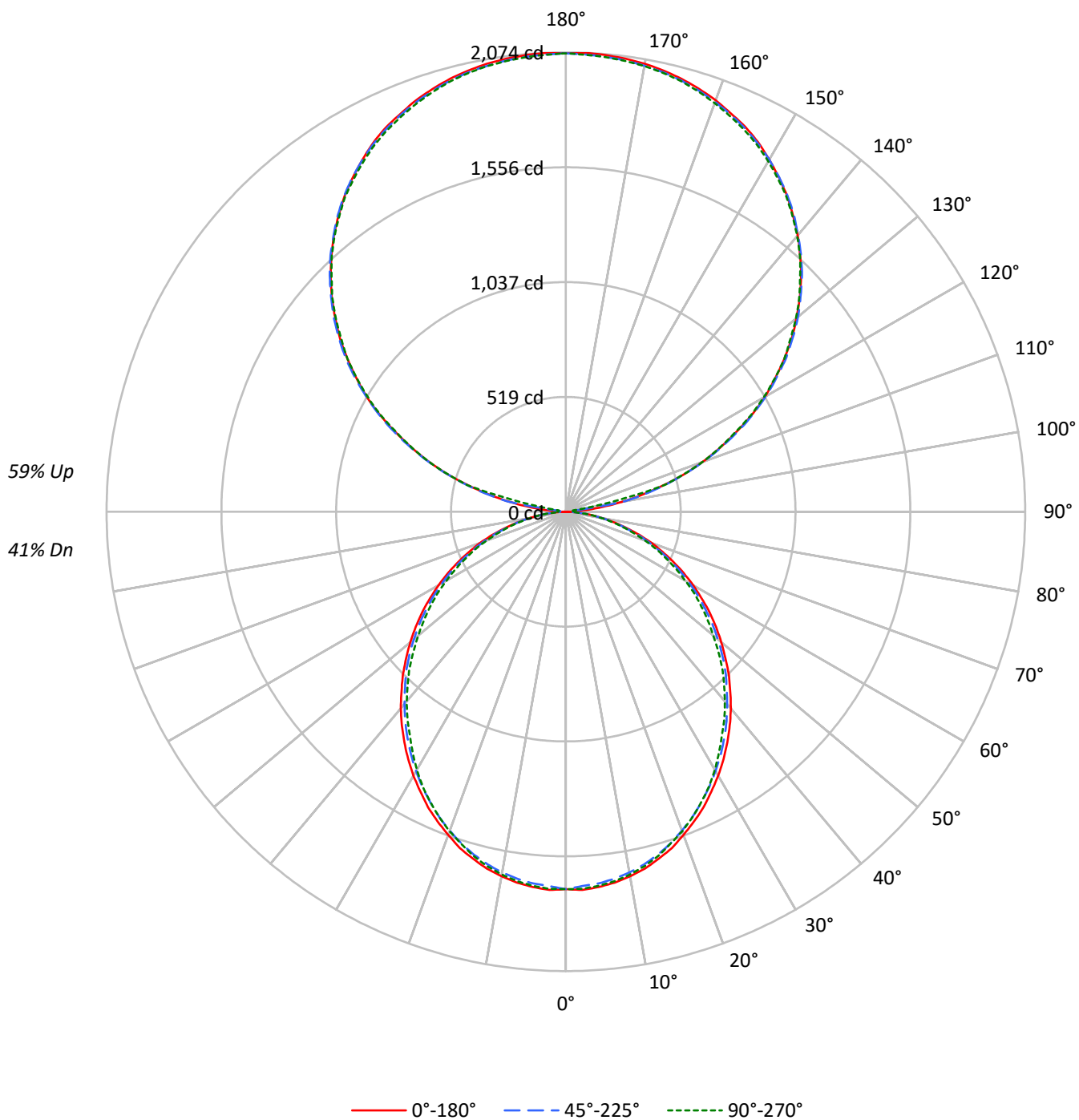
Lumens per Lamp: N/A
Luminaire Lumens: 10793.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 99
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: P1034357

CATALOG NUMBER: S125DIW-B1090D1560UB2750-4F0-XX-W2A-F_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1034357

CATALOG NUMBER: S125DIW-B1090D1560UB2750-4F0-XX-W2A-F_3500K

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	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48
1	96	91	88	84	87	83	80	77	69	66	64	55	53	52	42	41	40
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	35	34
3	79	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17
8	53	40	33	27	48	37	30	26	31	26	22	25	21	19	20	17	15
9	49	37	29	24	44	34	27	23	29	23	20	23	19	17	19	16	14
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10915	10915	10915
5°	10916	10662	10682
10°	10825	10417	10384
15°	10683	10125	10034
20°	10491	9786	9632
25°	10285	9416	9202
30°	10036	9031	8749
35°	9769	8627	8241
40°	9495	8200	7789
45°	9198	7784	7309
50°	8871	7313	6750
55°	8547	6792	6235
60°	8162	6243	5637
65°	7700	5608	5018
70°	7229	4878	4305
75°	6440	4017	3480
80°	5487	3000	2560
85°	4237	1775	1410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9198 cd/sqm

TEST NUMBER: P1034357

CATALOG NUMBER: S125DIW-B1090D1560UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.5
10°-20°	454.1	4.2
20°-30°	670.4	6.2
30°-40°	782.1	7.2
40°-50°	785.5	7.3
50°-60°	689.5	6.4
60°-70°	513.6	4.8
70°-80°	293.3	2.7
80°-90°	87.7	0.8
90°-100°	70.2	0.7
100°-110°	467.1	4.3
110°-120°	841.1	7.8
120°-130°	1079.6	10.0
130°-140°	1161.1	10.8
140°-150°	1089.7	10.1
150°-160°	881.5	8.2
160°-170°	570.1	5.3
170°-180°	196.6	1.8
0°-30°	1285.2	11.9
0°-40°	2067.3	19.2
0°-60°	3542.4	32.8
0°-90°	4437.1	41.1
90°-120°	1378.3	12.8
90°-150°	4708.7	43.6
90°-180°	6357.0	58.9
0°-180°	10793.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1701	1698	1685	1697	1696	161
15°	1621	1617	1602	1609	1609	457
25°	1472	1465	1448	1450	1446	677
35°	1271	1266	1247	1240	1229	795
45°	1040	1035	1019	1003	999	802
55°	792	788	770	757	748	707
65°	535	532	518	505	500	531
75°	284	282	275	271	266	303
85°	74	76	76	74	71	81
90°	2	14	24	32	37	9
95°	87	83	24	32	32	107
105°	451	457	457	457	456	478
115°	847	854	856	850	841	839
125°	1204	1215	1215	1209	1204	1076
135°	1502	1511	1508	1505	1496	1158
145°	1741	1744	1744	1746	1737	1089
155°	1918	1908	1911	1916	1904	884
165°	2023	2014	2016	2025	2013	572
175°	2070	2060	2062	2074	2060	197
180°	2070	2070	2070	2070	2070	

TEST NUMBER: P1034357

CATALOG NUMBER: S125DIW-B1090D1560UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1709.0	1704.9	1691.5	1704.9	1703.6
5°	1700.9	1698.2	1684.7	1696.8	1695.5
7.5°	1688.8	1686.1	1671.2	1683.4	1682.0
10°	1671.2	1668.5	1653.7	1664.5	1663.1
12.5°	1649.7	1644.3	1630.8	1638.9	1638.9
15°	1621.4	1617.3	1602.5	1609.2	1609.2
17.5°	1591.7	1585.0	1570.2	1578.2	1571.5
20°	1552.6	1549.9	1532.4	1541.8	1535.1
22.5°	1513.5	1508.2	1492.0	1497.4	1493.3
25°	1471.8	1465.0	1447.5	1450.2	1446.2
27.5°	1423.2	1419.2	1401.7	1403.0	1399.0
30°	1376.1	1372.0	1351.8	1349.1	1345.1
32.5°	1324.9	1318.1	1300.6	1295.2	1287.1
35°	1270.9	1265.6	1246.7	1239.9	1229.2
37.5°	1215.7	1208.9	1191.4	1182.0	1175.3
40°	1159.1	1152.3	1133.5	1121.3	1117.3
42.5°	1098.4	1093.0	1074.2	1063.4	1056.7
45°	1040.5	1035.1	1018.9	1002.7	998.7
47.5°	977.1	978.5	958.3	942.1	932.7
50°	916.5	912.4	896.3	878.7	869.3
52.5°	854.5	851.8	834.3	819.4	808.7
55°	792.5	788.4	769.6	757.4	748.0
57.5°	726.4	725.1	708.9	692.8	688.7
60°	664.5	659.1	644.2	630.8	621.3
62.5°	599.8	595.7	583.6	568.8	562.0
65°	535.1	532.4	517.5	505.4	500.0
67.5°	471.7	466.3	455.5	444.8	442.1
70°	412.4	405.7	393.5	385.5	380.1
72.5°	347.7	343.7	336.9	327.5	322.1
75°	284.4	281.7	274.9	270.9	265.5
77.5°	225.1	223.7	219.7	217.0	212.9
80°	169.8	169.8	167.1	165.8	163.1
82.5°	121.3	118.6	118.6	115.9	115.9
85°	74.1	75.5	75.5	74.1	71.4
87.5°	36.4	36.4	35.0	35.0	32.3
90°	1.5	13.8	24.5	32.2	36.8
92.5°	29.1	15.3	24.5	32.2	33.7
95°	87.4	82.8	24.5	32.2	32.2
97.5°	164.1	173.3	27.6	30.7	32.2
100°	256.2	260.8	266.9	38.4	32.2
102.5°	349.8	355.9	359.0	362.0	233.2
105°	451.0	457.2	457.2	457.2	455.6
107.5°	555.3	555.3	558.4	559.9	553.8
110°	656.6	656.6	659.6	655.0	656.6

TEST NUMBER: P1034357

CATALOG NUMBER: S125DIW-B1090D1560UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	751.7	756.3	757.8	751.7	748.6
115°	846.8	854.5	856.0	849.9	840.7
117.5°	946.5	946.5	952.7	943.5	940.4
120°	1038.6	1037.0	1041.6	1038.6	1030.9
122.5°	1119.9	1127.5	1129.1	1126.0	1116.8
125°	1204.2	1215.0	1215.0	1208.8	1204.2
127.5°	1285.5	1293.2	1291.7	1288.6	1276.3
130°	1359.2	1366.9	1368.4	1363.8	1356.1
132.5°	1432.8	1442.0	1437.4	1437.4	1429.7
135°	1501.9	1511.1	1508.0	1504.9	1495.7
137.5°	1566.3	1575.5	1572.4	1572.4	1564.7
140°	1629.2	1632.2	1630.7	1633.8	1624.6
142.5°	1685.9	1687.5	1690.5	1690.5	1681.3
145°	1741.2	1744.2	1744.2	1745.8	1736.6
147.5°	1790.3	1790.3	1791.8	1793.3	1782.6
150°	1836.3	1833.2	1836.3	1839.3	1827.1
152.5°	1880.8	1873.1	1876.2	1879.2	1868.5
155°	1917.6	1908.4	1911.4	1916.0	1903.8
157.5°	1946.7	1942.1	1942.1	1946.7	1934.5
160°	1977.4	1968.2	1969.7	1975.9	1963.6
162.5°	2002.0	1992.8	1994.3	2003.5	1989.7
165°	2023.4	2014.2	2015.8	2025.0	2012.7
167.5°	2040.3	2031.1	2032.6	2043.4	2029.6
170°	2054.1	2043.4	2044.9	2057.2	2043.4
172.5°	2063.3	2052.6	2055.6	2066.4	2052.6
175°	2069.5	2060.3	2061.8	2074.1	2060.3
177.5°	2074.1	2064.9	2066.4	2077.1	2064.9
180°	2069.5	2069.5	2069.5	2069.5	2069.5

(END OF REPORT)