

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: P1034979

Luminaire Tested: S125DIW-B1090D1340UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034979
REPORT IS A COMBINATION OF REPORTS P1002821 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1340UB30-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

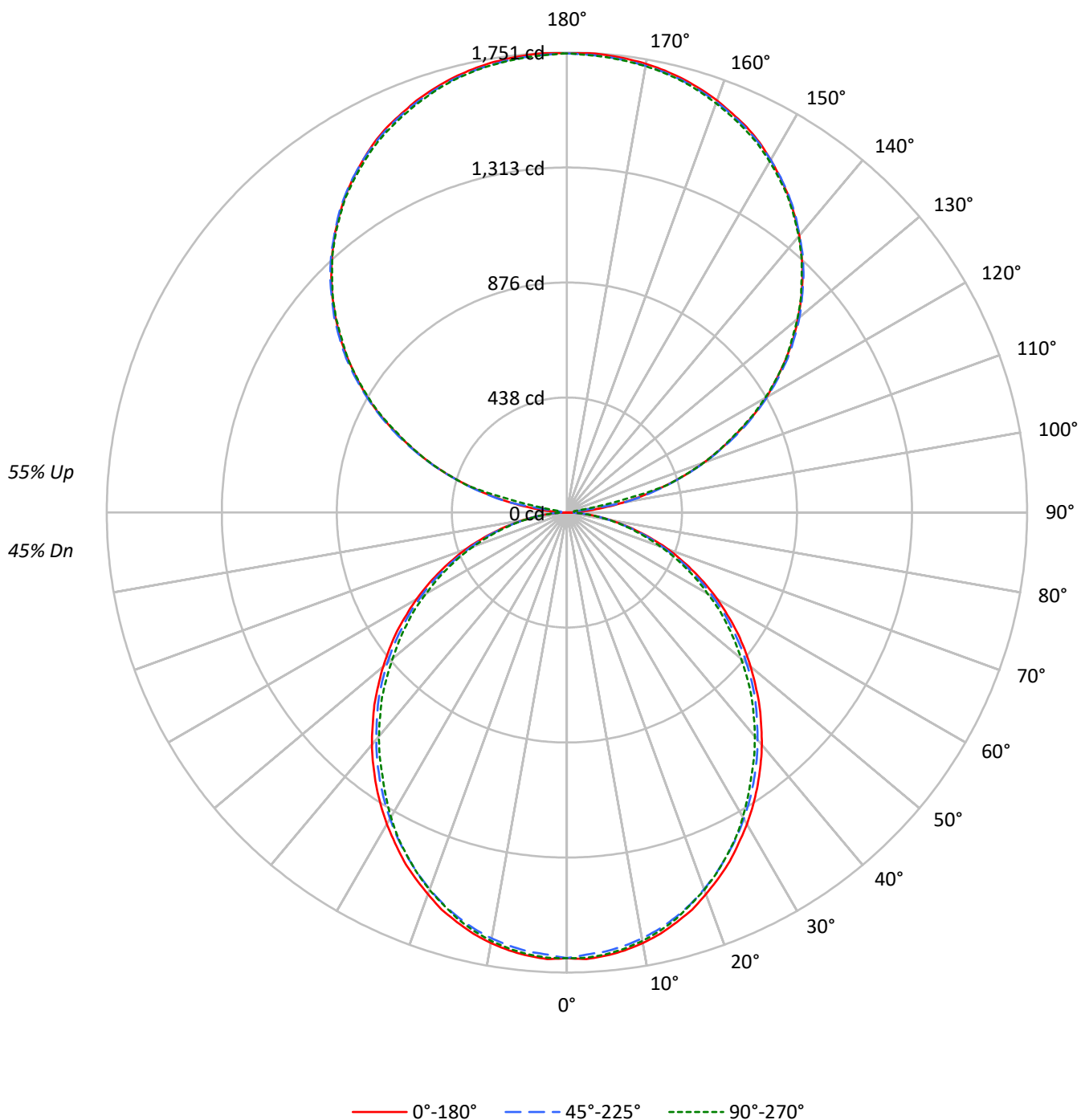
Lumens per Lamp: N/A
Luminaire Lumens: 9785.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 88.9
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: P1034979

CATALOG NUMBER: S125DIW-B1090D1340UB30-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1034979

CATALOG NUMBER: S125DIW-B1090D1340UB30-4F0-XX-W2A-F

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	97	92	88	85	88	85	81	78	71	68	66	58	56	54	46	45	44
2	88	81	74	69	80	74	69	64	62	58	55	51	48	45	40	38	37
3	80	71	63	58	73	65	59	54	54	50	46	45	41	38	35	33	31
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	32	29	27
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16
9	49	37	30	25	45	35	28	23	29	24	20	25	20	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10868	10868	10868
5°	10869	10616	10636
10°	10779	10372	10340
15°	10637	10081	9991
20°	10446	9744	9591
25°	10241	9376	9163
30°	9993	8992	8711
35°	9728	8590	8205
40°	9454	8165	7755
45°	9158	7751	7278
50°	8833	7281	6721
55°	8511	6763	6209
60°	8126	6217	5613
65°	7666	5584	4997
70°	7199	4858	4285
75°	6412	4000	3466
80°	5465	2988	2549
85°	4220	1768	1405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9158 cd/sqm

TEST NUMBER: P1034979

CATALOG NUMBER: S125DIW-B1090D1340UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.6
10°-20°	452.1	4.6
20°-30°	667.5	6.8
30°-40°	778.8	8.0
40°-50°	782.2	8.0
50°-60°	686.6	7.0
60°-70°	511.4	5.2
70°-80°	292.1	3.0
80°-90°	86.9	0.9
90°-100°	59.3	0.6
100°-110°	394.4	4.0
110°-120°	710.2	7.3
120°-130°	911.5	9.3
130°-140°	980.4	10.0
140°-150°	920.1	9.4
150°-160°	744.3	7.6
160°-170°	481.3	4.9
170°-180°	166.0	1.7
0°-30°	1279.7	13.1
0°-40°	2058.4	21.0
0°-60°	3527.2	36.0
0°-90°	4417.6	45.1
90°-120°	1163.8	11.9
90°-150°	3975.8	40.6
90°-180°	5367.0	54.8
0°-180°	9785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1694	1691	1678	1690	1688	161
15°	1614	1610	1596	1602	1602	455
25°	1466	1459	1441	1444	1440	674
35°	1266	1260	1241	1235	1224	792
45°	1036	1031	1014	998	994	798
55°	789	785	766	754	745	704
65°	533	530	515	503	498	528
75°	283	280	274	270	264	301
85°	74	75	75	74	71	81
90°	1	12	21	27	31	9
95°	74	70	21	27	27	90
105°	381	386	386	386	385	403
115°	715	722	723	718	710	709
125°	1017	1026	1026	1021	1017	908
135°	1268	1276	1273	1271	1263	978
145°	1470	1473	1473	1474	1466	919
155°	1619	1611	1614	1618	1607	746
165°	1708	1701	1702	1710	1699	483
175°	1747	1740	1741	1751	1740	166
180°	1747	1747	1747	1747	1747	

TEST NUMBER: P1034979

CATALOG NUMBER: S125DIW-B1090D1340UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.3	1696.3	1696.3	1696.3	1696.3
2.5°	1701.6	1697.6	1684.2	1697.6	1696.3
5°	1693.6	1690.9	1677.5	1689.6	1688.2
7.5°	1681.5	1678.8	1664.1	1676.2	1674.8
10°	1664.1	1661.4	1646.6	1657.4	1656.0
12.5°	1642.6	1637.2	1623.8	1631.9	1631.9
15°	1614.4	1610.4	1595.6	1602.3	1602.3
17.5°	1584.9	1578.2	1563.4	1571.5	1564.8
20°	1546.0	1543.3	1525.8	1535.2	1528.5
22.5°	1507.1	1501.7	1485.6	1491.0	1486.9
25°	1465.5	1458.7	1441.3	1444.0	1440.0
27.5°	1417.1	1413.1	1395.7	1397.0	1393.0
30°	1370.2	1366.1	1346.0	1343.3	1339.3
32.5°	1319.2	1312.5	1295.0	1289.7	1281.6
35°	1265.5	1260.1	1241.3	1234.6	1223.9
37.5°	1210.5	1203.8	1186.3	1176.9	1170.2
40°	1154.1	1147.4	1128.6	1116.5	1112.5
42.5°	1093.7	1088.4	1069.6	1058.8	1052.1
45°	1036.0	1030.7	1014.5	998.4	994.4
47.5°	972.9	974.3	954.2	938.1	928.7
50°	912.6	908.5	892.4	875.0	865.6
52.5°	850.8	848.1	830.7	815.9	805.2
55°	789.1	785.1	766.3	754.2	744.8
57.5°	723.3	722.0	705.9	689.8	685.8
60°	661.6	656.2	641.5	628.1	618.7
62.5°	597.2	593.2	581.1	566.3	559.6
65°	532.8	530.1	515.3	503.2	497.9
67.5°	469.7	464.3	453.6	442.9	440.2
70°	410.7	403.9	391.9	383.8	378.4
72.5°	346.2	342.2	335.5	326.1	320.7
75°	283.2	280.5	273.8	269.7	264.4
77.5°	224.1	222.8	218.7	216.1	212.0
80°	169.1	169.1	166.4	165.1	162.4
82.5°	120.8	118.1	118.1	115.4	115.4
85°	73.8	75.2	75.2	73.8	71.1
87.5°	36.2	36.2	34.9	34.9	32.2
90°	1.3	11.7	20.7	27.2	31.1
92.5°	24.6	13.0	20.7	27.2	28.5
95°	73.8	69.9	20.7	27.2	27.2
97.5°	138.6	146.4	23.3	25.9	27.2
100°	216.3	220.2	225.4	32.4	27.2
102.5°	295.3	300.5	303.1	305.7	196.9
105°	380.8	386.0	386.0	386.0	384.7
107.5°	468.9	468.9	471.5	472.8	467.6
110°	554.4	554.4	557.0	553.1	554.4

TEST NUMBER: P1034979

CATALOG NUMBER: S125DIW-B1090D1340UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	634.7	638.6	639.9	634.7	632.1
115°	715.0	721.5	722.8	717.6	709.8
117.5°	799.2	799.2	804.4	796.6	794.0
120°	876.9	875.6	879.5	876.9	870.4
122.5°	945.5	952.0	953.3	950.7	943.0
125°	1016.8	1025.9	1025.9	1020.7	1016.8
127.5°	1085.4	1091.9	1090.6	1088.0	1077.7
130°	1147.6	1154.1	1155.4	1151.5	1145.0
132.5°	1209.8	1217.6	1213.7	1213.7	1207.2
135°	1268.1	1275.8	1273.3	1270.7	1262.9
137.5°	1322.5	1330.2	1327.7	1327.7	1321.2
140°	1375.6	1378.2	1376.9	1379.5	1371.7
142.5°	1423.5	1424.8	1427.4	1427.4	1419.6
145°	1470.1	1472.7	1472.7	1474.0	1466.2
147.5°	1511.6	1511.6	1512.9	1514.2	1505.1
150°	1550.4	1547.9	1550.4	1553.0	1542.7
152.5°	1588.0	1581.5	1584.1	1586.7	1577.6
155°	1619.1	1611.3	1613.9	1617.8	1607.4
157.5°	1643.7	1639.8	1639.8	1643.7	1633.3
160°	1669.6	1661.8	1663.1	1668.3	1657.9
162.5°	1690.3	1682.6	1683.9	1691.6	1680.0
165°	1708.5	1700.7	1702.0	1709.8	1699.4
167.5°	1722.7	1714.9	1716.2	1725.3	1713.6
170°	1734.4	1725.3	1726.6	1737.0	1725.3
172.5°	1742.1	1733.1	1735.7	1744.7	1733.1
175°	1747.3	1739.6	1740.8	1751.2	1739.6
177.5°	1751.2	1743.4	1744.7	1753.8	1743.4
180°	1747.3	1747.3	1747.3	1747.3	1747.3

(END OF REPORT)