

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: P1035580

Luminaire Tested: S125DIW-B850D1340UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035580
REPORT IS A COMBINATION OF REPORTS P1004165 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1340UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

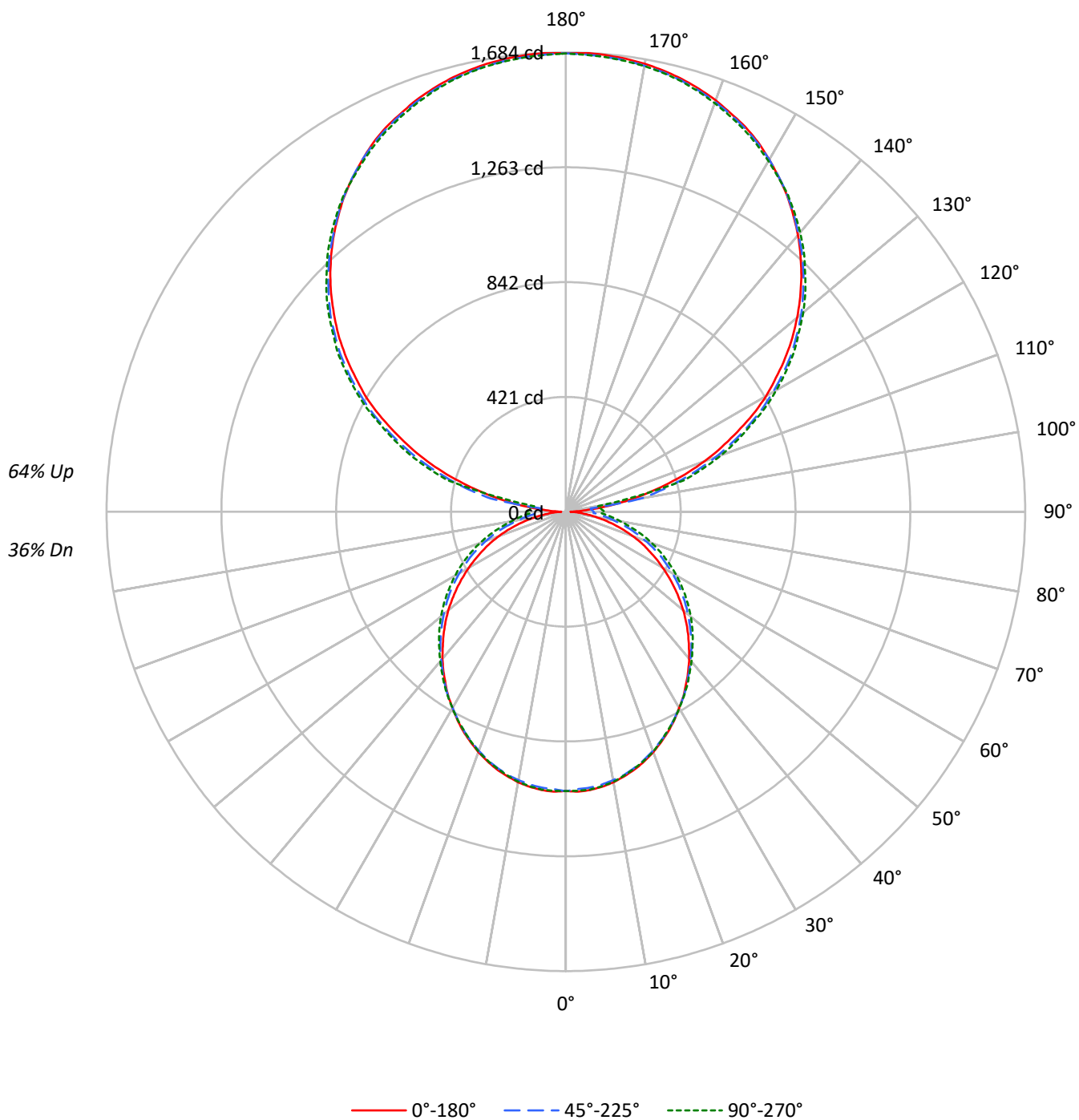
Lumens per Lamp: N/A
Luminaire Lumens: 8336.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 78
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: P1035580

CATALOG NUMBER: S125DIW-B850D1340UB50-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1035580

CATALOG NUMBER: S125DIW-B850D1340UB50-4F0-XX-W2A-D

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	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43
1	94	90	86	82	85	81	78	75	65	63	61	51	49	48	37	36	35
2	85	78	72	66	77	71	65	61	57	53	50	44	42	39	32	31	29
3	78	68	61	55	70	62	56	50	50	45	42	39	36	33	29	26	25
4	71	60	52	46	64	55	48	43	44	39	35	34	31	28	25	23	21
5	65	53	45	39	58	49	42	36	39	34	30	31	27	24	23	20	18
6	60	48	40	34	54	44	36	31	35	30	26	28	24	21	21	18	16
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	36	29	24	29	24	20	23	19	16	17	15	13
9	48	35	28	23	43	32	26	21	27	22	18	21	17	15	16	13	11
10	44	32	25	21	40	30	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6560	6560	6560
5°	6571	6423	6438
10°	6522	6292	6274
15°	6443	6139	6072
20°	6335	5955	5870
25°	6208	5760	5627
30°	6055	5546	5406
35°	5911	5349	5202
40°	5765	5142	4997
45°	5599	4962	4812
50°	5442	4767	4645
55°	5251	4580	4452
60°	5043	4368	4253
65°	4825	4145	4029
70°	4575	3845	3797
75°	4182	3549	3513
80°	3665	3190	3199
85°	3156	2904	3034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5599 cd/sqm

TEST NUMBER: P1035580

CATALOG NUMBER: S125DIW-B850D1340UB50-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.2
10°-20°	275.1	3.3
20°-30°	409.0	4.9
30°-40°	484.4	5.8
40°-50°	500.8	6.0
50°-60°	461.3	5.5
60°-70°	372.9	4.5
70°-80°	249.5	3.0
80°-90°	131.5	1.6
90°-100°	129.7	1.6
100°-110°	432.8	5.2
110°-120°	718.7	8.6
120°-130°	896.9	10.8
130°-140°	951.6	11.4
140°-150°	886.6	10.6
150°-160°	715.7	8.6
160°-170°	462.9	5.6
170°-180°	159.6	1.9
0°-30°	781.0	9.4
0°-40°	1265.4	15.2
0°-60°	2227.5	26.7
0°-90°	2981.5	35.8
90°-120°	1281.2	15.4
90°-150°	4016.3	48.2
90°-180°	5355.0	64.2
0°-180°	8336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1022	1015	1023	1022	97
15°	978	979	972	978	974	275
25°	888	891	885	889	884	409
35°	769	776	773	776	776	481
45°	633	644	650	656	658	489
55°	487	503	519	530	534	435
65°	335	358	382	398	402	333
75°	185	211	243	263	268	196
85°	55	88	124	146	154	58
90°	17	59	102	132	142	15
95°	84	106	93	122	129	97
105°	375	396	426	446	452	397
115°	694	707	734	747	746	688
125°	982	990	1010	1021	1022	877
135°	1221	1228	1232	1243	1240	942
145°	1415	1416	1416	1422	1419	885
155°	1557	1550	1552	1556	1546	717
165°	1643	1636	1637	1644	1634	464
175°	1680	1673	1674	1684	1673	160
180°	1680	1680	1680	1680	1680	

TEST NUMBER: P1035580

CATALOG NUMBER: S125DIW-B850D1340UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1027.0	1024.9	1017.9	1024.9	1023.9
5°	1023.9	1021.9	1014.9	1022.9	1021.9
7.5°	1016.9	1015.9	1008.9	1015.9	1014.9
10°	1006.9	1006.9	998.8	1005.9	1004.9
12.5°	992.8	993.8	987.8	992.8	989.8
15°	977.8	978.8	971.7	977.8	973.8
17.5°	958.7	960.7	953.7	958.7	955.7
20°	937.6	939.6	932.6	935.6	935.6
22.5°	913.5	917.5	909.5	913.5	910.5
25°	888.4	891.4	885.4	889.4	884.4
27.5°	861.3	865.3	858.3	861.3	859.3
30°	830.2	836.2	830.2	832.2	831.2
32.5°	802.1	807.1	803.1	805.1	804.1
35°	769.0	776.0	773.0	776.0	776.0
37.5°	736.8	742.9	741.9	745.9	744.9
40°	703.7	711.7	710.7	714.8	716.8
42.5°	667.6	678.6	681.6	686.6	686.6
45°	633.4	644.5	649.5	656.5	657.5
47.5°	598.3	608.3	616.4	626.4	628.4
50°	562.2	573.2	584.3	595.3	598.3
52.5°	524.0	538.1	552.1	564.2	566.2
55°	486.9	502.9	519.0	530.0	534.1
57.5°	448.7	467.8	485.9	497.9	500.9
60°	410.6	430.7	450.7	465.8	468.8
62.5°	373.4	393.5	415.6	432.7	436.7
65°	335.3	358.4	382.5	397.5	401.5
67.5°	300.2	322.2	346.3	364.4	369.4
70°	261.0	284.1	310.2	329.3	335.3
72.5°	222.9	247.0	276.1	297.1	301.2
75°	184.7	210.8	242.9	263.0	268.0
77.5°	147.6	177.7	207.8	229.9	233.9
80°	113.4	143.6	177.7	199.8	203.8
82.5°	82.3	114.4	149.6	170.7	178.7
85°	55.2	88.3	123.5	145.6	153.6
87.5°	35.1	67.3	101.4	124.5	131.5
90°	17.3	59.4	102.2	131.6	142.3
92.5°	37.8	55.7	98.2	126.6	134.8
95°	84.1	106.5	93.2	121.6	128.6
97.5°	145.3	176.9	91.7	115.2	123.6
100°	219.0	243.8	280.9	116.4	117.6
102.5°	294.0	318.1	351.7	374.3	275.6
105°	375.2	396.3	426.4	446.5	452.2
107.5°	458.9	473.0	504.6	525.9	527.0
110°	540.1	552.2	582.8	598.2	606.4

TEST NUMBER: P1035580

CATALOG NUMBER: S125DIW-B850D1340UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	617.3	630.2	658.5	671.5	676.1
115°	693.6	706.9	734.2	747.3	745.8
117.5°	773.5	778.5	808.6	818.2	822.7
120°	848.3	850.0	876.9	891.5	891.2
122.5°	913.3	920.5	943.9	957.5	956.0
125°	981.8	989.5	1009.6	1020.7	1022.0
127.5°	1046.8	1052.0	1067.9	1080.4	1076.5
130°	1106.6	1111.8	1127.2	1137.4	1136.2
132.5°	1165.4	1172.8	1179.1	1193.2	1191.0
135°	1221.4	1227.9	1232.4	1243.0	1240.5
137.5°	1273.7	1280.2	1281.7	1293.8	1291.6
140°	1323.8	1326.3	1326.1	1339.6	1336.2
142.5°	1369.9	1370.1	1372.6	1381.6	1378.3
145°	1414.7	1416.2	1416.2	1422.5	1419.0
147.5°	1453.6	1453.6	1454.8	1458.1	1451.4
150°	1491.0	1488.5	1491.0	1493.5	1484.5
152.5°	1527.1	1520.9	1523.4	1525.8	1517.1
155°	1557.0	1549.5	1552.0	1555.7	1545.8
157.5°	1580.6	1576.9	1576.9	1580.6	1570.7
160°	1605.6	1598.1	1599.3	1604.3	1594.3
162.5°	1625.5	1618.0	1619.3	1626.7	1615.5
165°	1642.9	1635.5	1636.7	1644.2	1634.2
167.5°	1656.6	1649.2	1650.4	1659.1	1647.9
170°	1667.8	1659.1	1660.4	1670.3	1659.1
172.5°	1675.3	1666.6	1669.1	1677.8	1666.6
175°	1680.3	1672.8	1674.1	1684.0	1672.8
177.5°	1684.0	1676.6	1677.8	1686.5	1676.6
180°	1680.3	1680.3	1680.3	1680.3	1680.3

(END OF REPORT)