

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: P1035566

Luminaire Tested: S125DIW-B850D1340UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035566
REPORT IS A COMBINATION OF REPORTS P1004139 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1340UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

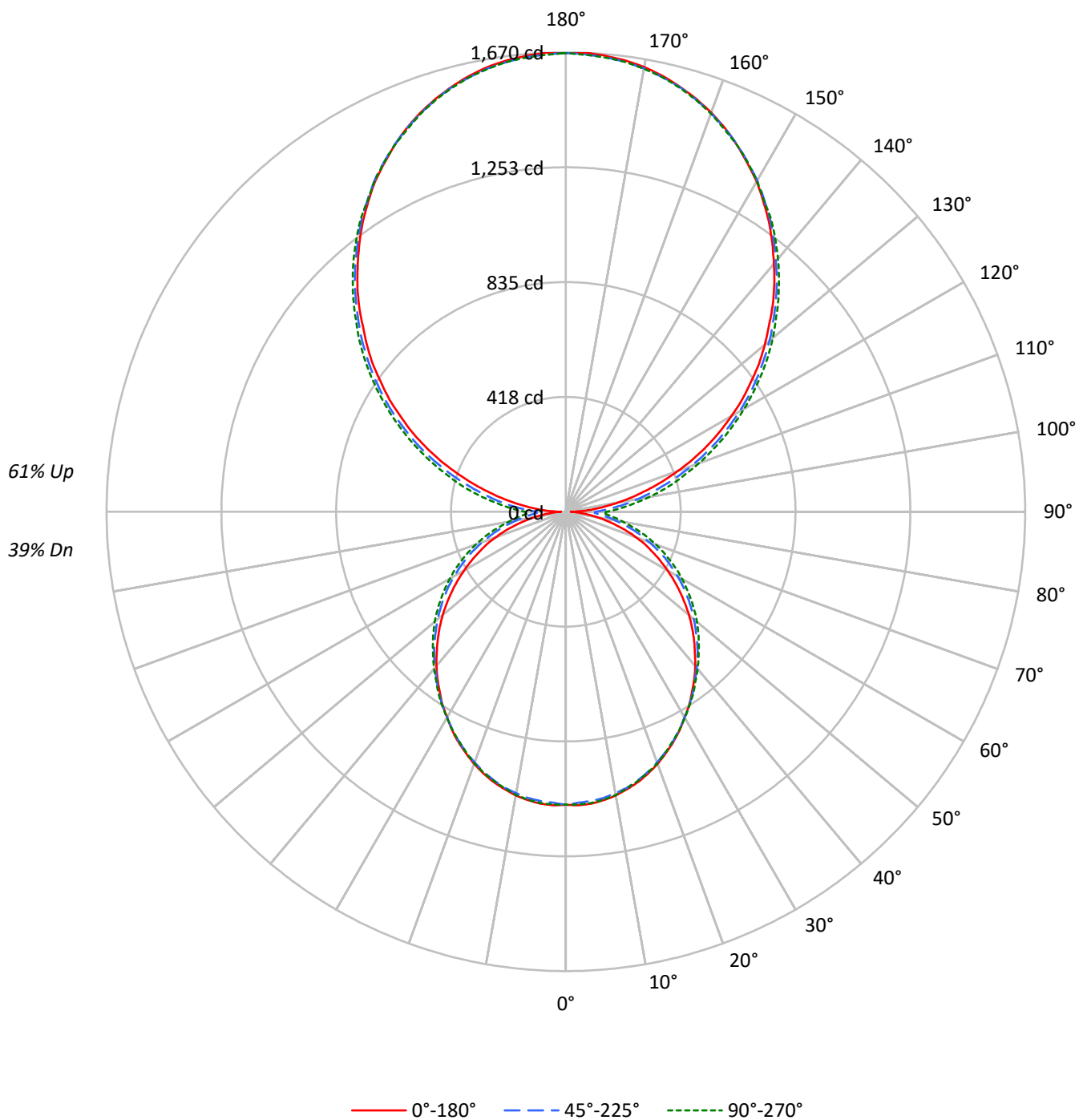
Lumens per Lamp: N/A
Luminaire Lumens: 7956.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1035566

CATALOG NUMBER: S125DIW-B850D1340UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1035566

CATALOG NUMBER: S125DIW-B850D1340UB30-4F0-XX-W2A-D1

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	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46			39
1	95	90	86	83	86	82	79	75	67	64	62	53	51	49	40	39	38			32
2	86	78	72	67	78	71	66	61	58	54	51	46	43	41	35	33	31			26
3	78	69	61	55	71	63	56	51	51	46	43	40	37	34	30	28	26			22
4	71	61	53	47	65	55	48	43	45	40	36	36	32	29	27	25	23			19
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20			16
6	60	48	40	34	54	44	37	32	36	31	27	29	25	22	22	19	17			14
7	56	43	35	30	50	40	33	28	33	27	23	26	22	19	20	17	15			12
8	52	39	32	26	47	36	29	24	30	24	21	24	20	17	18	16	14			11
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12			10
10	45	33	26	21	41	30	24	19	25	20	17	20	16	14	16	13	11			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6823	6823	6823
5°	6834	6680	6697
10°	6783	6544	6525
15°	6700	6385	6315
20°	6589	6194	6106
25°	6457	5991	5853
30°	6297	5768	5623
35°	6147	5563	5411
40°	5996	5348	5197
45°	5824	5161	5005
50°	5659	4957	4832
55°	5462	4764	4630
60°	5245	4543	4424
65°	5017	4311	4191
70°	4759	3999	3949
75°	4350	3692	3654
80°	3813	3318	3327
85°	3282	3019	3155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5824 cd/sqm

TEST NUMBER: P1035566

CATALOG NUMBER: S125DIW-B850D1340UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.3
10°-20°	286.1	3.6
20°-30°	425.4	5.3
30°-40°	503.8	6.3
40°-50°	520.9	6.5
50°-60°	479.8	6.0
60°-70°	387.9	4.9
70°-80°	259.5	3.3
80°-90°	136.8	1.7
90°-100°	186.4	2.3
100°-110°	385.2	4.8
110°-120°	596.0	7.5
120°-130°	756.7	9.5
130°-140°	833.5	10.5
140°-150°	809.7	10.2
150°-160°	678.6	8.5
160°-170°	451.1	5.7
170°-180°	157.9	2.0
0°-30°	812.3	10.2
0°-40°	1316.1	16.5
0°-60°	2316.7	29.1
0°-90°	3100.9	39.0
90°-120°	1167.6	14.7
90°-150°	3567.5	44.8
90°-180°	4855.0	61.0
0°-180°	7956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1065	1063	1056	1064	1063	101
15°	1017	1018	1011	1017	1013	287
25°	924	927	921	925	920	425
35°	800	807	804	807	807	501
45°	659	670	676	683	684	508
55°	506	523	540	551	555	453
65°	349	373	398	413	418	346
75°	192	219	253	274	279	204
85°	57	92	128	151	160	60
90°	18	62	106	137	148	17
95°	98	128	176	208	218	99
105°	305	328	368	396	408	325
115°	566	578	608	625	630	560
125°	820	827	849	864	867	735
135°	1064	1070	1079	1093	1093	820
145°	1287	1291	1295	1300	1301	804
155°	1472	1472	1473	1478	1472	678
165°	1600	1598	1599	1604	1596	452
175°	1664	1659	1659	1666	1657	158
180°	1668	1668	1668	1668	1668	

TEST NUMBER: P1035566

CATALOG NUMBER: S125DIW-B850D1340UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1068.1	1066.0	1058.7	1066.0	1064.9
5°	1064.9	1062.9	1055.5	1063.9	1062.9
7.5°	1057.6	1056.6	1049.3	1056.6	1055.5
10°	1047.2	1047.2	1038.8	1046.1	1045.1
12.5°	1032.6	1033.6	1027.4	1032.6	1029.4
15°	1016.9	1018.0	1010.6	1016.9	1012.7
17.5°	997.1	999.2	991.9	997.1	993.9
20°	975.2	977.2	969.9	973.1	973.1
22.5°	950.1	954.3	945.9	950.1	947.0
25°	924.0	927.1	920.9	925.0	919.8
27.5°	895.8	900.0	892.7	895.8	893.7
30°	863.4	869.7	863.4	865.5	864.5
32.5°	834.2	839.4	835.2	837.3	836.3
35°	799.7	807.1	803.9	807.1	807.1
37.5°	766.3	772.6	771.6	775.7	774.7
40°	731.9	740.2	739.2	743.4	745.5
42.5°	694.3	705.8	708.9	714.1	714.1
45°	658.8	670.3	675.5	682.8	683.9
47.5°	622.3	632.7	641.1	651.5	653.6
50°	584.7	596.2	607.6	619.1	622.3
52.5°	545.0	559.6	574.2	586.8	588.8
55°	506.4	523.1	539.8	551.3	555.4
57.5°	466.7	486.5	505.3	517.9	521.0
60°	427.0	447.9	468.8	484.4	487.6
62.5°	388.4	409.3	432.2	450.0	454.2
65°	348.7	372.7	397.8	413.4	417.6
67.5°	312.2	335.1	360.2	379.0	384.2
70°	271.5	295.5	322.6	342.5	348.7
72.5°	231.8	256.8	287.1	309.0	313.2
75°	192.1	219.3	252.7	273.5	278.8
77.5°	153.5	184.8	216.1	239.1	243.3
80°	118.0	149.3	184.8	207.8	211.9
82.5°	85.6	119.0	155.6	177.5	185.8
85°	57.4	91.9	128.4	151.4	159.7
87.5°	36.5	70.0	105.5	129.5	136.8
90°	18.0	61.8	106.4	136.9	148.0
92.5°	53.5	90.3	138.5	170.6	180.5
95°	98.0	127.7	176.1	208.2	218.1
97.5°	142.3	168.7	221.2	251.0	259.6
100°	193.2	215.1	265.4	298.9	307.8
102.5°	247.9	274.3	313.1	347.0	357.2
105°	305.3	328.5	367.6	396.3	407.5
107.5°	367.9	389.0	425.7	450.5	456.8
110°	433.0	452.0	485.2	508.9	514.9

TEST NUMBER: P1035566

CATALOG NUMBER: S125DIW-B850D1340UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	500.5	512.5	545.9	566.0	570.7
115°	565.7	578.2	607.8	625.3	630.4
117.5°	632.0	638.5	667.2	686.3	688.4
120°	694.3	704.0	729.3	747.0	748.1
122.5°	760.8	763.1	790.0	805.4	807.8
125°	820.5	827.2	849.4	863.5	867.4
127.5°	885.6	888.5	907.5	921.9	925.6
130°	944.0	949.5	966.7	980.0	982.6
132.5°	1001.4	1013.1	1022.2	1035.5	1035.8
135°	1063.7	1070.4	1079.1	1092.6	1092.6
137.5°	1122.1	1128.8	1135.6	1149.4	1147.1
140°	1176.8	1183.3	1188.3	1202.4	1200.0
142.5°	1232.6	1236.8	1242.0	1252.7	1250.4
145°	1287.1	1291.3	1295.2	1300.4	1300.7
147.5°	1336.8	1340.6	1343.2	1349.2	1341.0
150°	1387.4	1386.1	1391.3	1391.3	1389.7
152.5°	1428.9	1431.5	1432.8	1436.7	1431.5
155°	1471.7	1471.7	1473.0	1478.2	1471.7
157.5°	1510.7	1508.1	1509.4	1514.6	1505.5
160°	1544.4	1540.5	1541.8	1547.0	1540.5
162.5°	1574.3	1571.7	1571.7	1578.1	1570.4
165°	1600.2	1597.6	1598.9	1604.1	1596.3
167.5°	1623.6	1618.4	1618.4	1626.2	1618.4
170°	1641.7	1636.5	1636.5	1644.3	1635.3
172.5°	1654.7	1649.5	1649.5	1657.3	1649.5
175°	1663.8	1658.6	1658.6	1666.4	1657.3
177.5°	1670.3	1665.1	1663.8	1671.6	1662.5
180°	1667.7	1667.7	1667.7	1667.7	1667.7

(END OF REPORT)