

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: P1035581

Luminaire Tested: S125DIW-B850D1340UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035581
REPORT IS A COMBINATION OF REPORTS P1004166 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-D1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

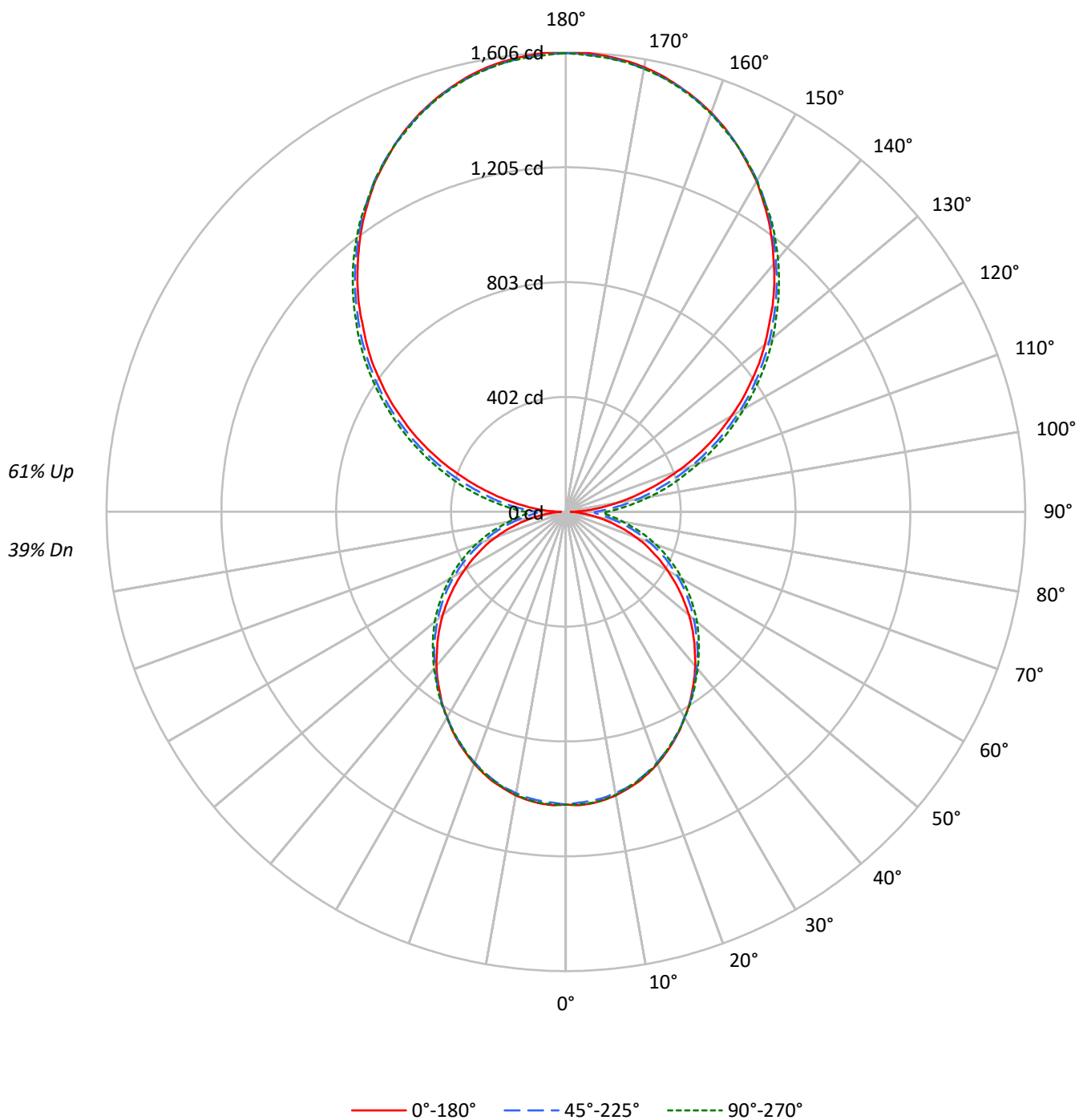
Lumens per Lamp: N/A
Luminaire Lumens: 7650.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1035581

CATALOG NUMBER: S125DIW-B850D1340UB50-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1035581

CATALOG NUMBER: S125DIW-B850D1340UB50-4F0-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
RCR																	
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	90	86	83	86	82	79	75	67	64	62	53	51	49	40	39	38
2	86	78	72	67	78	71	66	61	58	54	51	46	43	41	35	33	31
3	78	69	61	55	71	63	56	51	51	46	43	40	37	34	30	28	26
4	71	61	53	47	65	55	48	43	45	40	36	36	32	29	27	25	23
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20
6	60	48	40	34	54	44	37	32	36	31	27	29	25	22	22	19	17
7	56	43	35	30	50	40	33	28	33	27	23	26	22	19	20	17	15
8	52	39	32	26	47	36	29	24	30	24	21	24	20	17	18	16	14
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12
10	45	33	26	21	41	30	24	19	25	20	17	20	16	14	16	13	11

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: P1035581

CATALOG NUMBER: S125DIW-B850D1340UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.3
10°-20°	275.1	3.6
20°-30°	409.0	5.3
30°-40°	484.4	6.3
40°-50°	500.8	6.5
50°-60°	461.3	6.0
60°-70°	372.9	4.9
70°-80°	249.5	3.3
80°-90°	131.5	1.7
90°-100°	179.3	2.3
100°-110°	370.3	4.8
110°-120°	573.1	7.5
120°-130°	727.6	9.5
130°-140°	801.4	10.5
140°-150°	778.6	10.2
150°-160°	652.5	8.5
160°-170°	433.8	5.7
170°-180°	151.8	2.0
0°-30°	781.0	10.2
0°-40°	1265.4	16.5
0°-60°	2227.5	29.1
0°-90°	2981.5	39.0
90°-120°	1122.7	14.7
90°-150°	3430.4	44.8
90°-180°	4668.0	61.0
0°-180°	7650.0	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	17
95°	94	123	169	200	210	95
105°	294	316	354	381	392	313
115°	544	556	584	601	606	538
125°	789	795	817	830	834	707
135°	1023	1029	1038	1051	1051	788
145°	1238	1242	1245	1250	1251	774
155°	1415	1415	1416	1421	1415	652
165°	1539	1536	1538	1542	1535	434
175°	1600	1595	1595	1602	1594	152
180°	1604	1604	1604	1604	1604	

TEST NUMBER: P1035581

CATALOG NUMBER: S125DIW-B850D1340UB50-4F0-XX-W2A-D1

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	102.3	131.6	142.4
92.5°	51.5	86.9	133.2	164.0	173.5
95°	94.2	122.8	169.4	200.2	209.7
97.5°	136.8	162.1	212.8	241.3	249.6
100°	185.7	206.8	255.1	287.5	296.1
102.5°	238.4	263.7	301.1	333.6	343.4
105°	293.5	315.9	353.5	381.0	391.8
107.5°	353.7	374.0	409.4	433.2	439.2
110°	416.3	434.7	466.5	489.3	495.1

TEST NUMBER: P1035581

CATALOG NUMBER: S125DIW-B850D1340UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	481.2	492.8	524.9	544.2	548.8
115°	543.9	556.0	584.5	601.3	606.1
117.5°	607.8	614.0	641.6	659.9	662.0
120°	667.7	676.9	701.2	718.3	719.3
122.5°	731.5	733.8	759.6	774.5	776.7
125°	789.0	795.4	816.8	830.4	834.1
127.5°	851.6	854.3	872.7	886.4	890.0
130°	907.8	913.0	929.6	942.3	944.8
132.5°	962.9	974.1	982.9	995.7	996.0
135°	1022.8	1029.3	1037.5	1050.6	1050.7
137.5°	1079.0	1085.5	1092.0	1105.3	1103.1
140°	1131.6	1137.9	1142.6	1156.2	1154.0
142.5°	1185.3	1189.3	1194.3	1204.5	1202.4
145°	1237.7	1241.7	1245.4	1250.4	1250.7
147.5°	1285.4	1289.1	1291.6	1297.4	1289.4
150°	1334.0	1332.8	1337.8	1337.8	1336.3
152.5°	1374.0	1376.5	1377.7	1381.5	1376.5
155°	1415.2	1415.2	1416.4	1421.4	1415.2
157.5°	1452.6	1450.1	1451.3	1456.3	1447.6
160°	1485.0	1481.3	1482.5	1487.5	1481.3
162.5°	1513.7	1511.2	1511.2	1517.5	1510.0
165°	1538.7	1536.2	1537.5	1542.4	1535.0
167.5°	1561.2	1556.2	1556.2	1563.7	1556.2
170°	1578.6	1573.6	1573.6	1581.1	1572.4
172.5°	1591.1	1586.1	1586.1	1593.6	1586.1
175°	1599.9	1594.9	1594.9	1602.3	1593.6
177.5°	1606.1	1601.1	1599.9	1607.3	1598.6
180°	1603.6	1603.6	1603.6	1603.6	1603.6

(END OF REPORT)