

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: P1034993

Luminaire Tested: S125DIW-B1090D1340UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034993
REPORT IS A COMBINATION OF REPORTS P1002846 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1340UB50-4F0-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

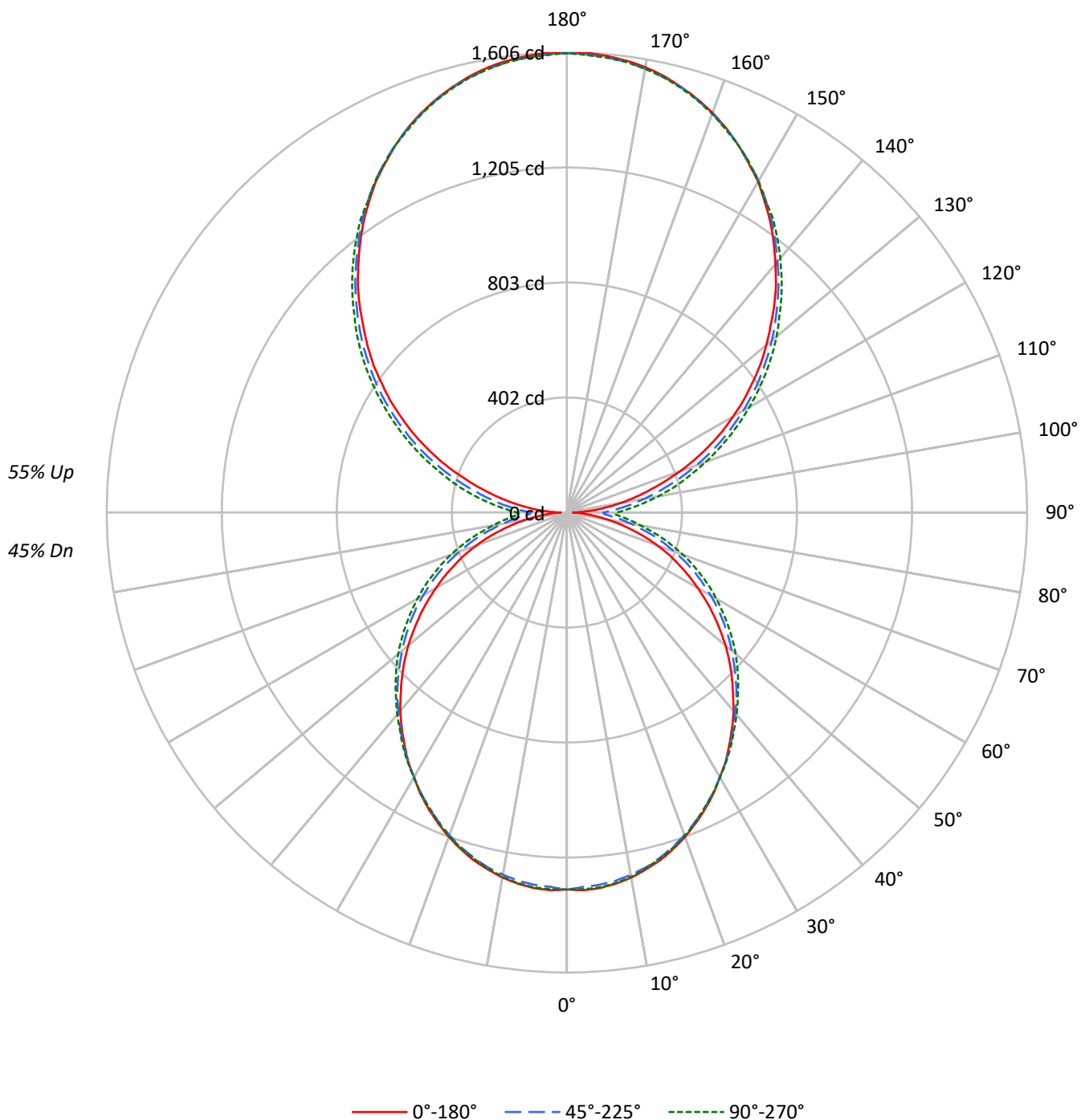
Lumens per Lamp: N/A
Luminaire Lumens: 8555.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1034993

CATALOG NUMBER: S125DIW-B1090D1340UB50-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1034993

CATALOG NUMBER: S125DIW-B1090D1340UB50-4F0-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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	84	88	84	80	77	69	67	65	56	55	53	44	43	42
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	39	37	35
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	29
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	27	25
5	66	55	46	40	60	50	43	38	42	36	32	34	30	27	27	24	22
6	61	49	41	35	56	45	38	32	38	32	28	31	27	23	25	22	19
7	56	44	36	30	51	41	33	28	34	29	24	28	24	21	22	19	17
8	52	40	32	27	48	37	30	25	31	26	22	26	21	18	21	17	15
9	49	36	29	24	44	34	27	22	28	23	19	24	19	16	19	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8432	8432	8432
5°	8446	8256	8275
10°	8382	8087	8064
15°	8280	7891	7804
20°	8143	7655	7545
25°	7980	7403	7233
30°	7782	7129	6949
35°	7598	6875	6687
40°	7410	6609	6423
45°	7198	6378	6185
50°	6994	6126	5971
55°	6749	5888	5722
60°	6481	5614	5467
65°	6202	5327	5180
70°	5881	4943	4881
75°	5375	4562	4516
80°	4712	4101	4112
85°	4059	3732	3899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7198 cd/sqm

TEST NUMBER: P1034993

CATALOG NUMBER: S125DIW-B1090D1340UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.5
10°-20°	353.5	4.1
20°-30°	525.7	6.1
30°-40°	622.6	7.3
40°-50°	643.7	7.5
50°-60°	593.0	6.9
60°-70°	479.3	5.6
70°-80°	320.7	3.7
80°-90°	168.3	2.0
90°-100°	200.0	2.3
100°-110°	385.6	4.5
110°-120°	583.3	6.8
120°-130°	733.4	8.6
130°-140°	804.0	9.4
140°-150°	779.1	9.1
150°-160°	652.5	7.6
160°-170°	433.8	5.1
170°-180°	151.8	1.8
0°-30°	1003.8	11.7
0°-40°	1626.4	19.0
0°-60°	2863.1	33.5
0°-90°	3831.4	44.8
90°-120°	1169.0	13.7
90°-150°	3485.5	40.7
90°-180°	4724.0	55.2
0°-180°	8555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1316	1314	1304	1315	1314	125
15°	1257	1258	1249	1257	1252	354
25°	1142	1146	1138	1143	1137	526
35°	988	997	994	997	997	619
45°	814	828	835	844	845	628
55°	626	646	667	681	686	559
65°	431	461	492	511	516	428
75°	237	271	312	338	344	252
85°	71	114	159	187	197	74
90°	22	73	126	162	174	20
95°	98	134	190	227	239	98
105°	296	323	369	402	415	316
115°	546	560	596	618	624	540
125°	790	796	823	842	847	708
135°	1023	1030	1040	1057	1058	789
145°	1238	1242	1245	1252	1253	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: P1034993

CATALOG NUMBER: S125DIW-B1090D1340UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1320.0	1317.4	1308.3	1317.4	1316.1
5°	1316.1	1313.5	1304.5	1314.8	1313.5
7.5°	1307.1	1305.8	1296.7	1305.8	1304.5
10°	1294.1	1294.1	1283.8	1292.9	1291.6
12.5°	1276.1	1277.4	1269.6	1276.1	1272.2
15°	1256.7	1258.0	1249.0	1256.7	1251.6
17.5°	1232.2	1234.8	1225.8	1232.2	1228.3
20°	1205.1	1207.7	1198.7	1202.5	1202.5
22.5°	1174.2	1179.3	1169.0	1174.2	1170.3
25°	1141.9	1145.8	1138.0	1143.2	1136.7
27.5°	1107.1	1112.2	1103.2	1107.1	1104.5
30°	1067.1	1074.8	1067.1	1069.6	1068.4
32.5°	1030.9	1037.4	1032.2	1034.8	1033.5
35°	988.4	997.4	993.5	997.4	997.4
37.5°	947.1	954.8	953.5	958.7	957.4
40°	904.5	914.8	913.5	918.7	921.3
42.5°	858.0	872.2	876.1	882.6	882.6
45°	814.2	828.4	834.8	843.8	845.1
47.5°	769.0	781.9	792.2	805.1	807.7
50°	722.6	736.7	750.9	765.1	769.0
52.5°	673.5	691.6	709.7	725.1	727.7
55°	625.8	646.4	667.1	681.3	686.4
57.5°	576.8	601.3	624.5	640.0	643.8
60°	527.7	553.5	579.3	598.7	602.6
62.5°	480.0	505.8	534.2	556.1	561.3
65°	431.0	460.6	491.6	511.0	516.1
67.5°	385.8	414.2	445.1	468.4	474.8
70°	335.5	365.1	398.7	423.2	431.0
72.5°	286.4	317.4	354.8	381.9	387.1
75°	237.4	271.0	312.2	338.1	344.5
77.5°	189.7	228.4	267.1	295.5	300.6
80°	145.8	184.5	228.4	256.8	261.9
82.5°	105.8	147.1	192.3	219.3	229.7
85°	71.0	113.5	158.7	187.1	197.4
87.5°	45.2	86.4	130.3	160.0	169.0
90°	21.8	73.1	125.8	161.7	174.5
92.5°	55.5	99.2	155.5	192.6	204.2
95°	97.9	133.9	190.3	227.4	238.9
97.5°	140.3	172.5	232.5	267.1	277.4
100°	188.9	216.0	273.5	311.9	322.1
102.5°	241.3	272.0	318.3	356.5	368.1
105°	296.1	323.1	369.3	402.5	415.3
107.5°	356.0	380.3	424.0	453.5	461.3
110°	418.3	440.1	479.9	508.2	516.0

TEST NUMBER: P1034993

CATALOG NUMBER: S125DIW-B1090D1340UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	483.2	497.3	537.2	561.7	568.2
115°	545.6	559.7	595.6	617.6	624.2
117.5°	609.3	616.9	651.7	674.8	678.9
120°	669.2	679.2	710.1	732.0	734.8
122.5°	732.7	735.3	767.3	786.8	790.7
125°	790.2	796.3	823.4	841.5	846.7
127.5°	852.5	854.9	878.1	896.2	901.4
130°	908.7	913.6	934.1	950.9	954.9
132.5°	963.5	974.7	986.4	1003.1	1004.6
135°	1023.4	1029.6	1039.8	1056.6	1058.1
137.5°	1079.6	1085.8	1093.5	1110.1	1109.1
140°	1131.9	1138.2	1143.2	1159.9	1158.8
142.5°	1185.6	1189.3	1194.3	1207.1	1206.1
145°	1238.0	1241.7	1245.4	1251.9	1253.3
147.5°	1285.4	1289.1	1291.6	1298.0	1290.6
150°	1334.0	1332.8	1337.8	1337.8	1336.6
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)