

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: P1034965

Luminaire Tested: S125DIW-B1090D1050UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034965
REPORT IS A COMBINATION OF REPORTS P1002779 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1050UB50-4F0-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

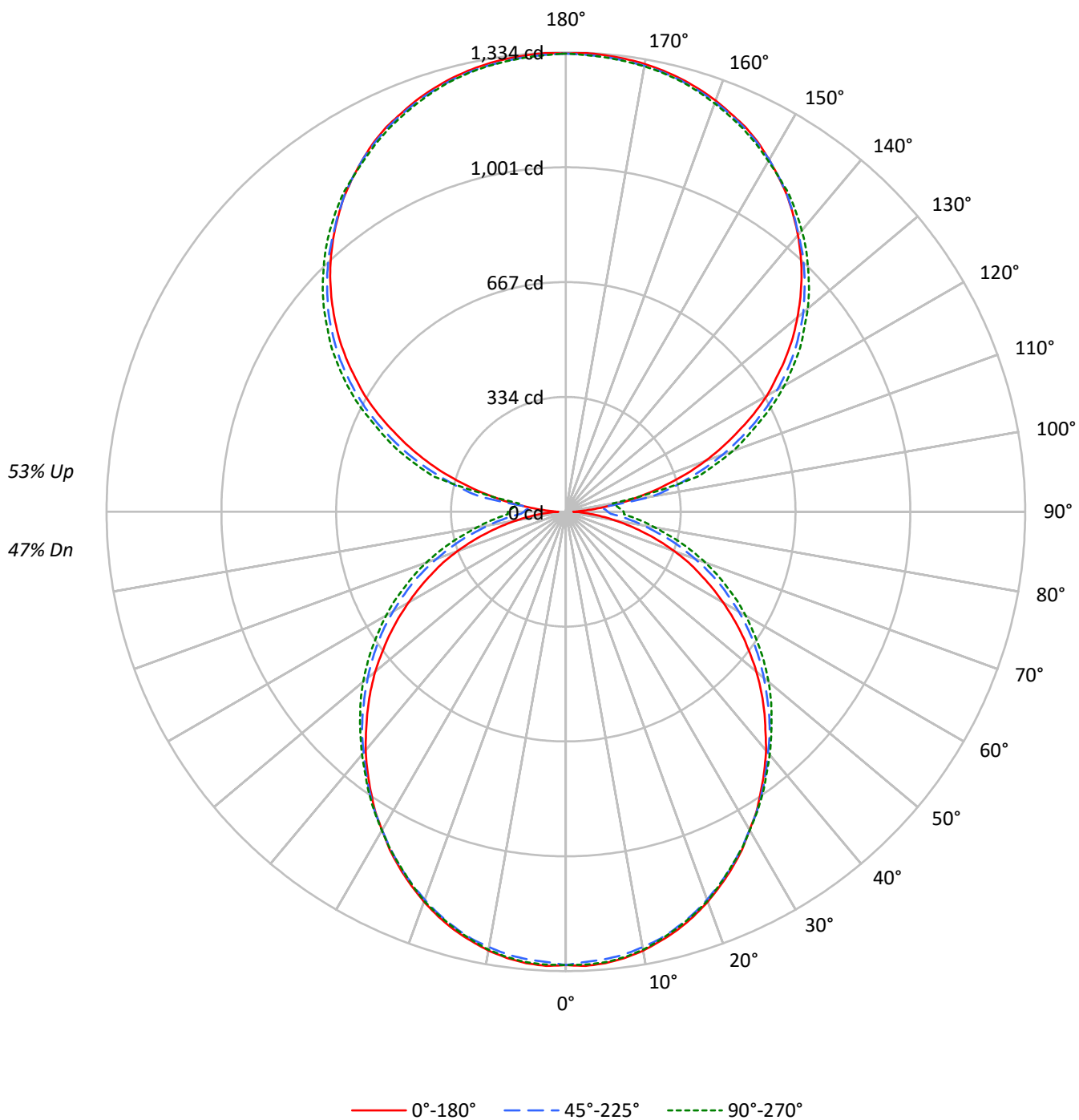
Lumens per Lamp: N/A
Luminaire Lumens: 8166.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
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: P1034965

CATALOG NUMBER: S125DIW-B1090D1050UB50-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1034965

CATALOG NUMBER: S125DIW-B1090D1050UB50-4F0-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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53
1	96	92	88	84	88	84	81	78	70	68	66	58	56	54	46	45	44
2	87	80	73	68	80	73	68	63	61	57	54	50	47	45	40	38	36
3	80	70	62	56	73	64	58	52	54	49	45	44	41	38	35	33	30
4	73	62	54	47	66	57	50	44	48	42	38	39	35	32	31	28	26
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	28	25	23
6	61	49	41	35	56	45	38	33	38	33	28	32	27	24	26	22	20
7	57	44	36	31	52	41	34	29	35	29	25	29	24	21	23	20	18
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	21	18	16
9	49	37	29	24	45	34	27	22	29	23	20	24	20	17	20	16	14
10	46	33	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13

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: P1034965

CATALOG NUMBER: S125DIW-B1090D1050UB50-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.5
10°-20°	353.5	4.3
20°-30°	525.7	6.4
30°-40°	622.6	7.6
40°-50°	643.7	7.9
50°-60°	593.0	7.3
60°-70°	479.3	5.9
70°-80°	320.7	3.9
80°-90°	167.8	2.1
90°-100°	138.6	1.7
100°-110°	369.1	4.5
110°-120°	586.8	7.2
120°-130°	720.2	8.8
130°-140°	757.9	9.3
140°-150°	702.9	8.6
150°-160°	566.7	6.9
160°-170°	366.5	4.5
170°-180°	126.4	1.5
0°-30°	1003.8	12.3
0°-40°	1626.4	19.9
0°-60°	2863.1	35.1
0°-90°	3830.9	46.9
90°-120°	1094.5	13.4
90°-150°	3275.5	40.1
90°-180°	4335.0	53.1
0°-180°	8166.0	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	71	122	156	168	17
95°	73	104	110	143	152	82
105°	302	326	365	391	399	319
115°	552	566	601	620	622	547
125°	779	785	811	828	831	696
135°	968	973	980	995	995	746
145°	1121	1121	1121	1129	1128	701
155°	1233	1227	1229	1232	1224	568
165°	1301	1295	1296	1302	1294	367
175°	1330	1325	1326	1334	1325	127
180°	1330	1330	1330	1330	1330	

TEST NUMBER: P1034965

CATALOG NUMBER: S125DIW-B1090D1050UB50-4F0-XX-W2A-D

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°	21.6	70.8	121.6	156.2	168.2
92.5°	36.8	65.4	116.4	149.7	159.8
95°	73.0	103.6	110.0	143.3	152.3
97.5°	121.0	158.0	106.8	135.8	145.9
100°	178.9	209.0	254.2	134.4	138.1
102.5°	237.8	266.2	308.2	336.0	260.9
105°	301.6	326.2	364.9	390.7	398.7
107.5°	367.3	385.4	424.8	451.6	455.5
110°	431.1	446.6	484.7	506.3	516.3

TEST NUMBER: P1034965

CATALOG NUMBER: S125DIW-B1090D1050UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.3	506.8	542.7	562.0	569.0
115°	552.1	566.2	600.6	619.9	621.8
117.5°	615.0	621.4	657.7	673.7	680.7
120°	674.2	677.0	709.7	729.6	732.5
122.5°	725.2	731.4	760.7	779.4	781.2
125°	779.4	785.0	810.8	827.5	831.0
127.5°	830.4	834.0	855.0	872.4	872.2
130°	877.8	881.4	900.4	915.5	917.1
132.5°	923.8	929.7	939.7	957.7	957.9
135°	968.2	972.8	979.8	994.6	995.1
137.5°	1009.6	1014.2	1017.4	1032.8	1033.1
140°	1048.7	1050.7	1051.0	1067.2	1066.4
142.5°	1085.2	1084.9	1086.9	1098.5	1097.8
145°	1120.7	1121.4	1121.4	1128.9	1128.1
147.5°	1151.0	1151.0	1152.0	1155.6	1151.3
150°	1180.6	1178.6	1180.6	1182.6	1176.0
152.5°	1209.2	1204.3	1206.2	1208.2	1201.3
155°	1232.9	1226.9	1228.9	1231.9	1224.0
157.5°	1251.6	1248.6	1248.6	1251.6	1243.7
160°	1271.3	1265.4	1266.4	1270.3	1262.4
162.5°	1287.1	1281.2	1282.2	1288.1	1279.2
165°	1300.9	1295.0	1296.0	1301.9	1294.0
167.5°	1311.8	1305.8	1306.8	1313.7	1304.9
170°	1320.6	1313.7	1314.7	1322.6	1313.7
172.5°	1326.6	1319.7	1321.6	1328.5	1319.7
175°	1330.5	1324.6	1325.6	1333.5	1324.6
177.5°	1333.5	1327.5	1328.5	1335.4	1327.5
180°	1330.5	1330.5	1330.5	1330.5	1330.5

(END OF REPORT)