

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: P1034942

Luminaire Tested: S125DIW-B1090D1050UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034942
REPORT IS A COMBINATION OF REPORTS P1002723 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1050UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

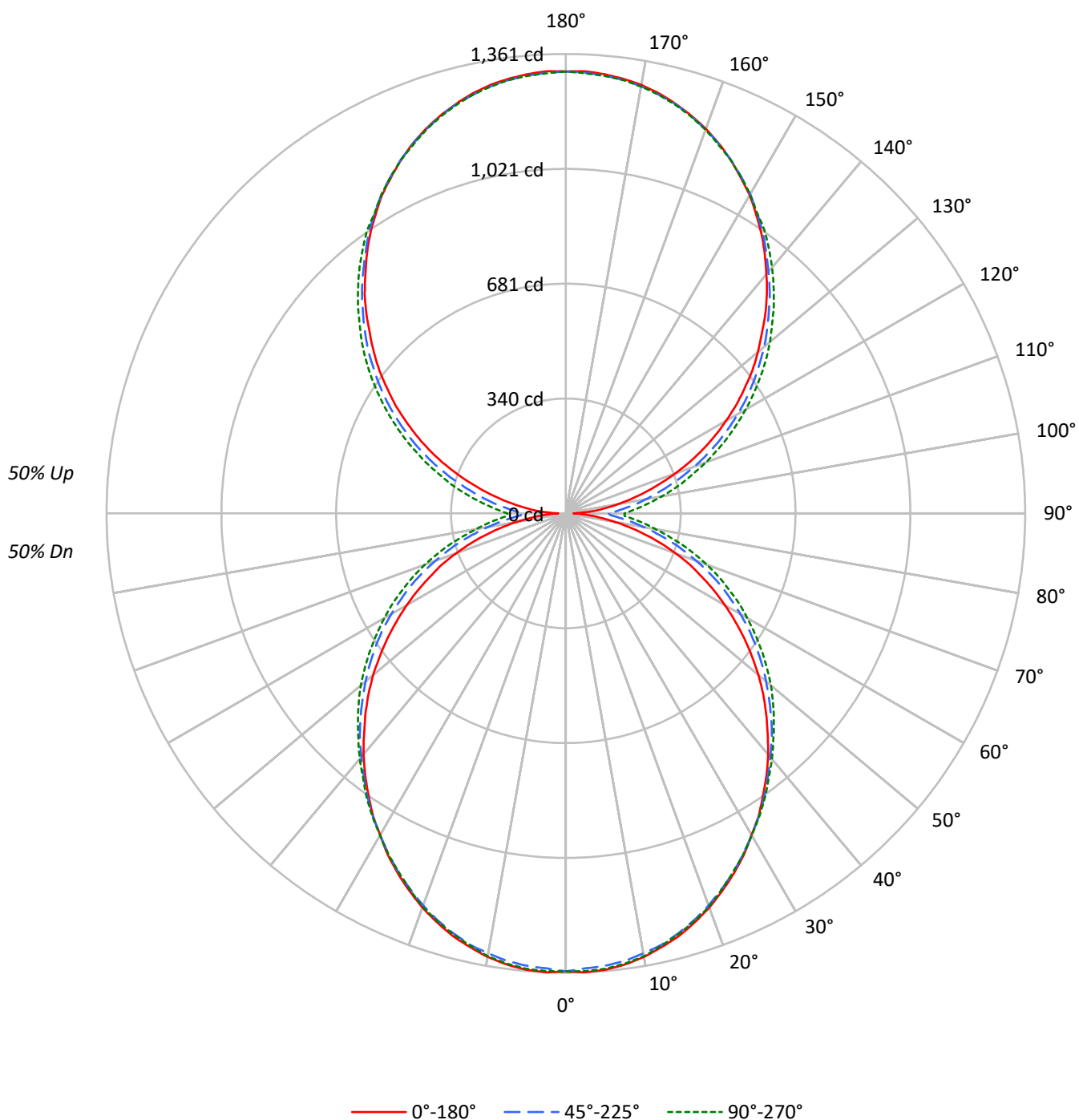
Lumens per Lamp: N/A
Luminaire Lumens: 7860.1 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
Input Voltage (V):
Input Current (A_{in}): 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: P1034942

CATALOG NUMBER: S125DIW-B1090D1050UB27-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1034942

CATALOG NUMBER: S125DIW-B1090D1050UB27-4F0-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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	82	78	72	69	67	60	58	56	49	47	46
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	42	40	38
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32
4	73	62	54	48	67	57	50	45	49	43	39	41	37	33	33	30	28
5	67	55	47	41	62	51	44	38	44	38	33	36	32	29	30	27	24
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	24	21
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	25	21	19
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7421 cd/sqm

TEST NUMBER: P1034942

CATALOG NUMBER: S125DIW-B1090D1050UB27-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	1.6
10°-20°	364.6	4.6
20°-30°	542.1	6.9
30°-40°	642.0	8.2
40°-50°	663.7	8.4
50°-60°	611.4	7.8
60°-70°	494.3	6.3
70°-80°	330.7	4.2
80°-90°	173.0	2.2
90°-100°	183.4	2.3
100°-110°	329.6	4.2
110°-120°	486.2	6.2
120°-130°	604.4	7.7
130°-140°	658.9	8.4
140°-150°	636.6	8.1
150°-160°	532.8	6.8
160°-170°	354.1	4.5
170°-180°	123.9	1.6
0°-30°	1035.1	13.2
0°-40°	1677.1	21.3
0°-60°	2952.3	37.6
0°-90°	3950.3	50.3
90°-120°	999.1	12.7
90°-150°	2899.0	36.9
90°-180°	3910.0	49.7
0°-180°	7860.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	22	73	125	161	174	19
95°	84	120	176	212	223	83
105°	244	271	317	349	362	260
115°	447	460	497	520	527	442
125°	646	651	679	698	703	579
135°	836	841	851	868	871	644
145°	1011	1014	1017	1024	1026	632
155°	1155	1155	1156	1160	1155	532
165°	1256	1254	1255	1259	1253	354
175°	1306	1302	1302	1308	1301	124
180°	1309	1309	1309	1309	1309	

TEST NUMBER: P1034942

CATALOG NUMBER: S125DIW-B1090D1050UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	22.3	73.1	125.4	161.1	173.5
92.5°	49.2	92.9	148.6	185.0	196.4
95°	83.5	120.2	175.6	212.0	223.3
97.5°	117.9	150.8	209.0	243.0	253.4
100°	157.2	185.2	241.1	278.2	288.2
102.5°	199.8	230.1	276.4	313.2	324.3
105°	244.3	270.7	316.7	349.4	361.8
107.5°	292.8	316.6	360.3	390.0	397.9
110°	343.5	364.6	404.8	433.2	441.5

TEST NUMBER: P1034942

CATALOG NUMBER: S125DIW-B1090D1050UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	396.5	410.5	450.5	475.5	482.8
115°	447.1	460.5	497.1	520.0	527.0
117.5°	498.8	506.4	541.8	565.4	570.6
120°	547.7	556.7	588.3	611.0	614.9
122.5°	599.3	601.7	634.0	654.3	659.2
125°	646.2	651.0	678.6	697.9	703.4
127.5°	696.8	698.6	722.2	741.1	747.0
130°	742.7	746.5	767.1	784.7	789.3
132.5°	787.2	796.4	808.7	826.3	828.5
135°	836.1	840.8	851.2	868.5	871.1
137.5°	882.0	886.7	894.1	911.0	911.2
140°	924.4	929.5	933.9	950.6	950.8
142.5°	968.2	971.0	975.0	988.1	988.3
145°	1011.0	1013.8	1016.8	1023.5	1025.8
147.5°	1049.4	1052.5	1054.5	1060.3	1054.7
150°	1089.2	1088.1	1092.2	1092.2	1091.5
152.5°	1121.8	1123.8	1124.8	1127.9	1123.8
155°	1155.4	1155.4	1156.4	1160.5	1155.4
157.5°	1186.0	1183.9	1184.9	1189.0	1181.9
160°	1212.4	1209.4	1210.4	1214.5	1209.4
162.5°	1235.9	1233.8	1233.8	1238.9	1232.8
165°	1256.3	1254.2	1255.2	1259.3	1253.2
167.5°	1274.6	1270.5	1270.5	1276.6	1270.5
170°	1288.9	1284.8	1284.8	1290.9	1283.8
172.5°	1299.0	1295.0	1295.0	1301.1	1295.0
175°	1306.2	1302.1	1302.1	1308.2	1301.1
177.5°	1311.3	1307.2	1306.2	1312.3	1305.2
180°	1309.2	1309.2	1309.2	1309.2	1309.2

(END OF REPORT)