

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: P1034553

Luminaire Tested: S125DIW-B610D1050UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034553
REPORT IS A COMBINATION OF REPORTS P1003738 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1050UB2750-4F0-XX-W2A-F_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

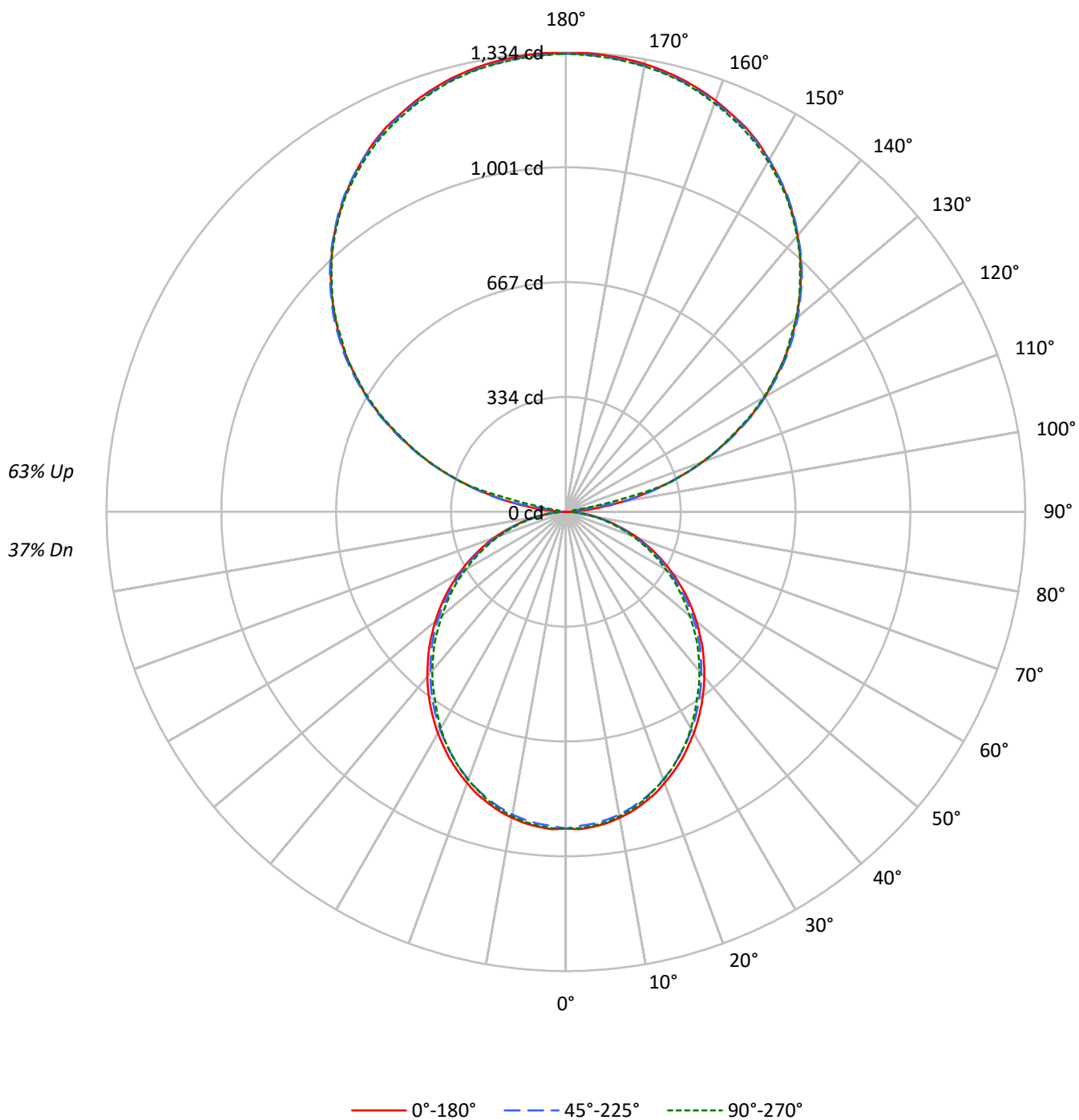
Lumens per Lamp: N/A
Luminaire Lumens: 6483.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.5
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: P1034553

CATALOG NUMBER: S125DIW-B610D1050UB2750-4F0-XX-W2A-F_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1034553

CATALOG NUMBER: S125DIW-B610D1050UB2750-4F0-XX-W2A-F_5000K

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37		
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31		
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	33	31	26		
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22		
4	72	61	54	48	65	56	49	44	46	41	37	36	32	30	27	25	23	19		
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16		
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14		
7	56	44	36	31	51	40	33	29	33	28	24	26	23	20	20	18	16	13		
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11		
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10		
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5893	5893	5893
5°	5893	5756	5767
10°	5845	5625	5607
15°	5768	5466	5418
20°	5664	5284	5200
25°	5553	5084	4968
30°	5419	4876	4723
35°	5275	4658	4449
40°	5127	4428	4206
45°	4966	4203	3946
50°	4789	3948	3645
55°	4615	3667	3367
60°	4406	3371	3044
65°	4157	3028	2710
70°	3904	2634	2324
75°	3476	2168	1880
80°	2963	1619	1381
85°	2287	959	763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4966 cd/sqm

TEST NUMBER: P1034553

CATALOG NUMBER: S125DIW-B610D1050UB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.3
10°-20°	245.2	3.8
20°-30°	361.9	5.6
30°-40°	422.3	6.5
40°-50°	424.1	6.5
50°-60°	372.3	5.7
60°-70°	277.3	4.3
70°-80°	158.4	2.4
80°-90°	47.7	0.7
90°-100°	45.2	0.7
100°-110°	300.3	4.6
110°-120°	540.7	8.3
120°-130°	694.1	10.7
130°-140°	746.5	11.5
140°-150°	700.6	10.8
150°-160°	566.7	8.7
160°-170°	366.5	5.7
170°-180°	126.4	1.9
0°-30°	693.9	10.7
0°-40°	1116.2	17.2
0°-60°	1912.6	29.5
0°-90°	2396.0	37.0
90°-120°	886.2	13.7
90°-150°	3027.4	46.7
90°-180°	4087.0	63.0
0°-180°	6483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	918	917	910	916	915	87
15°	875	873	865	869	869	247
25°	795	791	782	783	781	366
35°	686	683	673	670	664	429
45°	562	559	550	541	539	433
55°	428	426	416	409	404	382
65°	289	287	279	273	270	287
75°	154	152	148	146	143	163
85°	40	41	41	40	39	44
90°	1	9	16	21	24	6
95°	56	53	16	21	21	69
105°	290	294	294	294	293	307
115°	544	549	550	546	540	540
125°	774	781	781	777	774	692
135°	966	972	970	968	962	744
145°	1119	1121	1121	1122	1116	700
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: P1034553

CATALOG NUMBER: S125DIW-B610D1050UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.8	919.8	919.8	919.8	919.8
2.5°	922.7	920.5	913.2	920.5	919.8
5°	918.3	916.9	909.6	916.2	915.4
7.5°	911.8	910.3	902.3	908.9	908.2
10°	902.3	900.9	892.9	898.7	898.0
12.5°	890.7	887.8	880.5	884.9	884.9
15°	875.4	873.2	865.2	868.9	868.9
17.5°	859.4	855.8	847.8	852.1	848.5
20°	838.3	836.8	827.4	832.5	828.8
22.5°	817.2	814.3	805.5	808.5	806.3
25°	794.6	791.0	781.5	783.0	780.8
27.5°	768.4	766.3	756.8	757.5	755.3
30°	743.0	740.8	729.9	728.4	726.2
32.5°	715.3	711.7	702.2	699.3	694.9
35°	686.2	683.3	673.1	669.5	663.6
37.5°	656.4	652.7	643.3	638.2	634.5
40°	625.8	622.2	612.0	605.4	603.3
42.5°	593.1	590.2	580.0	574.1	570.5
45°	561.8	558.9	550.1	541.4	539.2
47.5°	527.6	528.3	517.4	508.7	503.6
50°	494.8	492.6	483.9	474.5	469.4
52.5°	461.4	459.9	450.4	442.4	436.6
55°	427.9	425.7	415.5	409.0	403.9
57.5°	392.2	391.5	382.8	374.0	371.8
60°	358.7	355.8	347.8	340.6	335.5
62.5°	323.8	321.6	315.1	307.1	303.4
65°	288.9	287.4	279.4	272.9	270.0
67.5°	254.7	251.8	246.0	240.1	238.7
70°	222.7	219.0	212.5	208.1	205.2
72.5°	187.7	185.6	181.9	176.8	173.9
75°	153.5	152.1	148.4	146.3	143.4
77.5°	121.5	120.8	118.6	117.2	115.0
80°	91.7	91.7	90.2	89.5	88.0
82.5°	65.5	64.0	64.0	62.6	62.6
85°	40.0	40.8	40.8	40.0	38.6
87.5°	19.6	19.6	18.9	18.9	17.5
90°	1.0	8.9	15.8	20.7	23.7
92.5°	18.7	9.9	15.8	20.7	21.7
95°	56.2	53.3	15.8	20.7	20.7
97.5°	105.5	111.5	17.8	19.7	20.7
100°	164.7	167.7	171.6	24.7	20.7
102.5°	224.9	228.8	230.8	232.8	149.9
105°	290.0	293.9	293.9	293.9	292.9
107.5°	357.0	357.0	359.0	360.0	356.1
110°	422.1	422.1	424.1	421.1	422.1

TEST NUMBER: P1034553

CATALOG NUMBER: S125DIW-B610D1050UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	483.3	486.2	487.2	483.3	481.3
115°	544.4	549.4	550.3	546.4	540.5
117.5°	608.5	608.5	612.5	606.6	604.6
120°	667.7	666.7	669.7	667.7	662.8
122.5°	720.0	724.9	725.9	723.9	718.0
125°	774.2	781.1	781.1	777.2	774.2
127.5°	826.5	831.4	830.5	828.5	820.6
130°	873.9	878.8	879.8	876.8	871.9
132.5°	921.2	927.1	924.2	924.2	919.2
135°	965.6	971.5	969.5	967.5	961.6
137.5°	1007.0	1012.9	1010.9	1010.9	1006.0
140°	1047.4	1049.4	1048.4	1050.4	1044.5
142.5°	1083.9	1084.9	1086.9	1086.9	1081.0
145°	1119.4	1121.4	1121.4	1122.4	1116.5
147.5°	1151.0	1151.0	1152.0	1153.0	1146.1
150°	1180.6	1178.6	1180.6	1182.6	1174.7
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)