

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: P1036004

Luminaire Tested: S125RDIW-B610D1340UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036004
REPORT IS A COMBINATION OF REPORTS P1006664 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D1340UB50-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

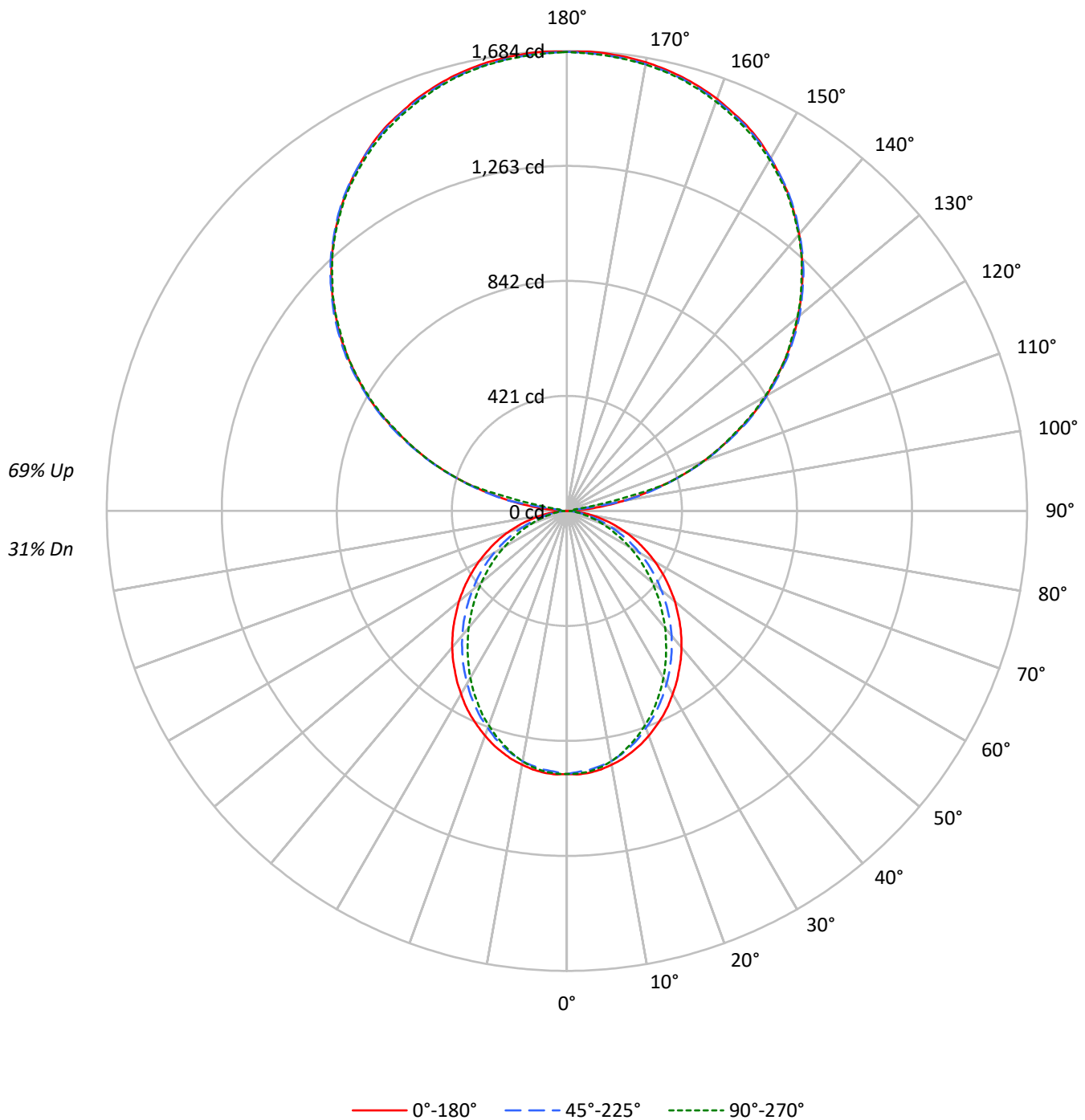
Lumens per Lamp: N/A
Luminaire Lumens: 7440.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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: P1036004

CATALOG NUMBER: S125RDIW-B610D1340UB50-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1036004

CATALOG NUMBER: S125RDIW-B610D1340UB50-4F0-XX-W2A-F

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38
1	94	89	86	82	84	80	77	75	64	62	60	48	47	46	34	33	33
2	85	78	72	67	76	70	66	61	56	53	50	43	40	38	30	29	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24
4	71	61	53	48	64	55	48	43	44	39	36	34	30	28	24	22	20
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	17	16
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	16	14	13
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6172	6172	6172
5°	6173	6018	6028
10°	6113	5867	5815
15°	6026	5654	5535
20°	5919	5399	5241
25°	5797	5149	4926
30°	5646	4876	4595
35°	5492	4597	4244
40°	5346	4311	3900
45°	5171	4002	3541
50°	4994	3675	3175
55°	4787	3352	2796
60°	4575	2983	2402
65°	4324	2571	1979
70°	4030	2093	1557
75°	3625	1574	1135
80°	3057	1020	765
85°	2287	548	431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5171 cd/sqm

TEST NUMBER: P1036004

CATALOG NUMBER: S125RDIW-B610D1340UB50-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.2
10°-20°	253.4	3.4
20°-30°	367.4	4.9
30°-40°	418.6	5.6
40°-50°	408.0	5.5
50°-60°	343.3	4.6
60°-70°	240.6	3.2
70°-80°	123.3	1.7
80°-90°	33.3	0.4
90°-100°	57.0	0.8
100°-110°	379.2	5.1
110°-120°	682.9	9.2
120°-130°	876.6	11.8
130°-140°	942.8	12.7
140°-150°	884.8	11.9
150°-160°	715.7	9.6
160°-170°	462.9	6.2
170°-180°	159.6	2.1
0°-30°	711.4	9.6
0°-40°	1130.0	15.2
0°-60°	1881.3	25.3
0°-90°	2278.5	30.6
90°-120°	1119.2	15.0
90°-150°	3823.3	51.4
90°-180°	5162.0	69.4
0°-180°	7440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	962	959	951	958	957	91
15°	915	910	895	894	888	258
25°	830	818	792	782	774	382
35°	714	697	664	643	633	447
45°	585	564	524	495	484	451
55°	444	420	380	347	335	397
65°	300	276	237	208	197	298
75°	160	138	108	92	87	169
85°	40	27	23	23	22	44
90°	1	11	20	26	30	6
95°	71	67	20	26	26	87
105°	366	371	371	371	370	388
115°	688	694	695	690	683	682
125°	978	986	986	982	978	873
135°	1219	1227	1224	1222	1214	940
145°	1414	1416	1416	1418	1410	884
155°	1557	1550	1552	1556	1546	717
165°	1643	1636	1637	1644	1634	464
175°	1680	1673	1674	1684	1673	160
180°	1680	1680	1680	1680	1680	

TEST NUMBER: P1036004

CATALOG NUMBER: S125RDIW-B610D1340UB50-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.3	963.3	963.3	963.3	963.3
2.5°	965.5	963.3	956.1	963.3	962.6
5°	961.9	959.0	951.0	958.2	956.8
7.5°	954.6	951.7	942.2	948.0	946.6
10°	943.7	941.5	931.3	933.5	931.3
12.5°	931.3	928.4	913.9	915.3	911.7
15°	914.6	910.2	894.9	894.2	887.7
17.5°	897.1	890.6	872.4	868.7	863.6
20°	876.0	868.7	845.5	841.8	835.3
22.5°	852.7	845.5	820.7	812.7	807.6
25°	829.5	818.5	791.6	782.2	774.2
27.5°	803.3	790.2	761.8	749.4	741.4
30°	774.2	760.3	729.8	713.0	706.5
32.5°	745.8	729.0	697.8	678.8	670.1
35°	714.5	697.0	664.3	643.2	633.0
37.5°	684.7	663.6	630.1	605.4	595.2
40°	652.6	630.8	595.9	568.2	559.5
42.5°	619.2	596.6	560.2	534.1	520.2
45°	585.0	563.9	523.9	494.8	483.8
47.5°	549.3	527.5	487.5	457.7	445.3
50°	515.9	491.8	450.4	419.8	408.9
52.5°	479.5	454.7	416.2	382.7	371.8
55°	443.8	420.5	379.8	347.1	335.4
57.5°	407.4	382.7	343.4	311.4	301.2
60°	372.5	347.1	307.8	275.8	264.8
62.5°	335.4	311.4	271.4	242.3	231.4
65°	300.5	275.8	237.2	208.1	197.2
67.5°	265.6	240.8	203.7	176.1	167.3
70°	229.9	205.2	168.8	146.2	137.5
72.5°	195.0	171.0	137.5	117.1	112.0
75°	160.1	138.2	107.7	91.7	86.6
77.5°	124.4	107.0	81.5	69.1	64.8
80°	94.6	77.1	56.8	50.2	48.7
82.5°	65.5	50.2	37.8	35.7	34.9
85°	40.0	26.9	23.3	22.6	21.8
87.5°	16.7	11.6	10.9	10.9	10.2
90°	1.2	11.2	19.9	26.2	29.9
92.5°	23.7	12.5	19.9	26.2	27.4
95°	71.0	67.3	19.9	26.2	26.2
97.5°	133.3	140.8	22.4	24.9	26.2
100°	208.0	211.7	216.7	31.1	26.2
102.5°	284.0	289.0	291.5	294.0	189.3
105°	366.2	371.2	371.2	371.2	369.9
107.5°	450.9	450.9	453.4	454.6	449.7
110°	533.1	533.1	535.6	531.9	533.1

TEST NUMBER: P1036004

CATALOG NUMBER: S125RDIW-B610D1340UB50-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	610.3	614.1	615.3	610.3	607.8
115°	687.6	693.8	695.0	690.1	682.6
117.5°	768.5	768.5	773.5	766.0	763.5
120°	843.3	842.0	845.8	843.3	837.0
122.5°	909.3	915.5	916.8	914.3	906.8
125°	977.8	986.5	986.5	981.5	977.8
127.5°	1043.8	1050.0	1048.8	1046.3	1036.3
130°	1103.6	1109.8	1111.1	1107.3	1101.1
132.5°	1163.4	1170.8	1167.1	1167.1	1160.9
135°	1219.4	1226.9	1224.4	1221.9	1214.4
137.5°	1271.7	1279.2	1276.7	1276.7	1270.5
140°	1322.8	1325.3	1324.1	1326.5	1319.1
142.5°	1368.9	1370.1	1372.6	1372.6	1365.2
145°	1413.7	1416.2	1416.2	1417.5	1410.0
147.5°	1453.6	1453.6	1454.8	1456.1	1447.4
150°	1491.0	1488.5	1491.0	1493.5	1483.5
152.5°	1527.1	1520.9	1523.4	1525.8	1517.1
155°	1557.0	1549.5	1552.0	1555.7	1545.8
157.5°	1580.6	1576.9	1576.9	1580.6	1570.7
160°	1605.6	1598.1	1599.3	1604.3	1594.3
162.5°	1625.5	1618.0	1619.3	1626.7	1615.5
165°	1642.9	1635.5	1636.7	1644.2	1634.2
167.5°	1656.6	1649.2	1650.4	1659.1	1647.9
170°	1667.8	1659.1	1660.4	1670.3	1659.1
172.5°	1675.3	1666.6	1669.1	1677.8	1666.6
175°	1680.3	1672.8	1674.1	1684.0	1672.8
177.5°	1684.0	1676.6	1677.8	1686.5	1676.6
180°	1680.3	1680.3	1680.3	1680.3	1680.3

(END OF REPORT)