

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: P1027253

Luminaire Tested: S125RDIP-B610D850UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027253
REPORT IS A COMBINATION OF REPORTS P1005694 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B610D850UB2750-4F0-XX-W2A-F_5000K
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

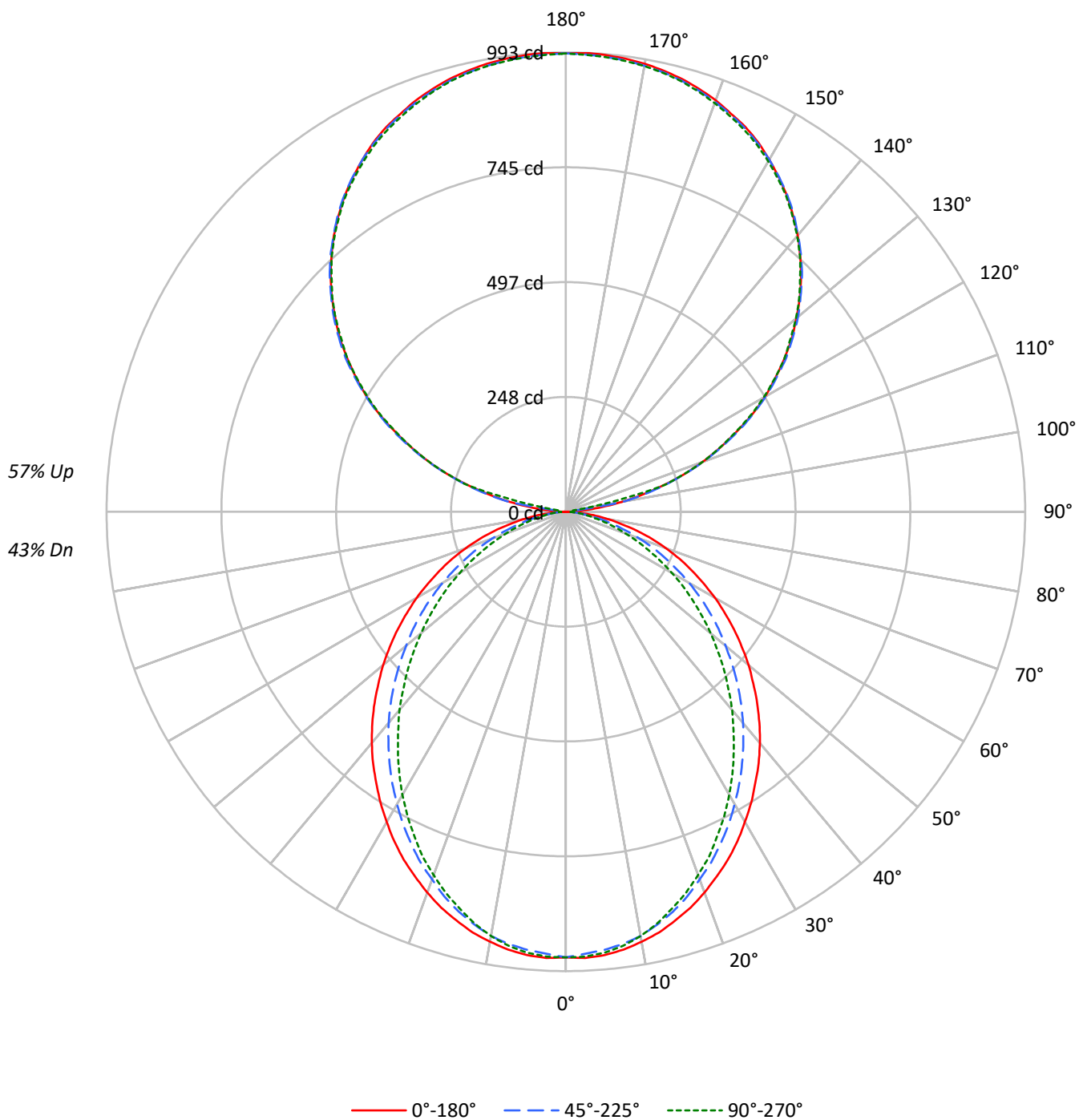
Lumens per Lamp: N/A
Luminaire Lumens: 5321.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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: P1027253

CATALOG NUMBER: S125RDIP-B610D850UB2750-4F0-XX-W2A-F_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1027253

CATALOG NUMBER: S125RDIP-B610D850UB2750-4F0-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
RCR																	
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50
1	96	92	88	85	88	84	81	78	70	68	65	56	55	53	44	43	42
2	88	81	75	70	80	74	69	65	61	58	54	50	47	45	39	37	36
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	20
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	19	16
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	16	13

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: P1027253

CATALOG NUMBER: S125RDIP-B610D850UB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.7
10°-20°	253.4	4.8
20°-30°	367.4	6.9
30°-40°	418.6	7.9
40°-50°	408.0	7.7
50°-60°	343.3	6.5
60°-70°	240.6	4.5
70°-80°	123.3	2.3
80°-90°	32.2	0.6
90°-100°	33.6	0.6
100°-110°	223.6	4.2
110°-120°	402.7	7.6
120°-130°	516.9	9.7
130°-140°	555.9	10.4
140°-150°	521.7	9.8
150°-160°	422.0	7.9
160°-170°	272.9	5.1
170°-180°	94.1	1.8
0°-30°	711.4	13.4
0°-40°	1130.0	21.2
0°-60°	1881.3	35.4
0°-90°	2277.5	42.8
90°-120°	659.9	12.4
90°-150°	2254.4	42.4
90°-180°	3044.0	57.2
0°-180°	5321.0	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	7	12	15	18	4
95°	42	40	12	15	15	51
105°	216	219	219	219	218	229
115°	405	409	410	407	402	402
125°	577	582	582	579	577	515
135°	719	724	722	720	716	554
145°	834	835	835	836	831	521
155°	918	914	915	917	912	423
165°	969	964	965	970	964	274
175°	991	986	987	993	986	94
180°	991	991	991	991	991	

TEST NUMBER: P1027253

CATALOG NUMBER: S125RDIP-B610D850UB2750-4F0-XX-W2A-F_5000K

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°	0.7	6.6	11.8	15.4	17.6
92.5°	14.0	7.3	11.8	15.4	16.2
95°	41.9	39.7	11.8	15.4	15.4
97.5°	78.6	83.0	13.2	14.7	15.4
100°	122.7	124.9	127.8	18.4	15.4
102.5°	167.5	170.4	171.9	173.3	111.6
105°	215.9	218.9	218.9	218.9	218.1
107.5°	265.9	265.9	267.3	268.1	265.1
110°	314.4	314.4	315.8	313.6	314.4

TEST NUMBER: P1027253

CATALOG NUMBER: S125RDIP-B610D850UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.9	362.1	362.8	359.9	358.4
115°	405.4	409.1	409.8	406.9	402.5
117.5°	453.2	453.2	456.1	451.7	450.2
120°	497.2	496.5	498.7	497.2	493.6
122.5°	536.2	539.8	540.6	539.1	534.7
125°	576.6	581.7	581.7	578.8	576.6
127.5°	615.5	619.2	618.4	617.0	611.1
130°	650.7	654.4	655.1	652.9	649.3
132.5°	686.0	690.4	688.2	688.2	684.5
135°	719.0	723.5	722.0	720.5	716.1
137.5°	749.9	754.3	752.8	752.8	749.2
140°	780.0	781.5	780.7	782.2	777.8
142.5°	807.2	807.9	809.4	809.4	805.0
145°	833.6	835.1	835.1	835.8	831.4
147.5°	857.1	857.1	857.9	858.6	853.5
150°	879.2	877.7	879.2	880.6	874.8
152.5°	900.5	896.8	898.3	899.7	894.6
155°	918.1	913.7	915.2	917.4	911.5
157.5°	932.0	929.8	929.8	932.0	926.2
160°	946.7	942.3	943.1	946.0	940.1
162.5°	958.5	954.1	954.8	959.2	952.6
165°	968.8	964.4	965.1	969.5	963.6
167.5°	976.8	972.4	973.2	978.3	971.7
170°	983.5	978.3	979.0	984.9	978.3
172.5°	987.9	982.7	984.2	989.3	982.7
175°	990.8	986.4	987.1	993.0	986.4
177.5°	993.0	988.6	989.3	994.5	988.6
180°	990.8	990.8	990.8	990.8	990.8

(END OF REPORT)