

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: P1034878

Luminaire Tested: S125RDIW-B610D470UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034878
REPORT IS A COMBINATION OF REPORTS P1006730 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D470UB2750-4F0-XX-W2A-F_5000K
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

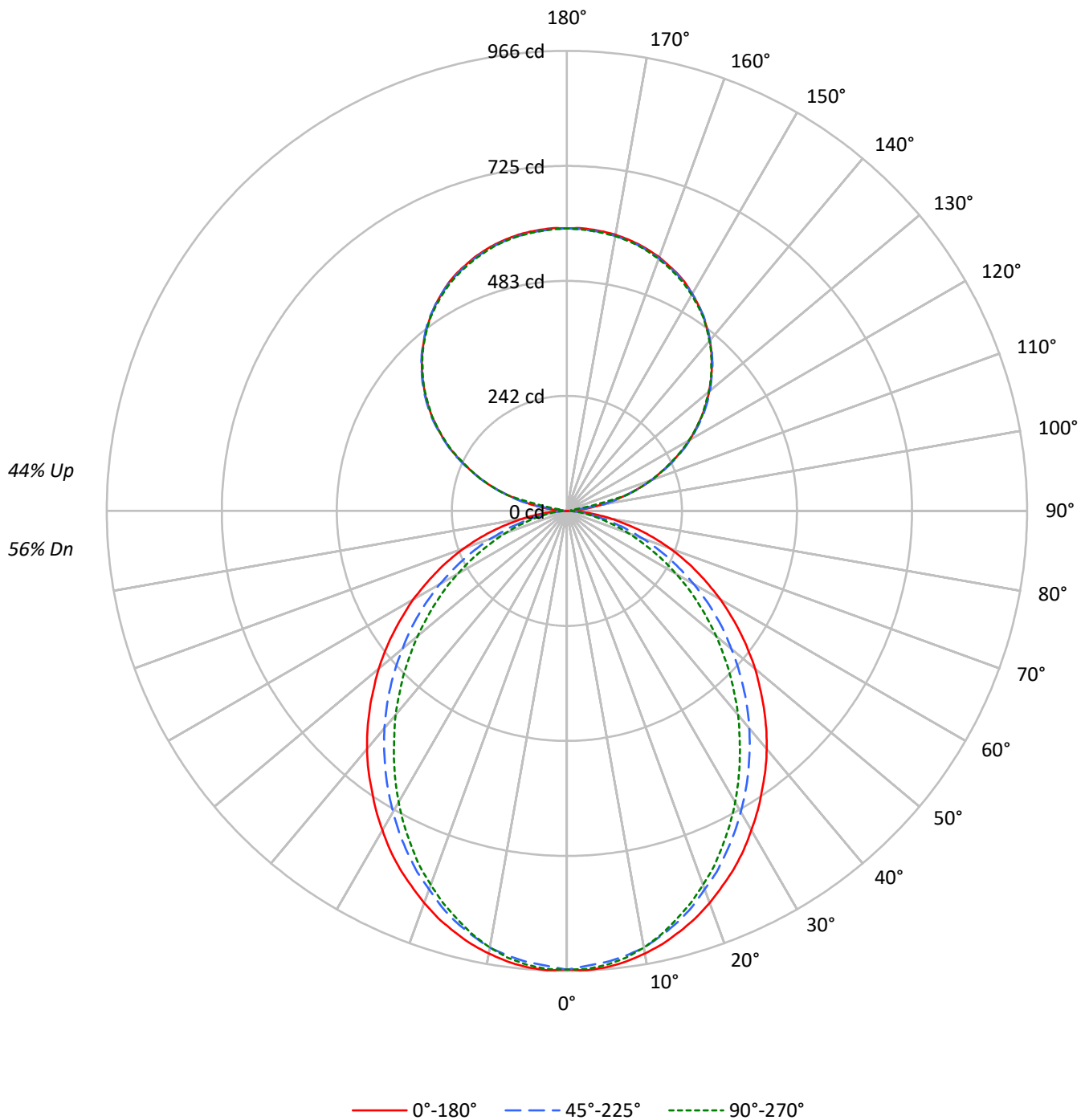
Lumens per Lamp: N/A
Luminaire Lumens: 4099.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
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: P1034878

CATALOG NUMBER: S125RDIW-B610D470UB2750-4F0-XX-W2A-F_5000K

Luminous Intensity Polar Plot



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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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61			56
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	53	52			47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44			40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38			34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	39	35	33			29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29			26
6	64	52	44	38	60	49	42	36	43	37	33	37	33	29	32	28	25			23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23			20
8	55	43	35	30	51	40	33	29	36	30	26	31	26	23	27	23	20			18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	18			16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17			15

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: P1034878

CATALOG NUMBER: S125RDIW-B610D470UB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	2.2
10°-20°	253.4	6.2
20°-30°	367.4	9.0
30°-40°	418.6	10.2
40°-50°	408.0	10.0
50°-60°	343.3	8.4
60°-70°	240.6	5.9
70°-80°	123.3	3.0
80°-90°	31.6	0.8
90°-100°	20.1	0.5
100°-110°	133.9	3.3
110°-120°	241.1	5.9
120°-130°	309.4	7.5
130°-140°	332.8	8.1
140°-150°	312.4	7.6
150°-160°	252.7	6.2
160°-170°	163.4	4.0
170°-180°	56.4	1.4
0°-30°	711.4	17.4
0°-40°	1130.0	27.6
0°-60°	1881.3	45.9
0°-90°	2276.9	55.5
90°-120°	395.1	9.6
90°-150°	1349.7	32.9
90°-180°	1822.0	44.4
0°-180°	4099.0	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°	0	4	7	9	11	4
95°	25	24	7	9	9	31
105°	129	131	131	131	131	137
115°	243	245	245	244	241	241
125°	345	348	348	346	345	308
135°	430	433	432	431	429	332
145°	499	500	500	500	498	312
155°	550	547	548	549	546	253
165°	580	577	578	580	577	164
175°	593	590	591	594	590	56
180°	593	593	593	593	593	

TEST NUMBER: P1034878

CATALOG NUMBER: S125RDIW-B610D470UB2750-4F0-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°	0.4	4.0	7.0	9.2	10.6
92.5°	8.4	4.4	7.0	9.2	9.7
95°	25.1	23.7	7.0	9.2	9.2
97.5°	47.0	49.7	7.9	8.8	9.2
100°	73.4	74.8	76.5	11.0	9.2
102.5°	100.3	102.0	102.9	103.8	66.8
105°	129.3	131.0	131.0	131.0	130.6
107.5°	159.2	159.2	160.1	160.5	158.7
110°	188.2	188.2	189.1	187.8	188.2

TEST NUMBER: P1034878

CATALOG NUMBER: S125RDIW-B610D470UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.5	216.8	217.2	215.5	214.6
115°	242.7	244.9	245.4	243.6	241.0
117.5°	271.3	271.3	273.1	270.4	269.5
120°	297.7	297.2	298.6	297.7	295.5
122.5°	321.0	323.2	323.6	322.8	320.1
125°	345.2	348.3	348.3	346.5	345.2
127.5°	368.5	370.7	370.2	369.4	365.8
130°	389.6	391.8	392.2	390.9	388.7
132.5°	410.7	413.3	412.0	412.0	409.8
135°	430.5	433.1	432.2	431.4	428.7
137.5°	449.0	451.6	450.7	450.7	448.5
140°	467.0	467.9	467.4	468.3	465.7
142.5°	483.2	483.7	484.6	484.6	481.9
145°	499.1	500.0	500.0	500.4	497.8
147.5°	513.2	513.2	513.6	514.0	511.0
150°	526.3	525.5	526.3	527.2	523.7
152.5°	539.1	536.9	537.8	538.7	535.6
155°	549.6	547.0	547.9	549.2	545.7
157.5°	558.0	556.7	556.7	558.0	554.5
160°	566.8	564.2	564.6	566.4	562.8
162.5°	573.8	571.2	571.6	574.3	570.3
165°	580.0	577.3	577.8	580.4	576.9
167.5°	584.8	582.2	582.6	585.7	581.7
170°	588.8	585.7	586.1	589.7	585.7
172.5°	591.4	588.3	589.2	592.3	588.3
175°	593.2	590.5	591.0	594.5	590.5
177.5°	594.5	591.9	592.3	595.4	591.9
180°	593.2	593.2	593.2	593.2	593.2

(END OF REPORT)