

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: P1027250

Luminaire Tested: S125RDIP-B610D850UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027250
REPORT IS A COMBINATION OF REPORTS P1005691 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_3000K
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

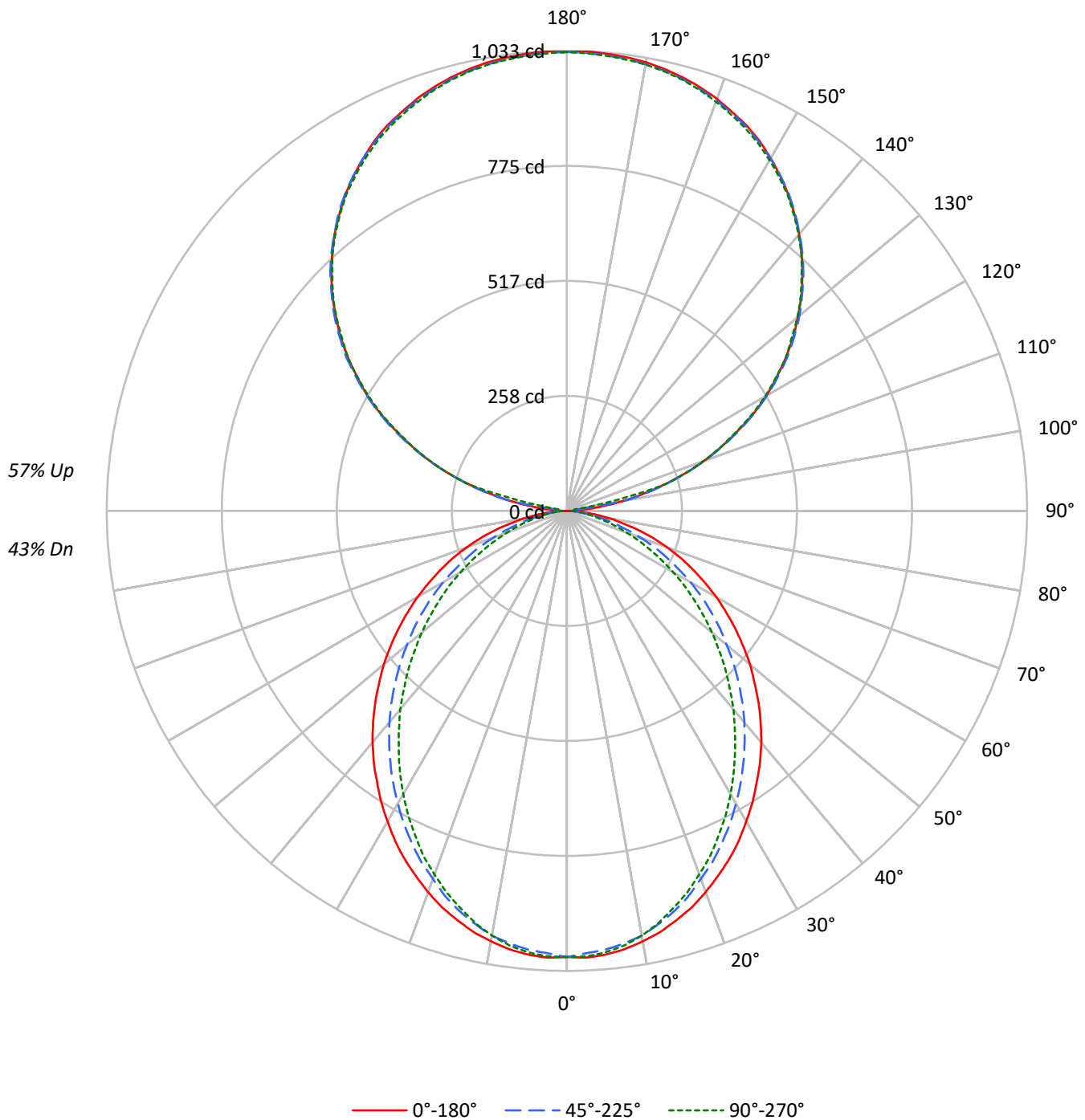
Lumens per Lamp: N/A
Luminaire Lumens: 5534.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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
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	25	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°	6419	6419	6419
5°	6419	6259	6269
10°	6357	6101	6047
15°	6267	5880	5756
20°	6155	5615	5451
25°	6028	5356	5123
30°	5872	5070	4779
35°	5712	4780	4413
40°	5560	4483	4057
45°	5378	4162	3683
50°	5193	3822	3302
55°	4979	3486	2908
60°	4758	3102	2499
65°	4497	2673	2058
70°	4191	2176	1619
75°	3770	1636	1180
80°	3180	1059	796
85°	2378	569	448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.7
10°-20°	263.5	4.8
20°-30°	382.1	6.9
30°-40°	435.3	7.9
40°-50°	424.3	7.7
50°-60°	357.1	6.5
60°-70°	250.2	4.5
70°-80°	128.3	2.3
80°-90°	33.5	0.6
90°-100°	35.0	0.6
100°-110°	232.6	4.2
110°-120°	418.8	7.6
120°-130°	537.6	9.7
130°-140°	578.2	10.4
140°-150°	542.6	9.8
150°-160°	438.9	7.9
160°-170°	283.9	5.1
170°-180°	97.9	1.8
0°-30°	739.9	13.4
0°-40°	1175.2	21.2
0°-60°	1956.5	35.4
0°-90°	2368.5	42.8
90°-120°	686.3	12.4
90°-150°	2344.8	42.4
90°-180°	3165.0	57.2
0°-180°	5534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1000	997	989	996	995	95
15°	951	947	931	930	923	268
25°	863	851	823	813	805	397
35°	743	725	691	669	658	465
45°	608	586	545	514	503	469
55°	462	437	395	361	349	413
65°	312	287	247	216	205	309
75°	166	144	112	95	90	176
85°	42	28	24	24	23	46
90°	1	7	12	16	18	5
95°	44	41	12	16	16	53
105°	225	228	228	228	227	238
115°	422	426	426	423	419	418
125°	600	605	605	602	600	536
135°	748	752	751	749	745	577
145°	867	869	869	869	865	542
155°	955	950	952	954	948	440
165°	1008	1003	1004	1008	1002	285
175°	1030	1026	1027	1033	1026	98
180°	1030	1030	1030	1030	1030	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1004.1	1001.8	994.3	1001.8	1001.1
5°	1000.3	997.3	989.0	996.5	995.0
7.5°	992.8	989.7	979.9	986.0	984.4
10°	981.4	979.1	968.5	970.8	968.5
12.5°	968.5	965.5	950.4	951.9	948.1
15°	951.1	946.6	930.7	930.0	923.1
17.5°	933.0	926.2	907.3	903.5	898.2
20°	911.0	903.5	879.3	875.5	868.7
22.5°	886.8	879.3	853.5	845.2	839.9
25°	862.6	851.3	823.3	813.4	805.1
27.5°	835.4	821.8	792.2	779.4	771.1
30°	805.1	790.7	758.9	741.5	734.7
32.5°	775.6	758.2	725.7	706.0	696.9
35°	743.1	724.9	690.8	668.9	658.3
37.5°	712.0	690.1	655.3	629.6	619.0
40°	678.7	656.0	619.7	591.0	581.9
42.5°	643.9	620.5	582.6	555.4	541.0
45°	608.4	586.4	544.8	514.5	503.2
47.5°	571.3	548.6	507.0	476.0	463.1
50°	536.5	511.5	468.4	436.6	425.3
52.5°	498.7	472.9	432.8	398.0	386.7
55°	461.6	437.4	395.0	360.9	348.8
57.5°	423.7	398.0	357.2	323.9	313.3
60°	387.4	360.9	320.1	286.8	275.4
62.5°	348.8	323.9	282.2	252.0	240.6
65°	312.5	286.8	246.7	216.4	205.1
67.5°	276.2	250.5	211.9	183.1	174.0
70°	239.1	213.4	175.5	152.1	143.0
72.5°	202.8	177.8	143.0	121.8	116.5
75°	166.5	143.8	112.0	95.3	90.0
77.5°	129.4	111.2	84.7	71.9	67.3
80°	98.4	80.2	59.0	52.2	50.7
82.5°	68.1	52.2	39.3	37.1	36.3
85°	41.6	28.0	24.2	23.5	22.7
87.5°	17.4	12.1	11.4	11.4	10.6
90°	0.8	6.9	12.2	16.0	18.3
92.5°	14.5	7.6	12.2	16.0	16.8
95°	43.5	41.3	12.2	16.0	16.0
97.5°	81.7	86.3	13.8	15.3	16.0
100°	127.6	129.9	132.9	19.1	16.0
102.5°	174.2	177.2	178.8	180.3	116.1
105°	224.6	227.6	227.6	227.6	226.9
107.5°	276.5	276.5	278.1	278.8	275.8
110°	326.9	326.9	328.5	326.2	326.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	374.3	376.6	377.4	374.3	372.8
115°	421.7	425.5	426.3	423.2	418.6
117.5°	471.3	471.3	474.4	469.8	468.3
120°	517.2	516.4	518.7	517.2	513.3
122.5°	557.6	561.5	562.2	560.7	556.1
125°	599.7	605.0	605.0	602.0	599.7
127.5°	640.1	644.0	643.2	641.7	635.6
130°	676.8	680.6	681.4	679.1	675.3
132.5°	713.5	718.1	715.8	715.8	712.0
135°	747.9	752.4	750.9	749.4	744.8
137.5°	779.9	784.5	783.0	783.0	779.2
140°	811.3	812.8	812.0	813.6	809.0
142.5°	839.5	840.3	841.8	841.8	837.2
145°	867.0	868.6	868.6	869.3	864.7
147.5°	891.5	891.5	892.2	893.0	887.6
150°	914.4	912.9	914.4	915.9	909.8
152.5°	936.5	932.7	934.2	935.8	930.4
155°	954.9	950.3	951.8	954.1	948.0
157.5°	969.4	967.1	967.1	969.4	963.3
160°	984.7	980.1	980.8	983.9	977.8
162.5°	996.9	992.3	993.1	997.7	990.8
165°	1007.6	1003.0	1003.8	1008.3	1002.2
167.5°	1016.0	1011.4	1012.2	1017.5	1010.6
170°	1022.9	1017.5	1018.3	1024.4	1017.5
172.5°	1027.4	1022.1	1023.6	1029.0	1022.1
175°	1030.5	1025.9	1026.7	1032.8	1025.9
177.5°	1032.8	1028.2	1029.0	1034.3	1028.2
180°	1030.5	1030.5	1030.5	1030.5	1030.5

(END OF REPORT)