

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: P1027251

Luminaire Tested: S125RDIP-B610D850UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027251
REPORT IS A COMBINATION OF REPORTS P1005692 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_3500K
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

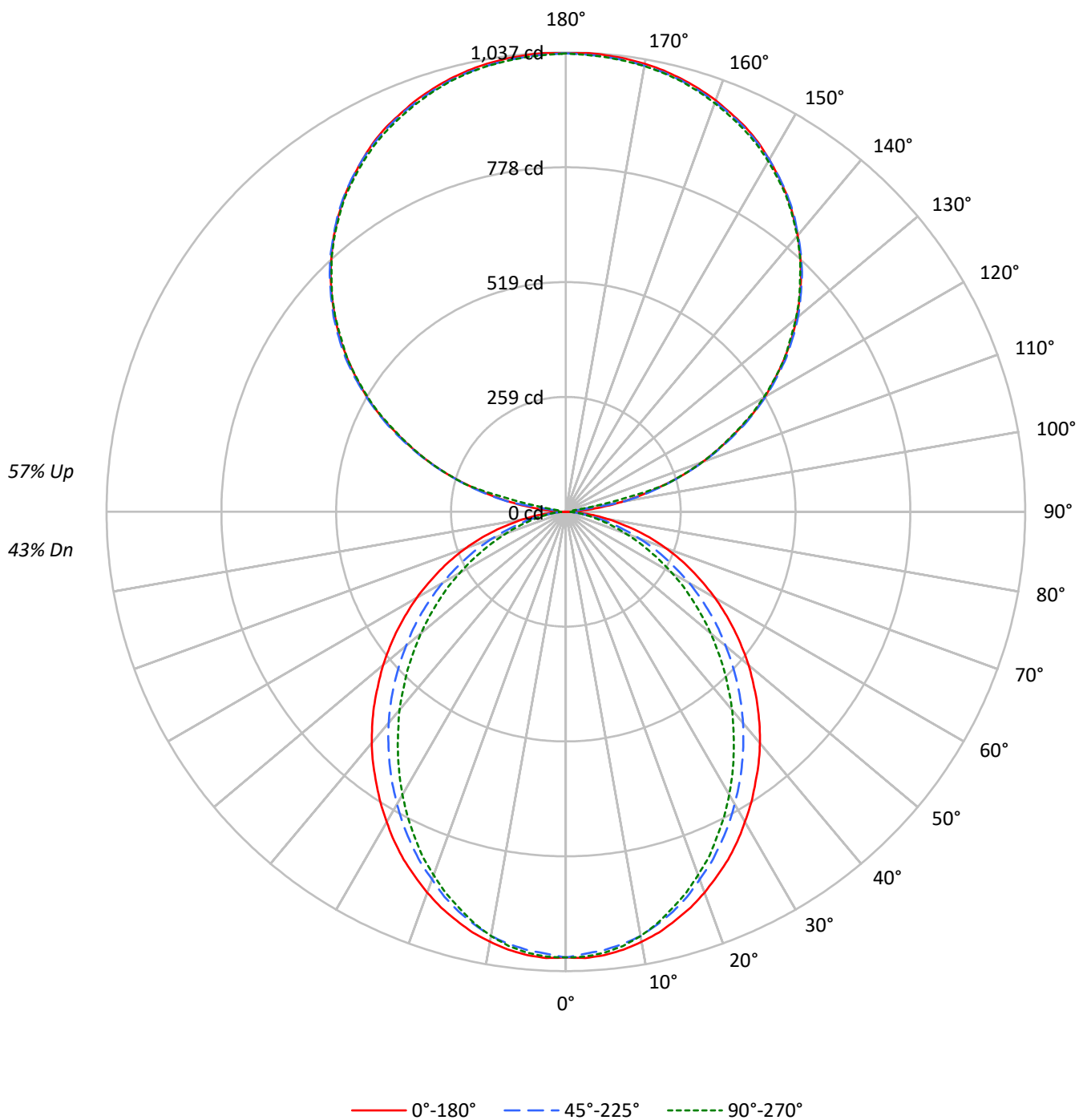
Lumens per Lamp: N/A
Luminaire Lumens: 5557.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	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°	6446	6446	6446
5°	6447	6286	6295
10°	6384	6127	6073
15°	6294	5905	5780
20°	6182	5639	5473
25°	6054	5378	5144
30°	5896	5092	4799
35°	5736	4801	4432
40°	5584	4502	4073
45°	5400	4180	3698
50°	5215	3838	3316
55°	4999	3501	2920
60°	4779	3115	2510
65°	4515	2684	2066
70°	4209	2186	1626
75°	3786	1644	1185
80°	3193	1065	799
85°	2390	571	450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5400 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	1.7
10°-20°	264.6	4.8
20°-30°	383.7	6.9
30°-40°	437.1	7.9
40°-50°	426.1	7.7
50°-60°	358.6	6.5
60°-70°	251.3	4.5
70°-80°	128.8	2.3
80°-90°	33.7	0.6
90°-100°	35.1	0.6
100°-110°	233.5	4.2
110°-120°	420.5	7.6
120°-130°	539.8	9.7
130°-140°	580.6	10.4
140°-150°	544.9	9.8
150°-160°	440.7	7.9
160°-170°	285.0	5.1
170°-180°	98.3	1.8
0°-30°	743.0	13.4
0°-40°	1180.1	21.2
0°-60°	1964.8	35.4
0°-90°	2378.5	42.8
90°-120°	689.2	12.4
90°-150°	2354.4	42.4
90°-180°	3178.0	57.2
0°-180°	5557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	1002	993	1001	999	95
15°	955	951	935	934	927	269
25°	866	855	827	817	808	399
35°	746	728	694	672	661	467
45°	611	589	547	517	505	471
55°	464	439	397	362	350	414
65°	314	288	248	217	206	311
75°	167	144	112	96	90	177
85°	42	28	24	24	23	46
90°	1	7	12	16	18	5
95°	44	41	12	16	16	54
105°	226	229	229	229	228	239
115°	423	427	428	425	420	420
125°	602	608	608	604	602	538
135°	751	756	754	752	748	579
145°	871	872	872	873	868	544
155°	959	954	956	958	952	442
165°	1012	1007	1008	1012	1006	286
175°	1035	1030	1031	1037	1030	99
180°	1035	1035	1035	1035	1035	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.1	1006.1	1006.1	1006.1	1006.1
2.5°	1008.4	1006.1	998.5	1006.1	1005.3
5°	1004.6	1001.5	993.2	1000.8	999.2
7.5°	997.0	993.9	984.0	990.1	988.6
10°	985.6	983.3	972.6	974.9	972.6
12.5°	972.6	969.6	954.4	955.9	952.1
15°	955.2	950.6	934.6	933.9	927.0
17.5°	936.9	930.1	911.1	907.3	902.0
20°	914.9	907.3	883.0	879.2	872.3
22.5°	890.6	883.0	857.1	848.8	843.5
25°	866.3	854.9	826.7	816.9	808.5
27.5°	838.9	825.2	795.6	782.7	774.3
30°	808.5	794.1	762.2	744.7	737.8
32.5°	778.9	761.4	728.7	709.0	699.8
35°	746.2	728.0	693.8	671.7	661.1
37.5°	715.0	693.0	658.1	632.2	621.6
40°	681.6	658.8	622.3	593.5	584.3
42.5°	646.7	623.1	585.1	557.7	543.3
45°	610.9	588.9	547.1	516.7	505.3
47.5°	573.7	550.9	509.1	478.0	465.0
50°	538.8	513.7	470.4	438.4	427.1
52.5°	500.8	474.9	434.6	399.7	388.3
55°	463.5	439.2	396.7	362.5	350.3
57.5°	425.5	399.7	358.7	325.2	314.6
60°	389.1	362.5	321.4	288.0	276.6
62.5°	350.3	325.2	283.4	253.0	241.6
65°	313.8	288.0	247.7	217.3	205.9
67.5°	277.4	251.5	212.8	183.9	174.8
70°	240.1	214.3	176.3	152.7	143.6
72.5°	203.6	178.6	143.6	122.3	117.0
75°	167.2	144.4	112.5	95.7	90.4
77.5°	129.9	111.7	85.1	72.2	67.6
80°	98.8	80.5	59.3	52.4	50.9
82.5°	68.4	52.4	39.5	37.2	36.5
85°	41.8	28.1	24.3	23.6	22.8
87.5°	17.5	12.2	11.4	11.4	10.6
90°	0.8	6.9	12.3	16.1	18.4
92.5°	14.6	7.7	12.3	16.1	16.9
95°	43.7	41.4	12.3	16.1	16.1
97.5°	82.1	86.7	13.8	15.3	16.1
100°	128.1	130.4	133.5	19.2	16.1
102.5°	174.9	178.0	179.5	181.0	116.6
105°	225.5	228.6	228.6	228.6	227.8
107.5°	277.7	277.7	279.2	280.0	276.9
110°	328.3	328.3	329.8	327.5	328.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.8	378.1	378.9	375.8	374.3
115°	423.4	427.2	428.0	424.9	420.3
117.5°	473.3	473.3	476.3	471.7	470.2
120°	519.3	518.5	520.8	519.3	515.4
122.5°	559.9	563.8	564.5	563.0	558.4
125°	602.1	607.5	607.5	604.4	602.1
127.5°	642.8	646.6	645.8	644.3	638.2
130°	679.6	683.4	684.2	681.9	678.1
132.5°	716.4	721.0	718.7	718.7	714.9
135°	750.9	755.5	754.0	752.5	747.9
137.5°	783.1	787.7	786.2	786.2	782.4
140°	814.6	816.1	815.4	816.9	812.3
142.5°	843.0	843.7	845.3	845.3	840.7
145°	870.6	872.1	872.1	872.9	868.3
147.5°	895.1	895.1	895.9	896.7	891.3
150°	918.1	916.6	918.1	919.7	913.5
152.5°	940.4	936.5	938.1	939.6	934.2
155°	958.8	954.2	955.7	958.0	951.9
157.5°	973.4	971.1	971.1	973.4	967.2
160°	988.7	984.1	984.9	987.9	981.8
162.5°	1001.0	996.4	997.1	1001.7	994.8
165°	1011.7	1007.1	1007.9	1012.5	1006.3
167.5°	1020.2	1015.6	1016.3	1021.7	1014.8
170°	1027.1	1021.7	1022.5	1028.6	1021.7
172.5°	1031.7	1026.3	1027.8	1033.2	1026.3
175°	1034.7	1030.1	1030.9	1037.0	1030.1
177.5°	1037.0	1032.4	1033.2	1038.6	1032.4
180°	1034.7	1034.7	1034.7	1034.7	1034.7

(END OF REPORT)