

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: P1028190

Luminaire Tested: S125DIP-B610D850UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028190
REPORT IS A COMBINATION OF REPORTS P1002417 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

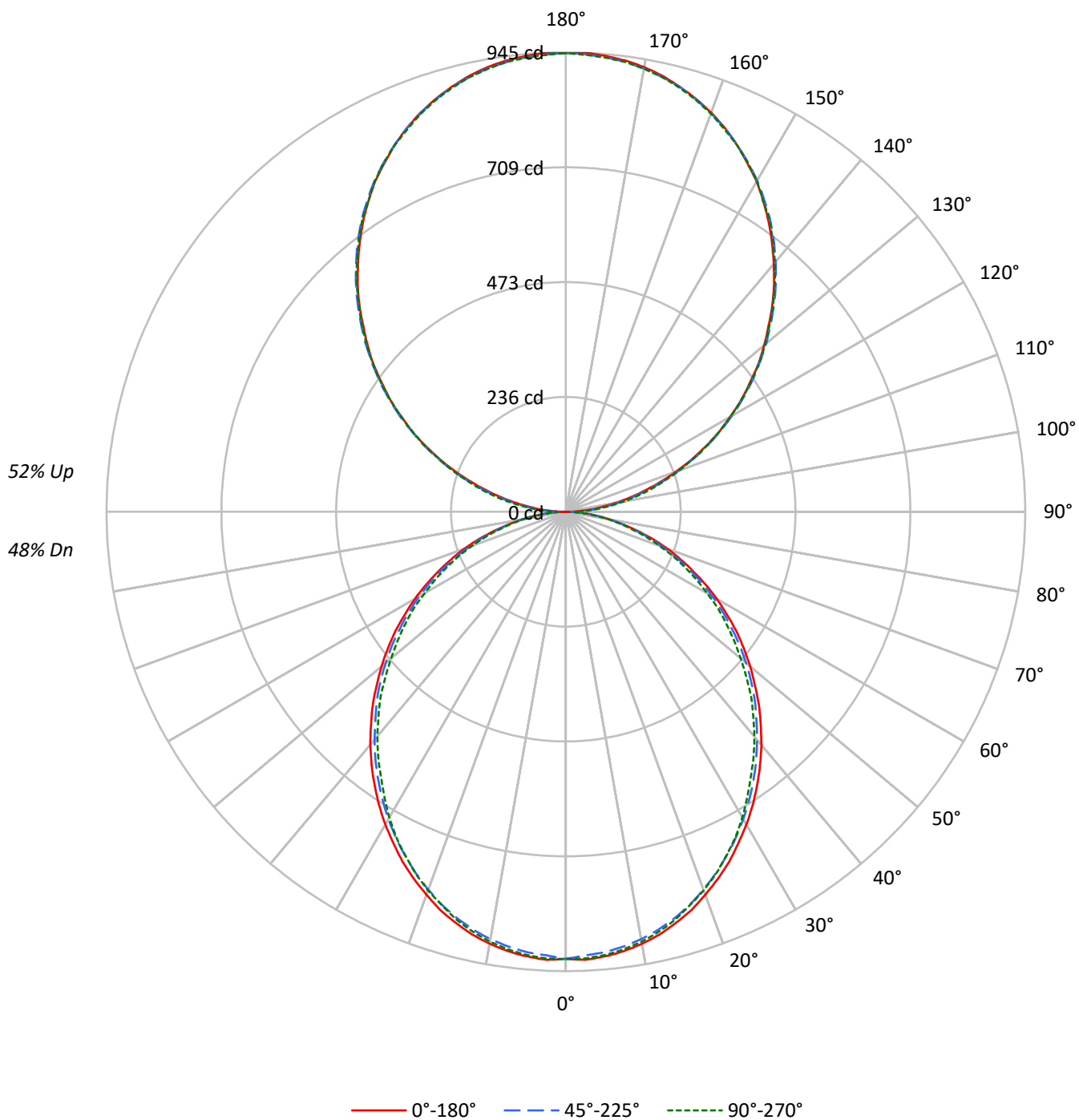
Lumens per Lamp: N/A
Luminaire Lumens: 5029.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1028190

CATALOG NUMBER: S125DIP-B610D850UB50-4F0-XX-W2A-F1

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	93	89	85	89	86	82	79	72	69	67	59	58	56	48	46	45
2	88	81	75	70	81	75	69	65	63	59	56	52	49	47	42	40	38
3	81	71	64	58	74	66	59	54	55	51	47	46	42	39	37	35	32
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28
5	68	56	48	42	62	52	45	39	44	38	34	37	33	29	30	27	24
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5893	5893	5893
5°	5893	5756	5767
10°	5845	5625	5607
15°	5768	5466	5418
20°	5664	5284	5200
25°	5553	5084	4968
30°	5419	4876	4723
35°	5275	4658	4449
40°	5127	4428	4206
45°	4966	4203	3946
50°	4789	3948	3645
55°	4615	3667	3367
60°	4406	3371	3044
65°	4157	3028	2710
70°	3904	2634	2324
75°	3476	2168	1880
80°	2963	1619	1381
85°	2287	959	763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4966 cd/sqm

TEST NUMBER: P1028190

CATALOG NUMBER: S125DIP-B610D850UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.7
10°-20°	245.2	4.9
20°-30°	361.9	7.2
30°-40°	422.3	8.4
40°-50°	424.1	8.4
50°-60°	372.3	7.4
60°-70°	277.3	5.5
70°-80°	158.4	3.1
80°-90°	47.2	0.9
90°-100°	62.7	1.2
100°-110°	186.4	3.7
110°-120°	316.1	6.3
120°-130°	416.2	8.3
130°-140°	466.4	9.3
140°-150°	457.1	9.1
150°-160°	384.0	7.6
160°-170°	255.2	5.1
170°-180°	89.3	1.8
0°-30°	693.9	13.8
0°-40°	1116.2	22.2
0°-60°	1912.6	38.0
0°-90°	2395.5	47.6
90°-120°	565.3	11.2
90°-150°	1905.0	37.9
90°-180°	2634.0	52.4
0°-180°	5029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	918	917	910	916	915	87
15°	875	873	865	869	869	247
25°	795	791	782	783	781	366
35°	686	683	673	670	664	429
45°	562	559	550	541	539	433
55°	428	426	416	409	404	382
65°	289	287	279	273	270	287
75°	154	152	148	146	143	163
85°	40	41	41	40	39	44
90°	1	7	12	15	18	6
95°	48	49	56	62	63	50
105°	167	171	176	180	182	179
115°	316	319	321	320	319	313
125°	462	466	467	466	465	414
135°	601	605	606	606	603	463
145°	728	731	733	733	731	455
155°	833	833	834	836	833	384
165°	905	904	905	908	903	255
175°	941	938	938	943	938	89
180°	944	944	944	944	944	

TEST NUMBER: P1028190

CATALOG NUMBER: S125DIP-B610D850UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.8	919.8	919.8	919.8	919.8
2.5°	922.7	920.5	913.2	920.5	919.8
5°	918.3	916.9	909.6	916.2	915.4
7.5°	911.8	910.3	902.3	908.9	908.2
10°	902.3	900.9	892.9	898.7	898.0
12.5°	890.7	887.8	880.5	884.9	884.9
15°	875.4	873.2	865.2	868.9	868.9
17.5°	859.4	855.8	847.8	852.1	848.5
20°	838.3	836.8	827.4	832.5	828.8
22.5°	817.2	814.3	805.5	808.5	806.3
25°	794.6	791.0	781.5	783.0	780.8
27.5°	768.4	766.3	756.8	757.5	755.3
30°	743.0	740.8	729.9	728.4	726.2
32.5°	715.3	711.7	702.2	699.3	694.9
35°	686.2	683.3	673.1	669.5	663.6
37.5°	656.4	652.7	643.3	638.2	634.5
40°	625.8	622.2	612.0	605.4	603.3
42.5°	593.1	590.2	580.0	574.1	570.5
45°	561.8	558.9	550.1	541.4	539.2
47.5°	527.6	528.3	517.4	508.7	503.6
50°	494.8	492.6	483.9	474.5	469.4
52.5°	461.4	459.9	450.4	442.4	436.6
55°	427.9	425.7	415.5	409.0	403.9
57.5°	392.2	391.5	382.8	374.0	371.8
60°	358.7	355.8	347.8	340.6	335.5
62.5°	323.8	321.6	315.1	307.1	303.4
65°	288.9	287.4	279.4	272.9	270.0
67.5°	254.7	251.8	246.0	240.1	238.7
70°	222.7	219.0	212.5	208.1	205.2
72.5°	187.7	185.6	181.9	176.8	173.9
75°	153.5	152.1	148.4	146.3	143.4
77.5°	121.5	120.8	118.6	117.2	115.0
80°	91.7	91.7	90.2	89.5	88.0
82.5°	65.5	64.0	64.0	62.6	62.6
85°	40.0	40.8	40.8	40.0	38.6
87.5°	19.6	19.6	18.9	18.9	17.5
90°	0.7	6.6	11.7	15.4	17.6
92.5°	22.0	25.7	32.3	37.5	38.9
95°	47.7	49.2	56.5	61.7	63.2
97.5°	73.4	74.2	84.4	88.9	89.6
100°	102.8	102.8	112.4	119.0	120.4
102.5°	134.4	138.1	141.7	149.1	151.3
105°	167.4	171.1	175.5	179.9	182.1
107.5°	203.4	207.1	210.8	213.0	213.0
110°	240.9	244.5	246.7	248.9	248.2

TEST NUMBER: P1028190

CATALOG NUMBER: S125DIP-B610D850UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.0	280.5	283.4	284.2	282.7
115°	316.5	319.4	320.9	320.2	319.4
117.5°	354.7	355.4	356.9	357.6	354.7
120°	389.9	393.6	394.3	394.3	391.4
122.5°	428.1	428.8	431.0	430.3	428.1
125°	461.9	466.3	467.0	465.6	464.8
127.5°	499.3	501.5	502.3	501.5	500.1
130°	532.4	536.1	537.5	536.8	535.3
132.5°	565.4	572.0	571.3	570.6	568.4
135°	600.7	605.1	605.8	605.8	602.9
137.5°	633.7	638.1	639.6	640.3	636.7
140°	665.3	669.0	671.2	672.6	669.0
142.5°	696.9	699.8	702.7	703.5	699.8
145°	727.7	730.7	732.9	732.9	730.7
147.5°	756.4	758.6	760.0	762.2	756.4
150°	785.0	784.3	787.2	787.2	785.7
152.5°	808.5	810.0	810.7	812.9	810.0
155°	832.7	832.7	833.5	836.4	832.7
157.5°	854.8	853.3	854.0	857.0	851.8
160°	873.8	871.6	872.4	875.3	871.6
162.5°	890.7	889.3	889.3	892.9	888.5
165°	905.4	904.0	904.7	907.6	903.2
167.5°	918.6	915.7	915.7	920.1	915.7
170°	928.9	926.0	926.0	930.4	925.2
172.5°	936.3	933.3	933.3	937.7	933.3
175°	941.4	938.5	938.5	942.9	937.7
177.5°	945.1	942.1	941.4	945.8	940.7
180°	943.6	943.6	943.6	943.6	943.6

(END OF REPORT)