

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: P1028191

Luminaire Tested: S125DIP-B610D850UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028191
REPORT IS A COMBINATION OF REPORTS P1002418 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-F4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

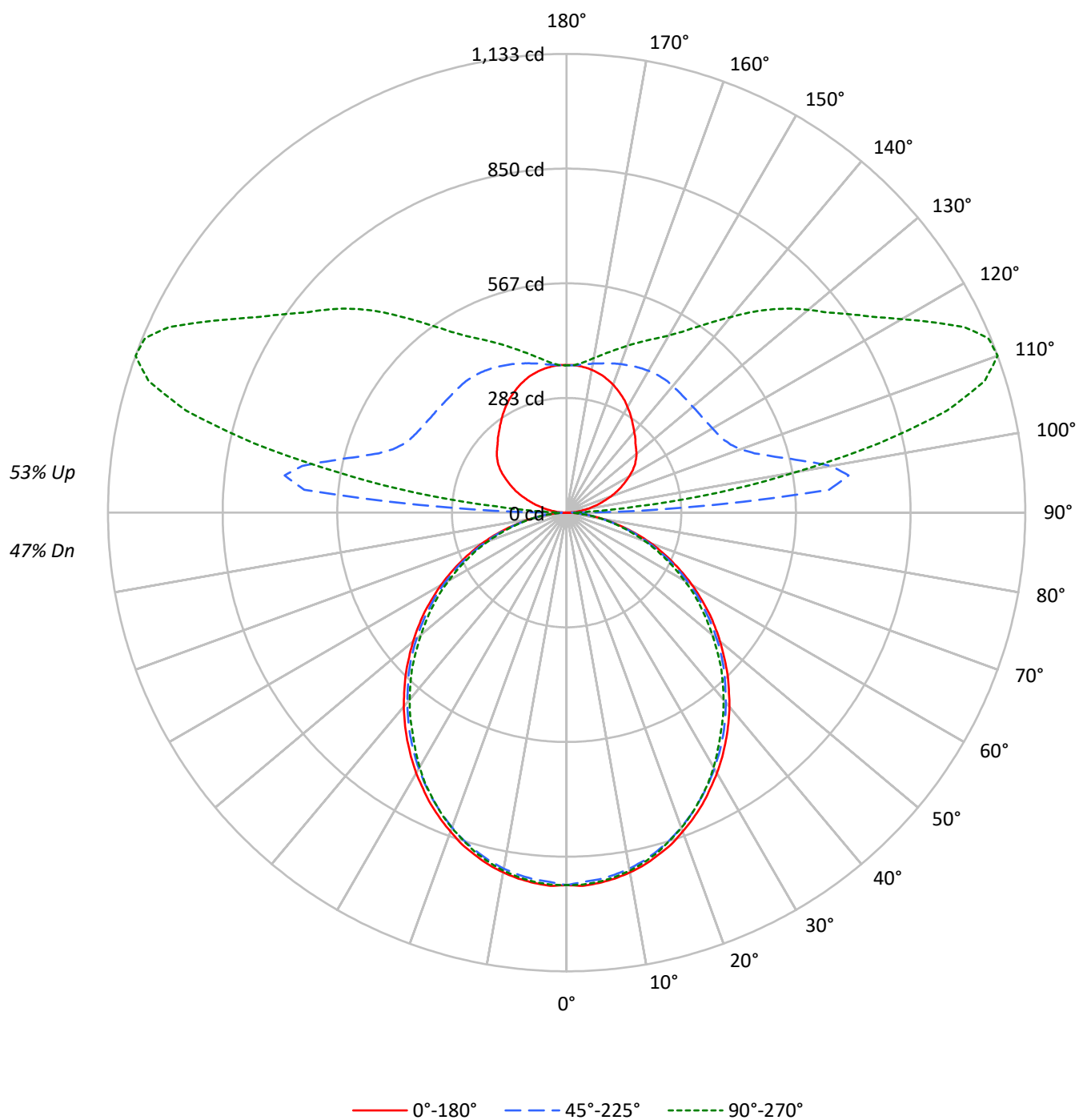
Lumens per Lamp: N/A
Luminaire Lumens: 5136.6 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53
1	97	93	89	85	89	85	82	79	71	69	67	59	57	55	47	46	45
2	88	81	75	70	81	74	69	65	62	59	55	51	49	46	41	39	38
3	80	71	64	58	74	65	59	54	55	50	46	45	42	39	36	34	32
4	74	63	55	49	67	58	51	46	49	44	39	40	37	33	33	30	27
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	29	26	24
6	62	50	42	36	57	46	39	34	39	34	30	33	29	25	27	23	21
7	57	45	37	32	53	42	35	30	36	30	26	30	26	22	24	21	19
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	17
9	50	37	30	25	46	35	28	24	30	24	21	25	21	18	21	17	15
10	46	34	27	22	43	32	25	21	27	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.7
10°-20°	245.2	4.8
20°-30°	361.9	7.0
30°-40°	422.3	8.2
40°-50°	424.1	8.3
50°-60°	372.3	7.2
60°-70°	277.3	5.4
70°-80°	158.4	3.1
80°-90°	47.2	0.9
90°-100°	274.3	5.3
100°-110°	569.7	11.1
110°-120°	532.1	10.4
120°-130°	430.6	8.4
130°-140°	345.9	6.7
140°-150°	261.1	5.1
150°-160°	183.9	3.6
160°-170°	108.4	2.1
170°-180°	35.2	0.7
0°-30°	693.9	13.5
0°-40°	1116.2	21.7
0°-60°	1912.6	37.2
0°-90°	2395.5	46.6
90°-120°	1376.1	26.8
90°-150°	2413.7	47.0
90°-180°	2741.0	53.4
0°-180°	5136.6	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	17	4
95°	24	72	651	295	173	25
105°	83	116	532	1048	973	87
115°	148	179	427	921	1084	146
125°	206	241	410	733	854	183
135°	241	290	407	614	709	187
145°	280	321	408	508	560	176
155°	320	344	398	450	469	147
165°	350	359	382	405	411	98
175°	364	364	366	371	369	35
180°	364	364	364	364	364	

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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	16.9
92.5°	11.0	60.2	293.0	78.2	54.3
95°	24.2	71.6	650.6	295.2	172.6
97.5°	37.4	77.5	702.7	533.1	378.2
100°	51.4	88.8	663.1	753.4	572.7
102.5°	66.8	101.7	593.3	939.9	790.1
105°	83.0	116.0	532.4	1048.2	972.9
107.5°	98.4	131.0	486.8	1078.6	1083.1
110°	115.3	146.9	456.7	1049.7	1133.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	132.2	162.6	439.1	989.1	1127.1
115°	148.3	178.8	427.4	921.2	1083.8
117.5°	163.0	195.3	420.7	859.5	1018.5
120°	177.7	211.1	416.3	807.7	955.3
122.5°	193.1	226.5	412.7	766.2	899.5
125°	205.6	240.8	409.7	732.8	854.0
127.5°	215.9	254.8	408.3	704.2	812.1
130°	225.4	268.0	406.8	675.2	779.1
132.5°	232.8	279.8	406.8	644.0	746.0
135°	240.8	289.7	406.8	614.2	709.3
137.5°	251.1	298.8	407.5	583.0	671.1
140°	259.9	306.6	408.3	554.4	630.8
142.5°	270.2	313.9	409.0	529.8	593.3
145°	280.5	321.2	408.3	508.5	559.5
147.5°	291.5	327.8	406.8	490.1	529.4
150°	301.1	333.8	404.6	475.1	505.2
152.5°	311.3	339.6	401.7	462.2	486.1
155°	320.1	344.4	398.0	449.8	469.2
157.5°	328.2	349.2	394.3	438.0	453.8
160°	336.3	352.8	390.6	426.2	438.4
162.5°	342.9	356.5	386.2	415.6	424.4
165°	349.5	359.1	381.8	405.0	411.2
167.5°	353.9	360.6	377.4	395.0	398.7
170°	358.3	362.4	373.8	385.5	387.7
172.5°	361.3	363.1	369.3	377.8	377.4
175°	363.5	363.5	366.4	370.8	369.3
177.5°	364.9	363.5	364.2	366.4	364.2
180°	364.2	364.2	364.2	364.2	364.2

(END OF REPORT)