

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: P1028014

Luminaire Tested: S125DIP-B610D1090UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028014
REPORT IS A COMBINATION OF REPORTS P1002178 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1090UB50-4F0-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

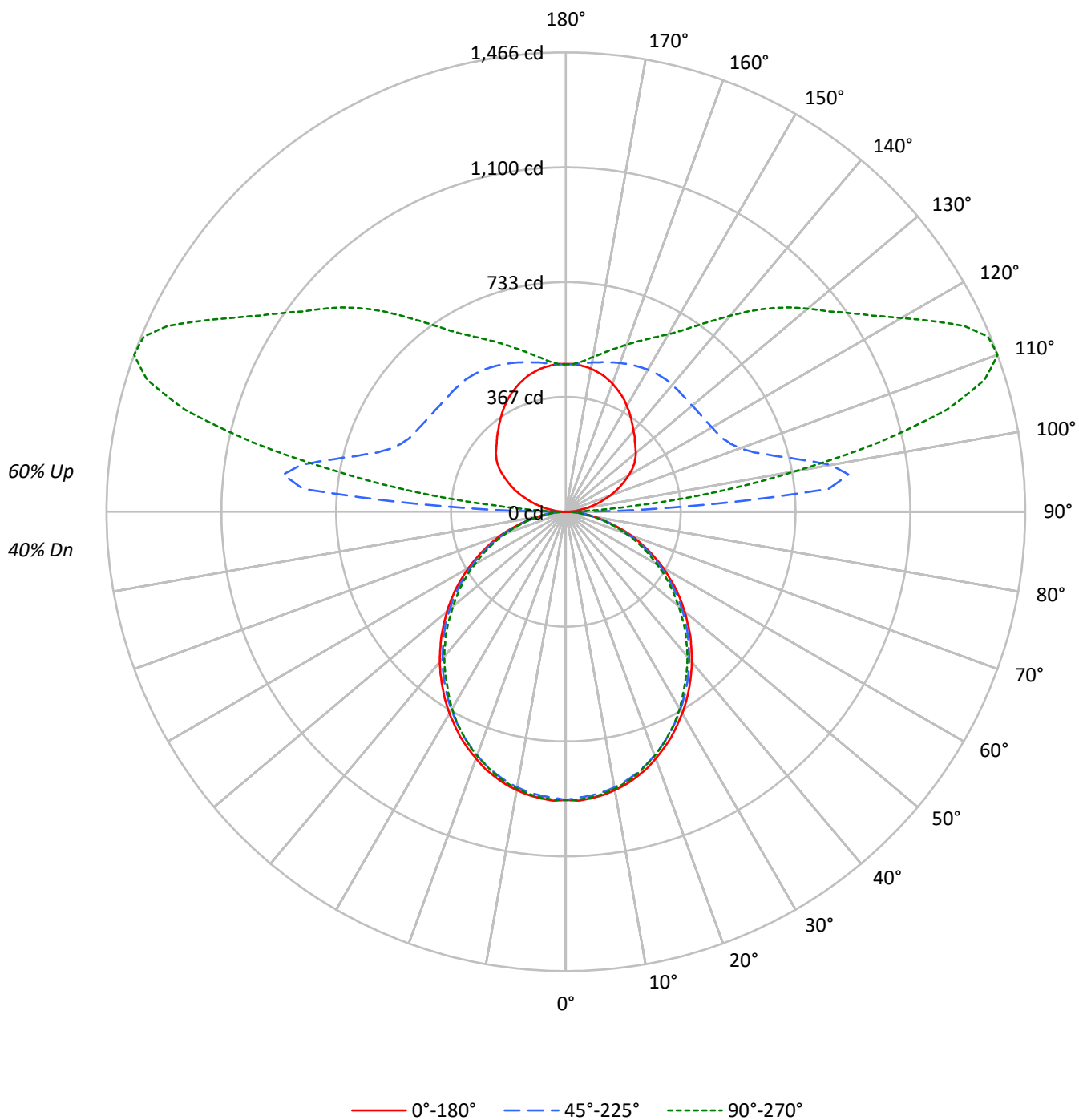
Lumens per Lamp: N/A
Luminaire Lumens: 5943.2 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 52.5
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: P1028014

CATALOG NUMBER: S125DIP-B610D1090UB50-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1028014

CATALOG NUMBER: S125DIP-B610D1090UB50-4F0-XX-W2A-F4

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	95	95	95	95	78	78	78	62	62	62	47	47	47
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40
2	87	80	74	68	79	73	68	63	60	56	53	48	45	43	37	35	33
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	26	24
5	66	55	47	41	60	50	43	38	42	36	32	34	30	27	26	23	21
6	61	49	41	36	56	45	38	33	38	32	28	30	26	23	24	21	19
7	57	44	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13
10	45	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12

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: P1028014

CATALOG NUMBER: S125DIP-B610D1090UB50-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.5
10°-20°	245.2	4.1
20°-30°	361.9	6.1
30°-40°	422.3	7.1
40°-50°	424.1	7.1
50°-60°	372.3	6.3
60°-70°	277.3	4.7
70°-80°	158.4	2.7
80°-90°	47.6	0.8
90°-100°	354.9	6.0
100°-110°	737.2	12.4
110°-120°	688.6	11.6
120°-130°	557.2	9.4
130°-140°	447.7	7.5
140°-150°	337.9	5.7
150°-160°	237.9	4.0
160°-170°	140.2	2.4
170°-180°	45.6	0.8
0°-30°	693.9	11.7
0°-40°	1116.2	18.8
0°-60°	1912.6	32.2
0°-90°	2395.9	40.3
90°-120°	1780.8	30.0
90°-150°	3123.6	52.6
90°-180°	3547.0	59.7
0°-180°	5943.2	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	9	15	20	22	5
95°	31	93	842	382	223	33
105°	107	150	689	1356	1259	113
115°	192	231	553	1192	1403	189
125°	266	312	530	948	1105	236
135°	312	375	526	795	918	242
145°	363	416	528	658	724	228
155°	414	446	515	582	607	191
165°	452	465	494	524	532	127
175°	470	470	474	480	478	45
180°	471	471	471	471	471	

TEST NUMBER: P1028014

CATALOG NUMBER: S125DIP-B610D1090UB50-4F0-XX-W2A-F4

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°	1.0	8.6	15.2	20.0	21.9
92.5°	14.3	77.9	379.2	101.2	70.3
95°	31.4	92.6	841.9	382.0	223.3
97.5°	48.5	100.2	909.4	689.9	489.4
100°	66.5	115.0	858.1	975.0	741.2
102.5°	86.5	131.6	767.8	1216.4	1022.5
105°	107.4	150.1	688.9	1356.5	1259.1
107.5°	127.3	169.6	630.0	1395.9	1401.6
110°	149.2	190.0	591.1	1358.4	1466.2

TEST NUMBER: P1028014

CATALOG NUMBER: S125DIP-B610D1090UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.0	210.5	568.3	1280.0	1458.6
115°	192.0	231.4	553.0	1192.1	1402.6
117.5°	211.0	252.8	544.5	1112.2	1318.0
120°	230.0	273.2	538.8	1045.3	1236.3
122.5°	249.9	293.2	534.0	991.6	1164.1
125°	266.1	311.6	530.2	948.4	1105.1
127.5°	279.4	329.8	528.3	911.3	1051.0
130°	291.7	346.8	526.4	873.8	1008.2
132.5°	301.2	362.0	526.4	833.4	965.5
135°	311.7	374.8	526.4	794.9	917.9
137.5°	325.0	386.8	527.4	754.5	868.5
140°	336.4	396.8	528.3	717.4	816.3
142.5°	349.7	406.2	529.3	685.6	767.8
145°	363.0	415.8	528.3	658.0	724.1
147.5°	377.3	424.3	526.4	634.3	685.1
150°	389.6	431.9	523.6	614.8	653.8
152.5°	402.9	439.5	519.8	598.2	629.1
155°	414.3	445.6	515.0	582.0	607.2
157.5°	424.8	451.8	510.3	566.8	587.3
160°	435.2	456.6	505.5	551.6	567.3
162.5°	443.8	461.4	499.8	537.8	549.2
165°	452.3	464.6	494.1	524.0	532.1
167.5°	458.0	466.6	488.4	511.2	516.0
170°	463.7	469.0	483.7	498.8	501.7
172.5°	467.5	469.9	478.0	488.9	488.4
175°	470.4	470.4	474.2	479.9	478.0
177.5°	472.3	470.4	471.3	474.2	471.3
180°	471.3	471.3	471.3	471.3	471.3

(END OF REPORT)