

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: P1028012

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028012
REPORT IS A COMBINATION OF REPORTS P1002176 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-F
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

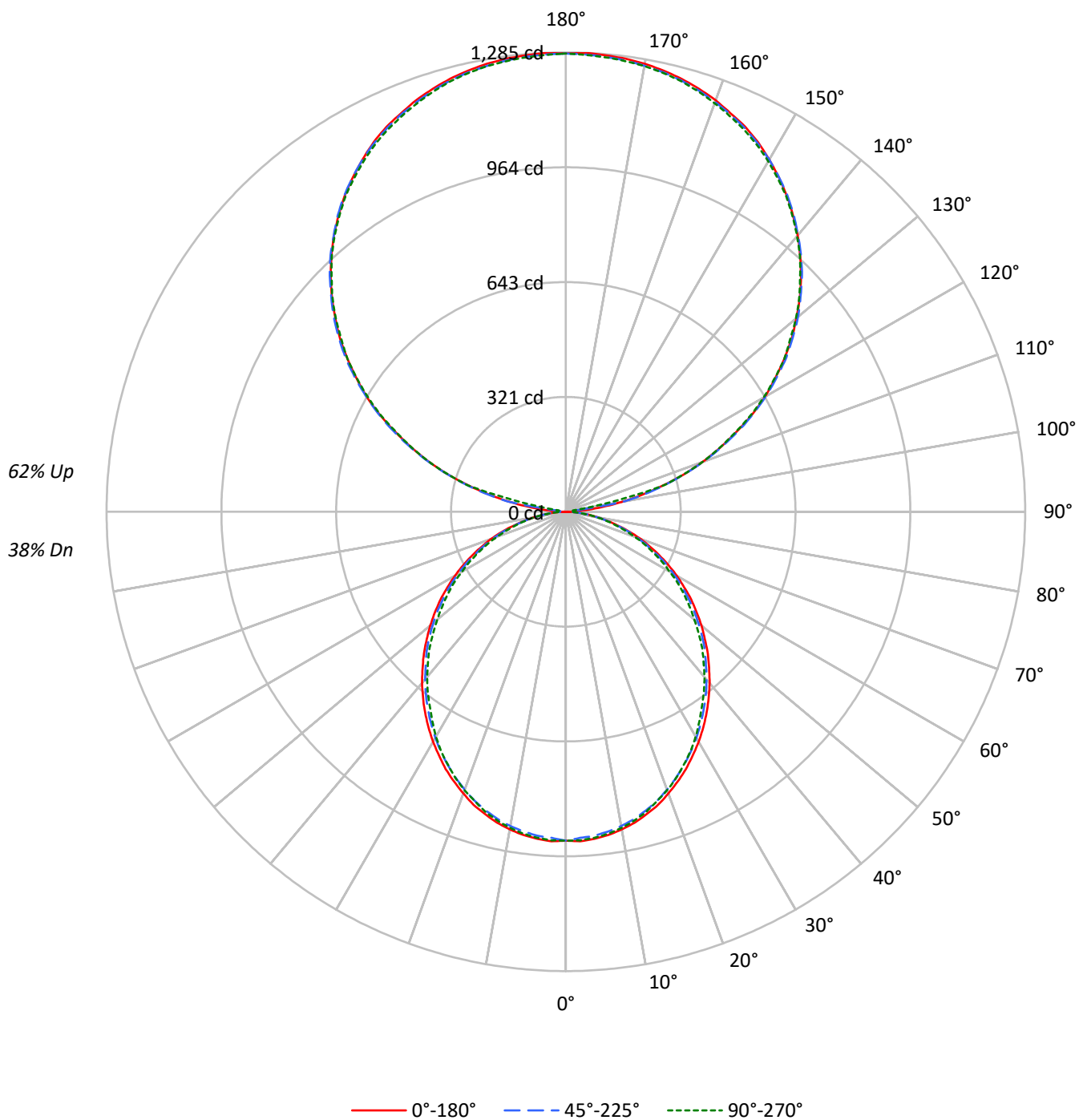
Lumens per Lamp: N/A
Luminaire Lumens: 6334.1 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1028012

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

Luminous Intensity Polar Plot



TEST NUMBER: P1028012

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

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	91	87	83	86	82	79	76	67	65	63	53	51	50	40	39	38
2	86	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32
3	79	70	62	57	71	63	57	52	52	47	43	41	38	35	31	29	27
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	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: P1028012

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.4
10°-20°	245.2	3.9
20°-30°	361.9	5.7
30°-40°	422.3	6.7
40°-50°	424.1	6.7
50°-60°	372.3	5.9
60°-70°	277.3	4.4
70°-80°	158.4	2.5
80°-90°	47.6	0.8
90°-100°	43.5	0.7
100°-110°	289.3	4.6
110°-120°	521.0	8.2
120°-130°	668.8	10.6
130°-140°	719.3	11.4
140°-150°	675.1	10.7
150°-160°	546.1	8.6
160°-170°	353.2	5.6
170°-180°	121.8	1.9
0°-30°	693.9	11.0
0°-40°	1116.2	17.6
0°-60°	1912.6	30.2
0°-90°	2395.9	37.8
90°-120°	853.9	13.5
90°-150°	2917.1	46.1
90°-180°	3938.0	62.2
0°-180°	6334.1	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	23	5
95°	54	51	15	20	20	66
105°	279	283	283	283	282	296
115°	525	529	530	526	521	520
125°	746	753	753	749	746	666
135°	930	936	934	932	927	717
145°	1079	1080	1080	1082	1076	675
155°	1188	1182	1184	1187	1179	547
165°	1254	1248	1249	1254	1247	354
175°	1282	1276	1277	1285	1276	122
180°	1282	1282	1282	1282	1282	

TEST NUMBER: P1028012

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

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	22.8
92.5°	18.1	9.5	15.2	20.0	20.9
95°	54.2	51.3	15.2	20.0	20.0
97.5°	101.7	107.4	17.1	19.0	20.0
100°	158.7	161.6	165.4	23.8	20.0
102.5°	216.7	220.5	222.4	224.3	144.5
105°	279.4	283.2	283.2	283.2	282.3
107.5°	344.0	344.0	345.9	346.9	343.1
110°	406.7	406.7	408.7	405.8	406.7

TEST NUMBER: P1028012

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	465.7	468.5	469.5	465.7	463.8
115°	524.6	529.3	530.3	526.5	520.8
117.5°	586.4	586.4	590.2	584.5	582.6
120°	643.4	642.4	645.3	643.4	638.6
122.5°	693.8	698.5	699.5	697.6	691.9
125°	746.0	752.7	752.7	748.9	746.0
127.5°	796.4	801.1	800.2	798.3	790.7
130°	842.0	846.8	847.7	844.9	840.1
132.5°	887.6	893.3	890.5	890.5	885.7
135°	930.4	936.1	934.2	932.3	926.6
137.5°	970.3	976.0	974.1	974.1	969.4
140°	1009.3	1011.2	1010.2	1012.1	1006.4
142.5°	1044.4	1045.4	1047.3	1047.3	1041.6
145°	1078.6	1080.5	1080.5	1081.5	1075.8
147.5°	1109.1	1109.1	1110.0	1111.0	1104.3
150°	1137.6	1135.7	1137.6	1139.5	1131.9
152.5°	1165.1	1160.4	1162.3	1164.2	1157.5
155°	1187.9	1182.2	1184.1	1187.0	1179.4
157.5°	1206.0	1203.1	1203.1	1206.0	1198.4
160°	1225.0	1219.3	1220.2	1224.1	1216.4
162.5°	1240.2	1234.5	1235.5	1241.2	1232.6
165°	1253.5	1247.8	1248.8	1254.5	1246.9
167.5°	1264.0	1258.3	1259.2	1265.9	1257.3
170°	1272.5	1265.9	1266.8	1274.4	1265.9
172.5°	1278.2	1271.6	1273.5	1280.1	1271.6
175°	1282.0	1276.3	1277.3	1284.9	1276.3
177.5°	1284.9	1279.2	1280.1	1286.8	1279.2
180°	1282.0	1282.0	1282.0	1282.0	1282.0

(END OF REPORT)