

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: P1028515

Luminaire Tested: S125RDIP-B1090D610UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028515
REPORT IS A COMBINATION OF REPORTS P1005060 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D610UB30-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

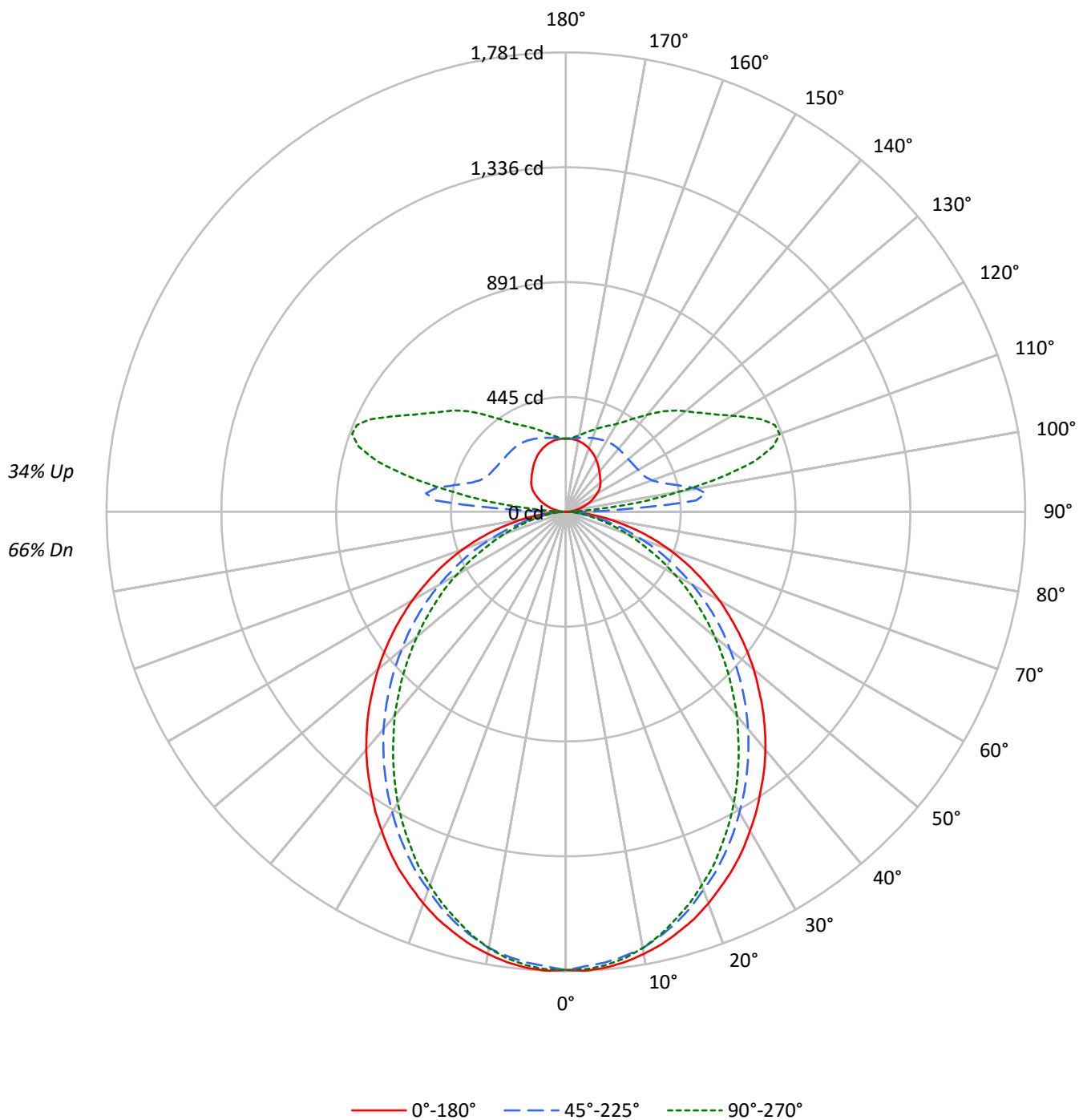
Lumens per Lamp: N/A
Luminaire Lumens: 6333.4 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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: P1028515

CATALOG NUMBER: S125RDIP-B1090D610UB30-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1028515

CATALOG NUMBER: S125RDIP-B1090D610UB30-4F0-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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71
1	102	97	94	90	96	92	89	85	82	79	77	72	70	68	63	62	61
2	93	85	79	74	87	81	75	71	72	68	64	64	60	58	56	54	52
3	85	75	68	62	80	71	65	59	64	58	54	57	52	49	50	47	44
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38
5	72	60	52	46	67	57	49	44	51	45	40	46	41	37	40	37	34
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	37	33	30
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	34	30	26
8	57	44	37	31	54	42	35	30	38	32	28	35	30	26	31	27	24
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22
10	50	38	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11384	11384	11384
5°	11385	11100	11118
10°	11275	10821	10726
15°	11115	10429	10209
20°	10918	9958	9667
25°	10691	9498	9086
30°	10414	8992	8476
35°	10131	8479	7827
40°	9862	7951	7194
45°	9538	7382	6531
50°	9210	6778	5856
55°	8829	6182	5157
60°	8439	5502	4432
65°	7976	4741	3650
70°	7434	3859	2872
75°	6684	2902	2093
80°	5639	1880	1411
85°	4220	1009	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9538 cd/sqm

TEST NUMBER: P1028515

CATALOG NUMBER: S125RDIP-B1090D610UB30-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	2.6
10°-20°	467.3	7.4
20°-30°	677.6	10.7
30°-40°	772.0	12.2
40°-50°	752.5	11.9
50°-60°	633.3	10.0
60°-70°	443.8	7.0
70°-80°	227.5	3.6
80°-90°	57.9	0.9
90°-100°	213.5	3.4
100°-110°	443.6	7.0
110°-120°	414.3	6.5
120°-130°	335.2	5.3
130°-140°	269.3	4.3
140°-150°	203.3	3.2
150°-160°	143.1	2.3
160°-170°	84.4	1.3
170°-180°	27.4	0.4
0°-30°	1312.2	20.7
0°-40°	2084.2	32.9
0°-60°	3470.0	54.8
0°-90°	4199.1	66.3
90°-120°	1071.4	16.9
90°-150°	1879.3	29.7
90°-180°	2134.0	33.7
0°-180°	6333.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1774	1769	1754	1767	1765	168
15°	1687	1679	1651	1649	1637	476
25°	1530	1510	1460	1443	1428	704
35°	1318	1286	1225	1186	1168	825
45°	1079	1040	966	913	892	832
55°	819	776	700	640	619	732
65°	554	509	438	384	364	549
75°	295	255	199	169	160	312
85°	74	50	43	42	40	81
90°	1	5	9	12	13	6
95°	19	56	506	230	134	20
105°	65	90	414	816	758	68
115°	116	139	333	717	844	114
125°	160	188	319	571	665	142
135°	188	226	317	478	552	146
145°	218	250	318	396	436	137
155°	249	268	310	350	365	115
165°	272	280	297	315	320	77
175°	283	283	285	289	288	27
180°	284	284	284	284	284	

TEST NUMBER: P1028515

CATALOG NUMBER: S125RDIP-B1090D610UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.8	1776.8	1776.8	1776.8	1776.8
2.5°	1780.8	1776.8	1763.4	1776.8	1775.5
5°	1774.1	1768.8	1754.0	1767.4	1764.7
7.5°	1760.7	1755.4	1737.9	1748.6	1746.0
10°	1740.6	1736.6	1717.8	1721.8	1717.8
12.5°	1717.8	1712.4	1685.6	1688.3	1681.5
15°	1686.9	1678.9	1650.7	1649.3	1637.3
17.5°	1654.7	1642.6	1609.1	1602.4	1593.0
20°	1615.8	1602.4	1559.4	1552.7	1540.6
22.5°	1572.8	1559.4	1513.8	1499.0	1489.6
25°	1529.9	1509.8	1460.1	1442.7	1427.9
27.5°	1481.6	1457.4	1405.1	1382.3	1367.5
30°	1427.9	1402.4	1346.0	1315.2	1303.1
32.5°	1375.6	1344.7	1287.0	1252.1	1236.0
35°	1317.9	1285.6	1225.3	1186.3	1167.5
37.5°	1262.8	1223.9	1162.2	1116.6	1097.8
40°	1203.8	1163.5	1099.1	1048.1	1032.0
42.5°	1142.1	1100.4	1033.3	985.0	959.5
45°	1079.0	1040.1	966.2	912.6	892.4
47.5°	1013.2	973.0	899.1	844.1	821.3
50°	951.5	907.2	830.7	774.3	754.2
52.5°	884.4	838.8	767.6	705.9	685.8
55°	818.6	775.7	700.5	640.1	618.7
57.5°	751.5	705.9	633.4	574.4	555.6
60°	687.1	640.1	567.7	508.6	488.5
62.5°	618.7	574.4	500.6	446.9	426.8
65°	554.3	508.6	437.5	383.8	363.7
67.5°	489.8	444.2	375.8	324.8	308.7
70°	424.1	378.4	311.3	269.7	253.6
72.5°	359.7	315.4	253.6	216.1	206.7
75°	295.2	255.0	198.6	169.1	159.7
77.5°	229.5	197.3	150.3	127.5	119.4
80°	174.5	142.3	104.7	92.6	89.9
82.5°	120.8	92.6	69.8	65.8	64.4
85°	73.8	49.7	42.9	41.6	40.3
87.5°	30.9	21.5	20.1	20.1	18.8
90°	0.6	5.2	9.1	12.0	13.1
92.5°	8.6	46.9	228.1	60.9	42.3
95°	18.9	55.8	506.5	229.8	134.4
97.5°	29.2	60.3	547.1	415.1	294.4
100°	40.0	69.2	516.3	586.6	445.9
102.5°	52.0	79.2	461.9	731.8	615.2
105°	64.6	90.3	414.5	816.2	757.5
107.5°	76.6	102.1	379.0	839.8	843.3
110°	89.8	114.4	355.6	817.3	882.1

TEST NUMBER: P1028515

CATALOG NUMBER: S125RDIP-B1090D610UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.9	126.6	341.9	770.1	877.6
115°	115.5	139.2	332.7	717.2	843.8
117.5°	126.9	152.0	327.6	669.2	793.0
120°	138.4	164.4	324.2	628.8	743.8
122.5°	150.4	176.4	321.3	596.6	700.3
125°	160.1	187.6	319.0	570.6	664.9
127.5°	168.1	198.4	317.9	548.2	632.3
130°	175.5	208.6	316.7	525.7	606.6
132.5°	181.2	217.8	316.7	501.4	580.9
135°	187.5	225.6	316.7	478.2	552.3
137.5°	195.5	232.7	317.3	453.9	522.5
140°	202.4	238.7	317.9	431.6	491.1
142.5°	210.4	244.4	318.4	412.5	461.9
145°	218.4	250.1	317.9	395.9	435.6
147.5°	227.0	255.3	316.7	381.6	412.2
150°	234.4	259.8	315.0	369.9	393.3
152.5°	242.4	264.4	312.7	359.9	378.5
155°	249.3	268.1	309.9	350.2	365.3
157.5°	255.6	271.8	307.0	341.0	353.3
160°	261.8	274.7	304.1	331.9	341.3
162.5°	267.0	277.6	300.7	323.6	330.4
165°	272.1	279.6	297.3	315.3	320.2
167.5°	275.6	280.8	293.9	307.5	310.4
170°	279.0	282.2	291.0	300.2	301.9
172.5°	281.3	282.7	287.6	294.2	293.9
175°	283.0	283.0	285.3	288.7	287.6
177.5°	284.1	283.0	283.6	285.3	283.6
180°	283.6	283.6	283.6	283.6	283.6

(END OF REPORT)