

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: P1027090

Luminaire Tested: S125RDIP-B1090D610UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027090
REPORT IS A COMBINATION OF REPORTS P1005051 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D610UB2750-4F0-XX-W2A-F_3000K
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

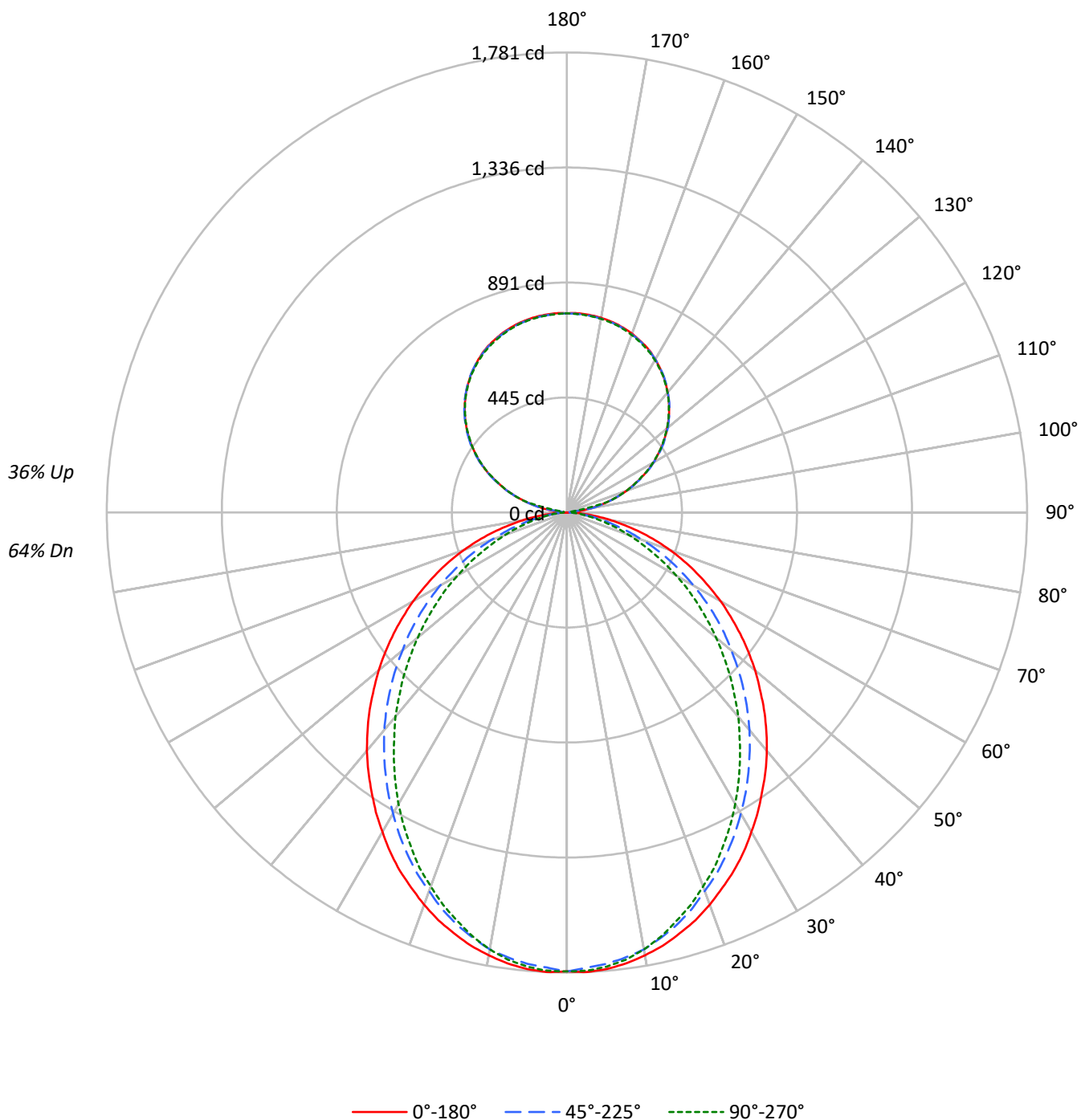
Lumens per Lamp: N/A
Luminaire Lumens: 6568.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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: P1027090

CATALOG NUMBER: S125RDIP-B1090D610UB2750-4F0-XX-W2A-F_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1027090

CATALOG NUMBER: S125RDIP-B1090D610UB2750-4F0-XX-W2A-F_3000K

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	50	30	10
RCR																				
0	110	110	110	110	104	104	104	104	91	91	91	80	80	80	69	69	69	64		
1	101	97	93	90	95	91	88	85	80	78	76	71	69	67	61	60	59	54		
2	92	85	79	74	87	80	75	70	71	67	63	62	59	56	54	52	50	46		
3	84	75	68	62	79	71	64	59	63	58	53	55	51	48	48	45	43	39		
4	77	67	59	52	72	63	56	50	56	50	46	49	45	41	43	40	37	34		
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	39	36	32	30		
6	66	54	45	39	62	51	43	38	45	39	35	40	35	32	36	32	29	26		
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23		
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	30	26	23	21		
9	53	40	33	28	50	38	31	27	35	29	25	31	26	23	28	24	21	19		
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17		

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: P1027090

CATALOG NUMBER: S125RDIP-B1090D610UB2750-4F0-XX-W2A-F_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	2.5
10°-20°	467.3	7.1
20°-30°	677.6	10.3
30°-40°	772.0	11.8
40°-50°	752.5	11.5
50°-60°	633.3	9.6
60°-70°	443.8	6.8
70°-80°	227.5	3.5
80°-90°	57.9	0.9
90°-100°	26.2	0.4
100°-110°	174.1	2.7
110°-120°	313.4	4.8
120°-130°	402.3	6.1
130°-140°	432.7	6.6
140°-150°	406.1	6.2
150°-160°	328.5	5.0
160°-170°	212.4	3.2
170°-180°	73.3	1.1
0°-30°	1312.2	20.0
0°-40°	2084.2	31.7
0°-60°	3470.0	52.8
0°-90°	4199.1	63.9
90°-120°	513.6	7.8
90°-150°	1754.7	26.7
90°-180°	2369.0	36.1
0°-180°	6568.0	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	14	6
95°	33	31	9	12	12	40
105°	168	170	170	170	170	178
115°	316	318	319	317	313	313
125°	449	453	453	450	449	401
135°	560	563	562	561	557	431
145°	649	650	650	650	647	406
155°	715	711	712	714	709	329
165°	754	751	751	755	750	213
175°	771	768	768	773	768	73
180°	771	771	771	771	771	

TEST NUMBER: P1027090

CATALOG NUMBER: S125RDIP-B1090D610UB2750-4F0-XX-W2A-F_3000K

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	5.1	9.1	12.0	13.7
92.5°	10.9	5.7	9.1	12.0	12.6
95°	32.6	30.9	9.1	12.0	12.0
97.5°	61.2	64.6	10.3	11.4	12.0
100°	95.5	97.2	99.5	14.3	12.0
102.5°	130.3	132.6	133.8	134.9	86.9
105°	168.1	170.4	170.4	170.4	169.8
107.5°	206.9	206.9	208.1	208.7	206.4
110°	244.7	244.7	245.8	244.1	244.7



TEST NUMBER: P1027090

CATALOG NUMBER: S125RDIP-B1090D610UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	280.1	281.8	282.4	280.1	279.0
115°	315.6	318.4	319.0	316.7	313.3
117.5°	352.7	352.7	355.0	351.6	350.4
120°	387.0	386.4	388.2	387.0	384.2
122.5°	417.3	420.2	420.7	419.6	416.2
125°	448.8	452.8	452.8	450.5	448.8
127.5°	479.0	481.9	481.3	480.2	475.6
130°	506.5	509.3	509.9	508.2	505.3
132.5°	533.9	537.4	535.6	535.6	532.8
135°	559.7	563.1	561.9	560.8	557.4
137.5°	583.7	587.1	585.9	585.9	583.1
140°	607.1	608.2	607.7	608.8	605.4
142.5°	628.3	628.8	630.0	630.0	626.5
145°	648.8	650.0	650.0	650.5	647.1
147.5°	667.1	667.1	667.7	668.3	664.3
150°	684.3	683.1	684.3	685.4	680.8
152.5°	700.9	698.0	699.1	700.3	696.3
155°	714.6	711.1	712.3	714.0	709.4
157.5°	725.4	723.7	723.7	725.4	720.9
160°	736.9	733.4	734.0	736.3	731.7
162.5°	746.0	742.6	743.2	746.6	741.4
165°	754.0	750.6	751.2	754.6	750.0
167.5°	760.3	756.9	757.4	761.4	756.3
170°	765.4	761.4	762.0	766.6	761.4
172.5°	768.9	764.9	766.0	770.0	764.9
175°	771.2	767.7	768.3	772.9	767.7
177.5°	772.9	769.5	770.0	774.0	769.5
180°	771.2	771.2	771.2	771.2	771.2

(END OF REPORT)