

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: P1027091

Luminaire Tested: S125RDIP-B1090D610UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027091
REPORT IS A COMBINATION OF REPORTS P1005052 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_3500K
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

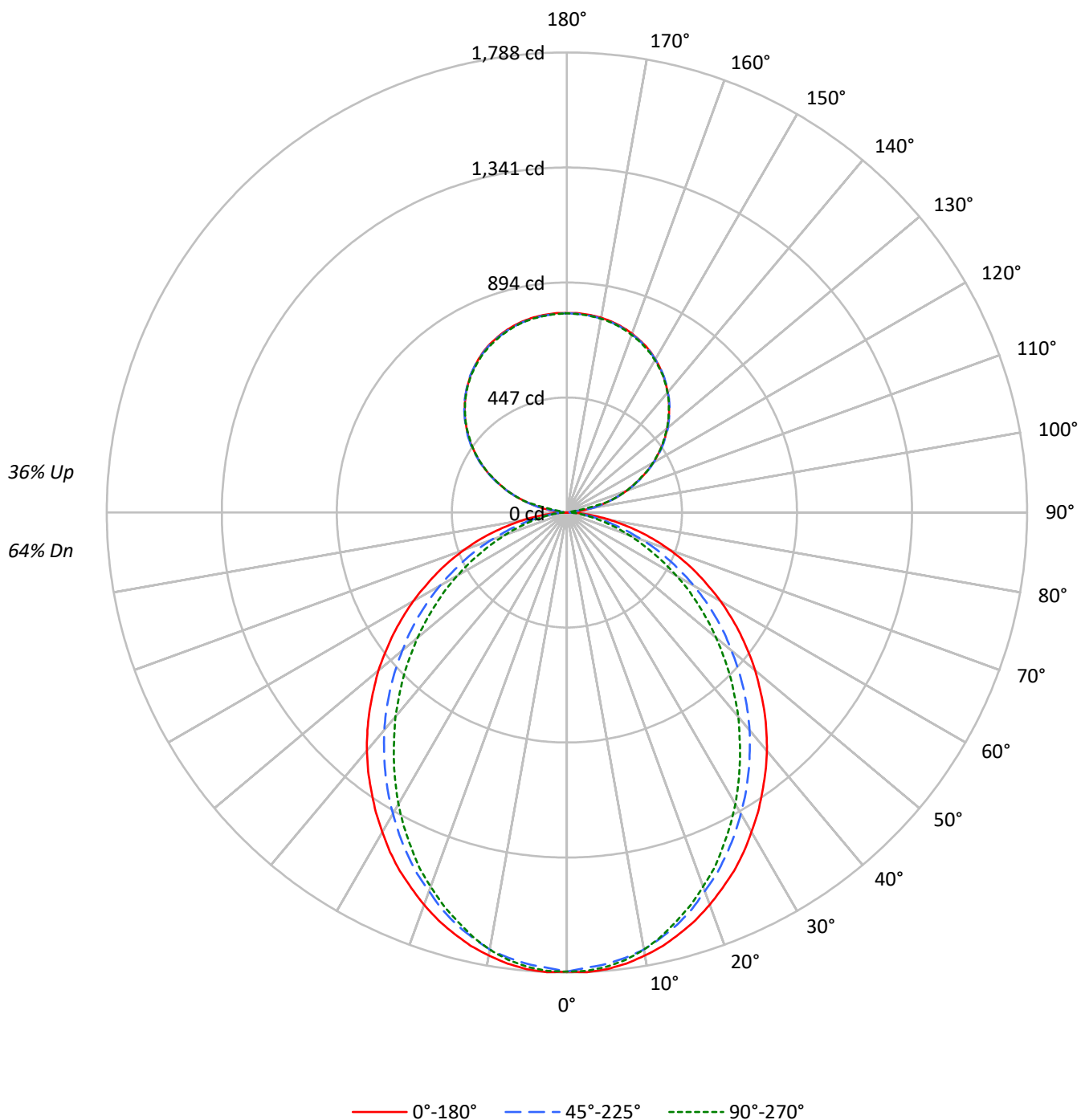
Lumens per Lamp: N/A
Luminaire Lumens: 6596.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11433	11433	11433
5°	11434	11148	11166
10°	11323	10867	10771
15°	11162	10474	10253
20°	10964	10001	9708
25°	10737	9539	9125
30°	10458	9031	8512
35°	10174	8515	7861
40°	9903	7985	7225
45°	9579	7414	6560
50°	9250	6807	5881
55°	8867	6209	5179
60°	8476	5525	4451
65°	8009	4762	3665
70°	7466	3876	2884
75°	6714	2915	2102
80°	5662	1887	1418
85°	4237	1013	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	2.5
10°-20°	469.3	7.1
20°-30°	680.5	10.3
30°-40°	775.3	11.8
40°-50°	755.7	11.5
50°-60°	636.0	9.6
60°-70°	445.7	6.8
70°-80°	228.5	3.5
80°-90°	58.1	0.9
90°-100°	26.3	0.4
100°-110°	174.8	2.6
110°-120°	314.7	4.8
120°-130°	404.0	6.1
130°-140°	434.5	6.6
140°-150°	407.8	6.2
150°-160°	329.9	5.0
160°-170°	213.3	3.2
170°-180°	73.6	1.1
0°-30°	1317.8	20.0
0°-40°	2093.2	31.7
0°-60°	3484.9	52.8
0°-90°	4217.2	63.9
90°-120°	515.8	7.8
90°-150°	1762.1	26.7
90°-180°	2379.0	36.1
0°-180°	6596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1782	1776	1762	1775	1772	169
15°	1694	1686	1658	1656	1644	478
25°	1536	1516	1466	1449	1434	707
35°	1324	1291	1230	1191	1173	829
45°	1084	1044	970	916	896	836
55°	822	779	704	643	621	735
65°	557	511	439	386	365	551
75°	296	256	200	170	160	313
85°	74	50	43	42	40	81
90°	1	5	9	12	14	6
95°	33	31	9	12	12	40
105°	169	171	171	171	170	179
115°	317	320	320	318	315	314
125°	451	455	455	452	451	403
135°	562	566	564	563	560	433
145°	652	653	653	653	650	408
155°	718	714	715	717	712	331
165°	757	754	754	758	753	214
175°	774	771	772	776	771	74
180°	774	774	774	774	774	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	1788.5	1784.4	1771.0	1784.4	1783.1
5°	1781.7	1776.4	1761.5	1775.0	1772.3
7.5°	1768.3	1762.9	1745.4	1756.1	1753.4
10°	1748.1	1744.0	1725.1	1729.2	1725.1
12.5°	1725.1	1719.7	1692.8	1695.5	1688.8
15°	1694.1	1686.1	1657.8	1656.4	1644.3
17.5°	1661.8	1649.7	1616.0	1609.2	1599.8
20°	1622.7	1609.2	1566.1	1559.4	1547.2
22.5°	1579.6	1566.1	1520.3	1505.5	1496.0
25°	1536.5	1516.2	1466.4	1448.8	1434.0
27.5°	1487.9	1463.7	1411.1	1388.2	1373.4
30°	1434.0	1408.4	1351.8	1320.8	1308.7
32.5°	1381.5	1350.5	1292.5	1257.5	1241.3
35°	1323.5	1291.2	1230.5	1191.4	1172.6
37.5°	1268.2	1229.2	1167.2	1121.3	1102.5
40°	1208.9	1168.5	1103.8	1052.6	1036.4
42.5°	1146.9	1105.2	1037.8	989.3	963.7
45°	1083.6	1044.5	970.4	916.5	896.3
47.5°	1017.6	977.1	903.0	847.7	824.8
50°	955.6	911.1	834.3	777.7	757.4
52.5°	888.2	842.4	770.9	708.9	688.7
55°	822.1	779.0	703.5	642.9	621.3
57.5°	754.7	708.9	636.1	576.8	558.0
60°	690.1	642.9	570.1	510.8	490.6
62.5°	621.3	576.8	502.7	448.8	428.6
65°	556.6	510.8	439.4	385.5	365.2
67.5°	491.9	446.1	377.4	326.2	310.0
70°	425.9	380.1	312.7	270.9	254.7
72.5°	361.2	316.7	254.7	217.0	207.6
75°	296.5	256.1	199.5	169.8	160.4
77.5°	230.5	198.1	150.9	128.0	120.0
80°	175.2	142.9	105.1	93.0	90.3
82.5°	121.3	93.0	70.1	66.0	64.7
85°	74.1	49.9	43.1	41.8	40.4
87.5°	31.0	21.6	20.2	20.2	18.9
90°	0.6	5.2	9.2	12.1	13.8
92.5°	10.9	5.7	9.2	12.1	12.6
95°	32.7	31.0	9.2	12.1	12.1
97.5°	61.4	64.9	10.3	11.5	12.1
100°	95.9	97.6	99.9	14.4	12.1
102.5°	130.9	133.2	134.3	135.5	87.3
105°	168.8	171.1	171.1	171.1	170.5
107.5°	207.8	207.8	209.0	209.5	207.2
110°	245.7	245.7	246.8	245.1	245.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.3	283.0	283.6	281.3	280.1
115°	316.9	319.8	320.3	318.0	314.6
117.5°	354.2	354.2	356.5	353.1	351.9
120°	388.6	388.1	389.8	388.6	385.8
122.5°	419.1	421.9	422.5	421.4	417.9
125°	450.6	454.7	454.7	452.4	450.6
127.5°	481.1	483.9	483.4	482.2	477.6
130°	508.6	511.5	512.1	510.3	507.5
132.5°	536.2	539.6	537.9	537.9	535.0
135°	562.0	565.5	564.3	563.2	559.7
137.5°	586.1	589.6	588.4	588.4	585.6
140°	609.7	610.8	610.2	611.4	607.9
142.5°	630.9	631.5	632.6	632.6	629.2
145°	651.6	652.7	652.7	653.3	649.8
147.5°	669.9	669.9	670.5	671.1	667.1
150°	687.2	686.0	687.2	688.3	683.7
152.5°	703.8	700.9	702.1	703.2	699.2
155°	717.6	714.1	715.3	717.0	712.4
157.5°	728.5	726.8	726.8	728.5	723.9
160°	740.0	736.5	737.1	739.4	734.8
162.5°	749.2	745.7	746.3	749.7	744.6
165°	757.2	753.8	754.3	757.8	753.2
167.5°	763.5	760.1	760.6	764.7	759.5
170°	768.7	764.7	765.2	769.8	764.7
172.5°	772.1	768.1	769.3	773.3	768.1
175°	774.4	771.0	771.5	776.1	771.0
177.5°	776.1	772.7	773.3	777.3	772.7
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)