

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: P1027092

Luminaire Tested: S125RDIP-B1090D610UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027092
REPORT IS A COMBINATION OF REPORTS P1005053 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_4000K
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

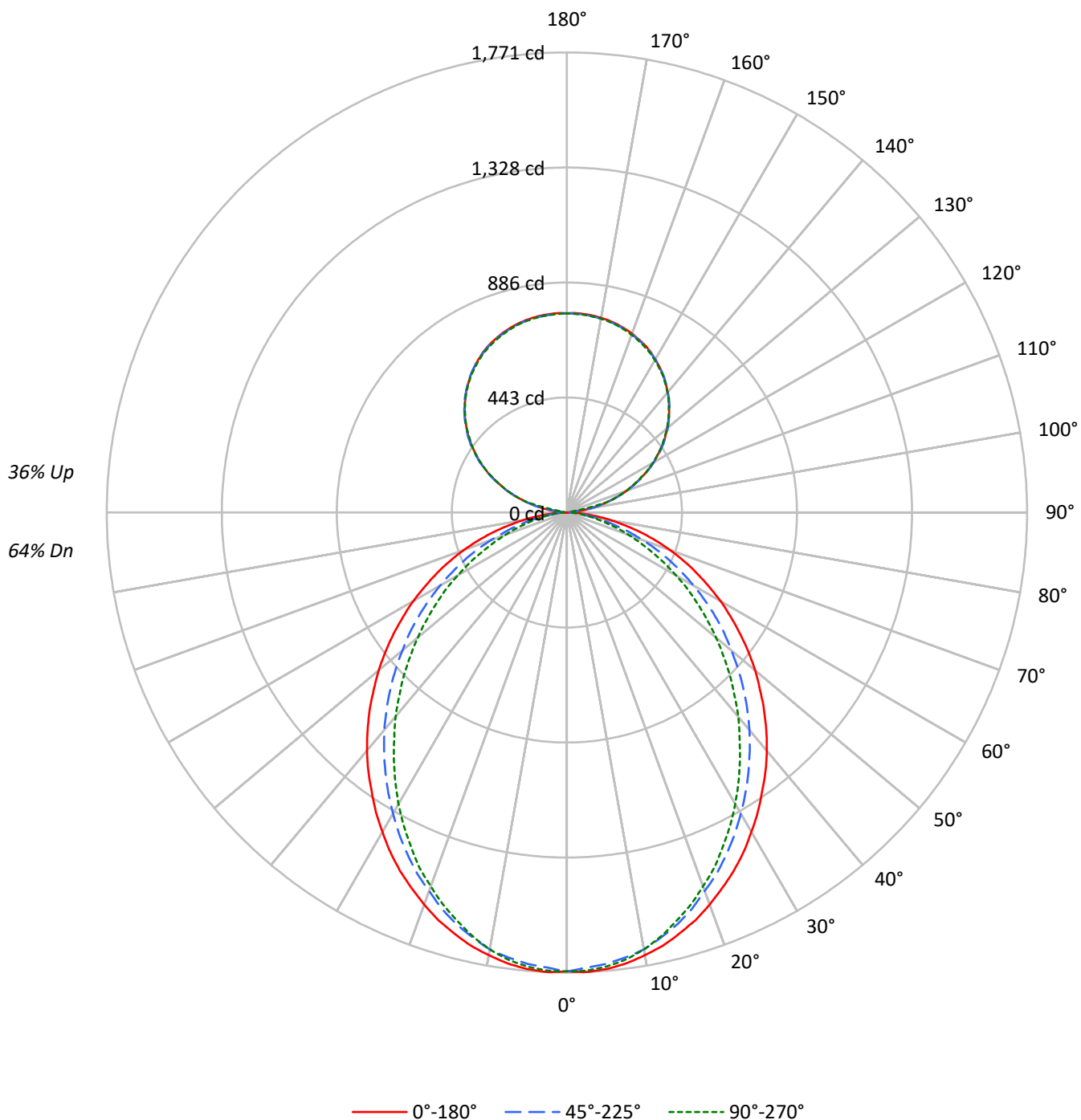
Lumens per Lamp: N/A
Luminaire Lumens: 6531.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	35	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	46	35	29	24	32	26	22	29	24	21	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11319	11319	11319
5°	11321	11037	11055
10°	11210	10759	10664
15°	11052	10369	10150
20°	10855	9901	9611
25°	10629	9444	9034
30°	10354	8941	8427
35°	10072	8431	7783
40°	9805	7906	7153
45°	9484	7339	6494
50°	9157	6739	5823
55°	8778	6147	5127
60°	8391	5470	4407
65°	7930	4714	3629
70°	7392	3838	2856
75°	6648	2886	2082
80°	5607	1869	1403
85°	4197	1004	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9484 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	2.5
10°-20°	464.7	7.1
20°-30°	673.8	10.3
30°-40°	767.6	11.8
40°-50°	748.2	11.5
50°-60°	629.6	9.6
60°-70°	441.2	6.8
70°-80°	226.2	3.5
80°-90°	57.6	0.9
90°-100°	26.0	0.4
100°-110°	173.1	2.7
110°-120°	311.7	4.8
120°-130°	400.1	6.1
130°-140°	430.3	6.6
140°-150°	403.9	6.2
150°-160°	326.7	5.0
160°-170°	211.3	3.2
170°-180°	72.9	1.1
0°-30°	1304.7	20.0
0°-40°	2072.3	31.7
0°-60°	3450.1	52.8
0°-90°	4175.1	63.9
90°-120°	510.8	7.8
90°-150°	1745.0	26.7
90°-180°	2356.0	36.1
0°-180°	6531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1764	1759	1744	1757	1755	167
15°	1677	1669	1641	1640	1628	473
25°	1521	1501	1452	1434	1420	700
35°	1310	1278	1218	1180	1161	821
45°	1073	1034	961	907	887	827
55°	814	771	696	636	615	728
65°	551	506	435	382	362	546
75°	294	254	198	168	159	310
85°	73	49	43	41	40	80
90°	1	5	9	12	14	6
95°	32	31	9	12	12	40
105°	167	169	169	169	169	177
115°	314	317	317	315	312	311
125°	446	450	450	448	446	399
135°	557	560	559	558	554	429
145°	645	646	646	647	644	404
155°	711	707	708	710	706	327
165°	750	746	747	750	746	212
175°	767	764	764	769	764	73
180°	767	767	767	767	767	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.7	1766.7	1766.7	1766.7	1766.7
2.5°	1770.7	1766.7	1753.3	1766.7	1765.3
5°	1764.0	1758.7	1744.0	1757.3	1754.7
7.5°	1750.7	1745.3	1728.0	1738.6	1736.0
10°	1730.6	1726.6	1708.0	1712.0	1708.0
12.5°	1708.0	1702.6	1675.9	1678.6	1671.9
15°	1677.3	1669.3	1641.2	1639.9	1627.9
17.5°	1645.2	1633.2	1599.9	1593.2	1583.9
20°	1606.5	1593.2	1550.5	1543.8	1531.8
22.5°	1563.8	1550.5	1505.1	1490.5	1481.1
25°	1521.1	1501.1	1451.8	1434.4	1419.7
27.5°	1473.1	1449.1	1397.1	1374.4	1359.7
30°	1419.7	1394.4	1338.3	1307.7	1295.6
32.5°	1367.7	1337.0	1279.6	1244.9	1228.9
35°	1310.3	1278.3	1218.3	1179.6	1160.9
37.5°	1255.6	1216.9	1155.5	1110.2	1091.5
40°	1196.9	1156.9	1092.8	1042.1	1026.1
42.5°	1135.5	1094.2	1027.4	979.4	954.1
45°	1072.8	1034.1	960.7	907.4	887.3
47.5°	1007.4	967.4	894.0	839.3	816.6
50°	946.0	902.0	826.0	769.9	749.9
52.5°	879.3	834.0	763.2	701.9	681.8
55°	813.9	771.2	696.5	636.5	615.1
57.5°	747.2	701.9	629.8	571.1	552.4
60°	683.2	636.5	564.4	505.7	485.7
62.5°	615.1	571.1	497.7	444.3	424.3
65°	551.1	505.7	435.0	381.6	361.6
67.5°	487.0	441.7	373.6	322.9	306.9
70°	421.7	376.3	309.6	268.2	252.2
72.5°	357.6	313.6	252.2	214.8	205.5
75°	293.6	253.5	197.5	168.1	158.8
77.5°	228.2	196.1	149.4	126.8	118.8
80°	173.5	141.4	104.1	92.1	89.4
82.5°	120.1	92.1	69.4	65.4	64.0
85°	73.4	49.4	42.7	41.4	40.0
87.5°	30.7	21.3	20.0	20.0	18.7
90°	0.6	5.1	9.1	11.9	13.6
92.5°	10.8	5.7	9.1	11.9	12.5
95°	32.4	30.7	9.1	11.9	11.9
97.5°	60.8	64.2	10.2	11.4	11.9
100°	94.9	96.6	98.9	14.2	11.9
102.5°	129.6	131.9	133.0	134.2	86.4
105°	167.1	169.4	169.4	169.4	168.9
107.5°	205.8	205.8	206.9	207.5	205.2
110°	243.3	243.3	244.5	242.8	243.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.6	280.3	280.8	278.6	277.4
115°	313.8	316.7	317.2	315.0	311.5
117.5°	350.8	350.8	353.1	349.6	348.5
120°	384.9	384.3	386.0	384.9	382.0
122.5°	415.0	417.9	418.4	417.3	413.9
125°	446.3	450.3	450.3	448.0	446.3
127.5°	476.4	479.3	478.7	477.6	473.0
130°	503.7	506.6	507.1	505.4	502.6
132.5°	531.0	534.4	532.7	532.7	529.9
135°	556.6	560.0	558.9	557.7	554.3
137.5°	580.5	583.9	582.7	582.7	579.9
140°	603.8	604.9	604.3	605.5	602.1
142.5°	624.8	625.4	626.5	626.5	623.1
145°	645.3	646.4	646.4	647.0	643.6
147.5°	663.5	663.5	664.0	664.6	660.6
150°	680.5	679.4	680.5	681.7	677.1
152.5°	697.0	694.2	695.3	696.4	692.5
155°	710.7	707.2	708.4	710.1	705.5
157.5°	721.5	719.7	719.7	721.5	716.9
160°	732.8	729.4	730.0	732.3	727.7
162.5°	741.9	738.5	739.1	742.5	737.4
165°	749.9	746.5	747.0	750.4	745.9
167.5°	756.1	752.7	753.3	757.3	752.2
170°	761.2	757.3	757.8	762.4	757.3
172.5°	764.7	760.7	761.8	765.8	760.7
175°	766.9	763.5	764.1	768.6	763.5
177.5°	768.6	765.2	765.8	769.8	765.2
180°	766.9	766.9	766.9	766.9	766.9

(END OF REPORT)