

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: P1028526

Luminaire Tested: S125RDIP-B1090D610UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028526
REPORT IS A COMBINATION OF REPORTS P1005071 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D610UB40-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

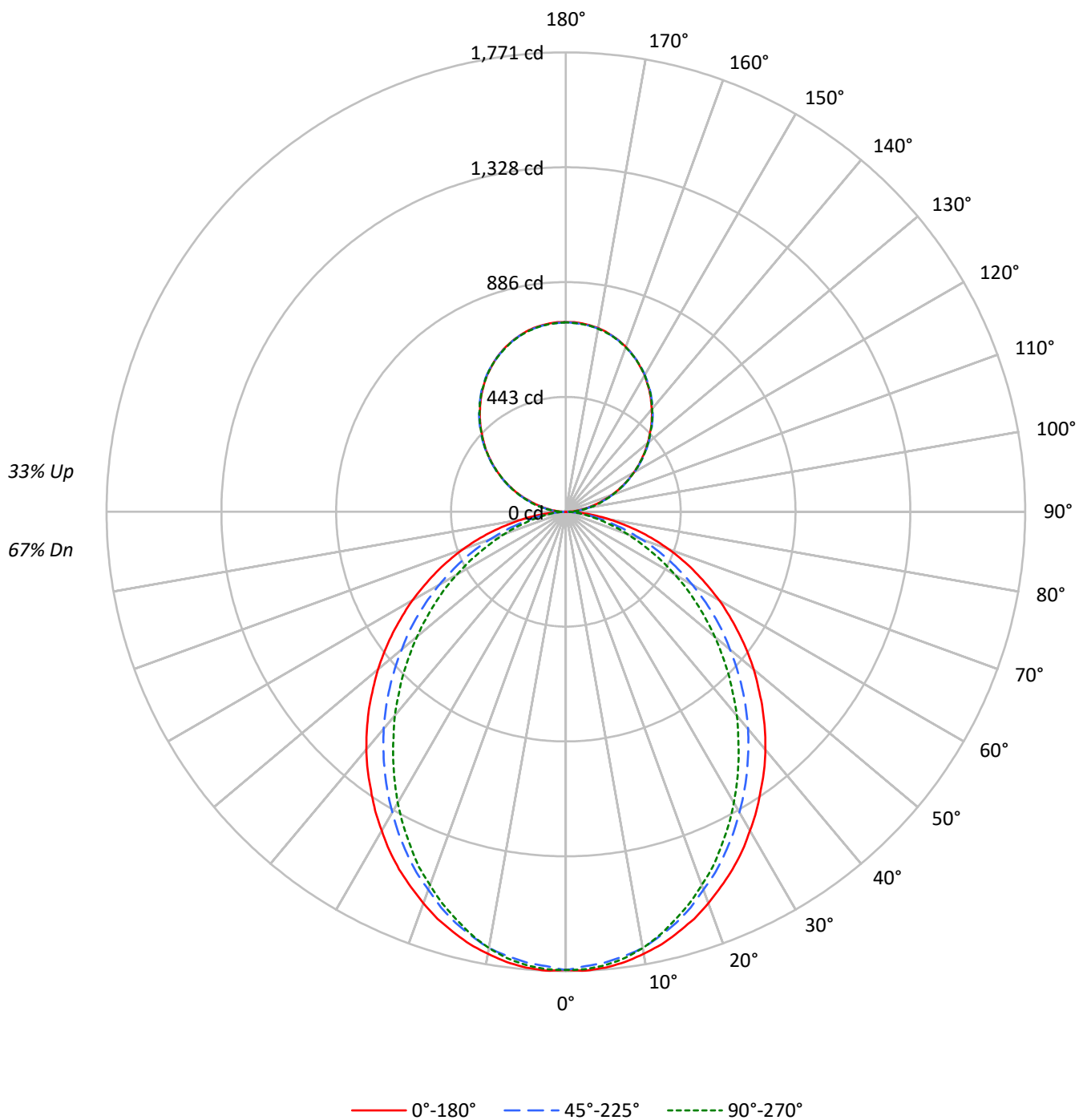
Lumens per Lamp: N/A
Luminaire Lumens: 6214.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61
2	93	86	79	74	88	81	76	71	72	68	64	64	61	58	57	54	52
3	85	76	68	62	80	72	65	60	64	59	54	57	53	49	51	47	45
4	78	67	59	53	73	64	56	51	57	51	47	51	46	43	45	42	39
5	72	60	52	46	67	57	50	44	51	45	41	46	41	37	41	37	34
6	66	54	46	40	62	51	44	38	46	40	36	42	37	33	37	33	30
7	61	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20

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	2.7
10°-20°	464.7	7.5
20°-30°	673.8	10.8
30°-40°	767.6	12.4
40°-50°	748.2	12.0
50°-60°	629.6	10.1
60°-70°	441.2	7.1
70°-80°	226.2	3.6
80°-90°	57.6	0.9
90°-100°	48.6	0.8
100°-110°	144.3	2.3
110°-120°	244.8	3.9
120°-130°	322.2	5.2
130°-140°	361.1	5.8
140°-150°	353.9	5.7
150°-160°	297.3	4.8
160°-170°	197.6	3.2
170°-180°	69.2	1.1
0°-30°	1304.7	21.0
0°-40°	2072.3	33.3
0°-60°	3450.1	55.5
0°-90°	4175.1	67.2
90°-120°	437.7	7.0
90°-150°	1474.8	23.7
90°-180°	2039.0	32.8
0°-180°	6214.0	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	7
95°	37	38	44	48	49	39
105°	130	132	136	139	141	138
115°	245	247	248	248	247	242
125°	358	361	362	360	360	320
135°	465	468	469	469	467	358
145°	563	566	567	567	566	352
155°	645	645	645	648	645	297
165°	701	700	700	703	699	198
175°	729	727	727	730	726	69
180°	730	730	730	730	730	

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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°	17.1	19.9	25.0	29.0	30.1
95°	37.0	38.1	43.8	47.8	48.9
97.5°	56.9	57.4	65.4	68.8	69.4
100°	79.6	79.6	87.0	92.1	93.2
102.5°	104.0	106.9	109.7	115.4	117.1
105°	129.6	132.5	135.9	139.3	141.0
107.5°	157.5	160.3	163.2	164.9	164.9
110°	186.5	189.3	191.0	192.7	192.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.0	217.2	219.4	220.0	218.9
115°	245.0	247.3	248.4	247.9	247.3
117.5°	274.6	275.2	276.3	276.9	274.6
120°	301.9	304.7	305.3	305.3	303.0
122.5°	331.4	332.0	333.7	333.1	331.4
125°	357.6	361.0	361.6	360.4	359.9
127.5°	386.6	388.3	388.9	388.3	387.2
130°	412.2	415.0	416.1	415.6	414.4
132.5°	437.8	442.9	442.3	441.7	440.0
135°	465.0	468.5	469.0	469.0	466.7
137.5°	490.6	494.0	495.2	495.7	492.9
140°	515.1	517.9	519.6	520.8	517.9
142.5°	539.5	541.8	544.1	544.6	541.8
145°	563.4	565.7	567.4	567.4	565.7
147.5°	585.6	587.3	588.4	590.1	585.6
150°	607.7	607.2	609.4	609.4	608.3
152.5°	625.9	627.1	627.6	629.3	627.1
155°	644.7	644.7	645.3	647.5	644.7
157.5°	661.7	660.6	661.2	663.5	659.5
160°	676.5	674.8	675.4	677.7	674.8
162.5°	689.6	688.5	688.5	691.3	687.9
165°	701.0	699.8	700.4	702.7	699.3
167.5°	711.2	708.9	708.9	712.3	708.9
170°	719.2	716.9	716.9	720.3	716.3
172.5°	724.8	722.6	722.6	726.0	722.6
175°	728.8	726.6	726.6	730.0	726.0
177.5°	731.7	729.4	728.8	732.2	728.3
180°	730.5	730.5	730.5	730.5	730.5

(END OF REPORT)