

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: P1027153

Luminaire Tested: S125RDIP-B1270D850UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027153
REPORT IS A COMBINATION OF REPORTS P1005294 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D850UB2750-4F0-XX-W2A-F_5000K
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

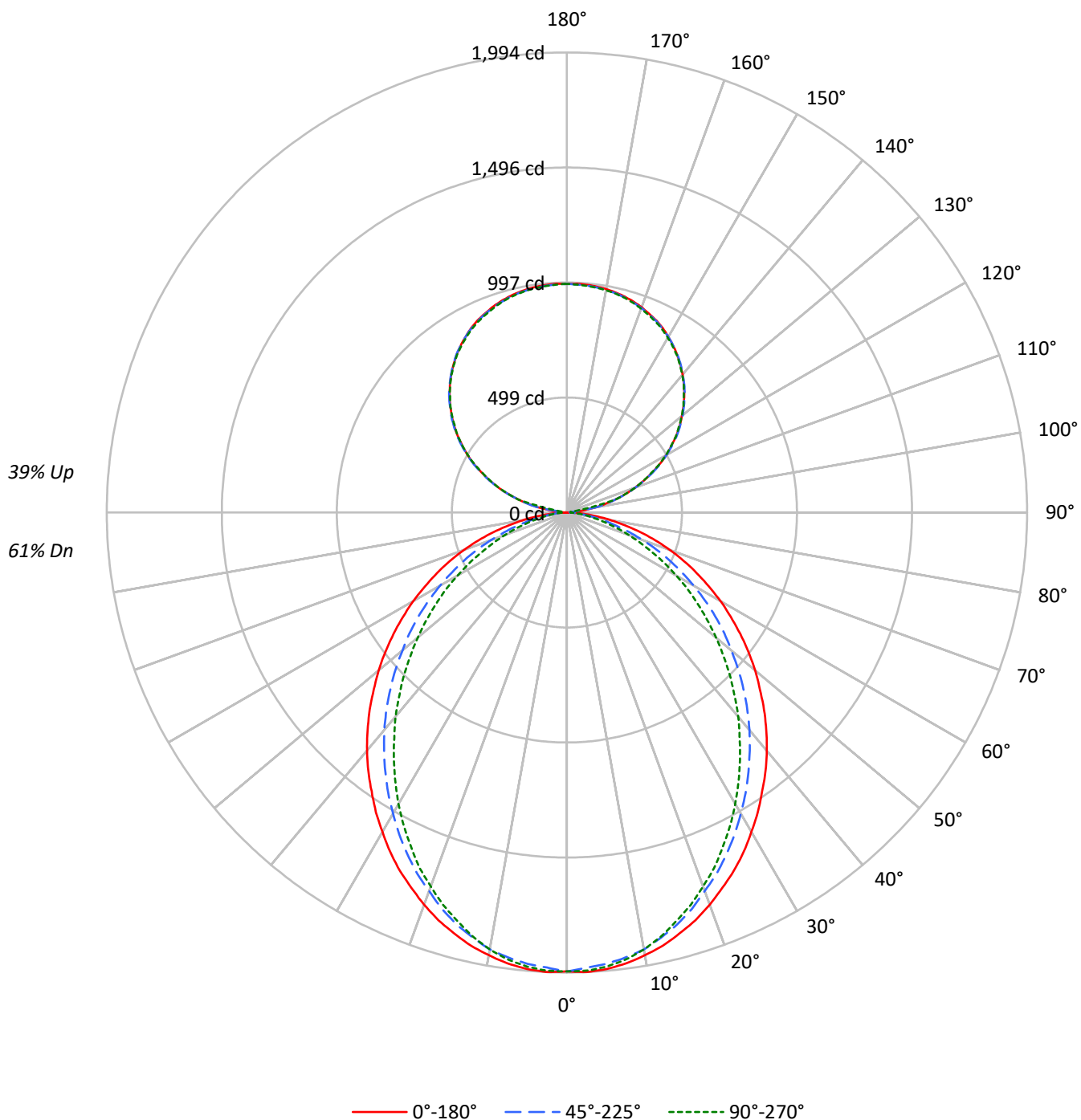
Lumens per Lamp: N/A
Luminaire Lumens: 7745.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 82.4
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	103	103	103	103	89	89	89	77	77	77	66	66	66
1	100	96	92	89	94	90	87	84	79	76	74	68	67	65	59	57	56
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	35
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	27
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	27	25
8	56	44	36	31	52	41	34	29	37	31	27	33	28	24	29	25	22
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12746	12746	12746
5°	12747	12428	12448
10°	12622	12115	12008
15°	12444	11677	11429
20°	12223	11149	10823
25°	11969	10634	10172
30°	11659	10068	9489
35°	11341	9493	8763
40°	11040	8902	8054
45°	10679	8265	7313
50°	10311	7588	6556
55°	9885	6922	5773
60°	9449	6160	4962
65°	8928	5308	4087
70°	8323	4322	3216
75°	7483	3249	2344
80°	6311	2104	1581
85°	4723	1131	891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10679 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.4
10°-20°	523.2	6.8
20°-30°	758.7	9.8
30°-40°	864.3	11.2
40°-50°	842.5	10.9
50°-60°	709.0	9.2
60°-70°	496.8	6.4
70°-80°	254.7	3.3
80°-90°	65.0	0.8
90°-100°	33.6	0.4
100°-110°	223.6	2.9
110°-120°	402.7	5.2
120°-130°	516.9	6.7
130°-140°	555.9	7.2
140°-150°	521.7	6.7
150°-160°	422.0	5.4
160°-170°	272.9	3.5
170°-180°	94.1	1.2
0°-30°	1469.1	19.0
0°-40°	2333.5	30.1
0°-60°	3884.9	50.2
0°-90°	4701.5	60.7
90°-120°	659.9	8.5
90°-150°	2254.4	29.1
90°-180°	3044.0	39.3
0°-180°	7745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1986	1980	1964	1979	1976	188
15°	1889	1880	1848	1847	1833	533
25°	1713	1690	1635	1615	1599	788
35°	1475	1439	1372	1328	1307	924
45°	1208	1164	1082	1022	999	932
55°	916	868	784	717	693	820
65°	620	569	490	430	407	614
75°	330	286	222	189	179	349
85°	83	56	48	47	45	90
90°	1	7	12	15	18	7
95°	42	40	12	15	15	51
105°	216	219	219	219	218	229
115°	405	409	410	407	402	402
125°	577	582	582	579	577	515
135°	719	724	722	720	716	554
145°	834	835	835	836	831	521
155°	918	914	915	917	912	423
165°	969	964	965	970	964	274
175°	991	986	987	993	986	94
180°	991	991	991	991	991	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1989.3	1989.3	1989.3	1989.3	1989.3
2.5°	1993.8	1989.3	1974.3	1989.3	1987.8
5°	1986.3	1980.3	1963.8	1978.8	1975.8
7.5°	1971.3	1965.3	1945.7	1957.7	1954.7
10°	1948.7	1944.2	1923.2	1927.7	1923.2
12.5°	1923.2	1917.2	1887.1	1890.1	1882.6
15°	1888.6	1879.6	1848.1	1846.6	1833.0
17.5°	1852.6	1839.0	1801.5	1794.0	1783.5
20°	1809.0	1794.0	1745.9	1738.4	1724.9
22.5°	1760.9	1745.9	1694.8	1678.3	1667.8
25°	1712.8	1690.3	1634.7	1615.2	1598.6
27.5°	1658.7	1631.7	1573.1	1547.6	1531.0
30°	1598.6	1570.1	1507.0	1472.4	1458.9
32.5°	1540.1	1505.5	1440.9	1401.8	1383.8
35°	1475.4	1439.4	1371.8	1328.2	1307.2
37.5°	1413.8	1370.3	1301.2	1250.1	1229.0
40°	1347.7	1302.7	1230.5	1173.4	1155.4
42.5°	1278.6	1232.0	1156.9	1102.8	1074.3
45°	1208.0	1164.4	1081.8	1021.7	999.2
47.5°	1134.4	1089.3	1006.7	945.1	919.5
50°	1065.3	1015.7	930.0	866.9	844.4
52.5°	990.1	939.1	859.4	790.3	767.8
55°	916.5	868.4	784.3	716.7	692.6
57.5°	841.4	790.3	709.2	643.1	622.0
60°	769.3	716.7	635.6	569.4	546.9
62.5°	692.6	643.1	560.4	500.3	477.8
65°	620.5	569.4	489.8	429.7	407.2
67.5°	548.4	497.3	420.7	363.6	345.6
70°	474.8	423.7	348.6	302.0	284.0
72.5°	402.7	353.1	284.0	241.9	231.4
75°	330.5	285.5	222.4	189.3	178.8
77.5°	256.9	220.9	168.3	142.7	133.7
80°	195.3	159.3	117.2	103.7	100.7
82.5°	135.2	103.7	78.1	73.6	72.1
85°	82.6	55.6	48.1	46.6	45.1
87.5°	34.6	24.0	22.5	22.5	21.0
90°	0.7	6.6	11.8	15.4	17.6
92.5°	14.0	7.3	11.8	15.4	16.2
95°	41.9	39.7	11.8	15.4	15.4
97.5°	78.6	83.0	13.2	14.7	15.4
100°	122.7	124.9	127.8	18.4	15.4
102.5°	167.5	170.4	171.9	173.3	111.6
105°	215.9	218.9	218.9	218.9	218.1
107.5°	265.9	265.9	267.3	268.1	265.1
110°	314.4	314.4	315.8	313.6	314.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.9	362.1	362.8	359.9	358.4
115°	405.4	409.1	409.8	406.9	402.5
117.5°	453.2	453.2	456.1	451.7	450.2
120°	497.2	496.5	498.7	497.2	493.6
122.5°	536.2	539.8	540.6	539.1	534.7
125°	576.6	581.7	581.7	578.8	576.6
127.5°	615.5	619.2	618.4	617.0	611.1
130°	650.7	654.4	655.1	652.9	649.3
132.5°	686.0	690.4	688.2	688.2	684.5
135°	719.0	723.5	722.0	720.5	716.1
137.5°	749.9	754.3	752.8	752.8	749.2
140°	780.0	781.5	780.7	782.2	777.8
142.5°	807.2	807.9	809.4	809.4	805.0
145°	833.6	835.1	835.1	835.8	831.4
147.5°	857.1	857.1	857.9	858.6	853.5
150°	879.2	877.7	879.2	880.6	874.8
152.5°	900.5	896.8	898.3	899.7	894.6
155°	918.1	913.7	915.2	917.4	911.5
157.5°	932.0	929.8	929.8	932.0	926.2
160°	946.7	942.3	943.1	946.0	940.1
162.5°	958.5	954.1	954.8	959.2	952.6
165°	968.8	964.4	965.1	969.5	963.6
167.5°	976.8	972.4	973.2	978.3	971.7
170°	983.5	978.3	979.0	984.9	978.3
172.5°	987.9	982.7	984.2	989.3	982.7
175°	990.8	986.4	987.1	993.0	986.4
177.5°	993.0	988.6	989.3	994.5	988.6
180°	990.8	990.8	990.8	990.8	990.8

(END OF REPORT)