

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: P1028620

Luminaire Tested: S125RDIP-B1270D1270UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028620
REPORT IS A COMBINATION OF REPORTS P1005197 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D1270UB50-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

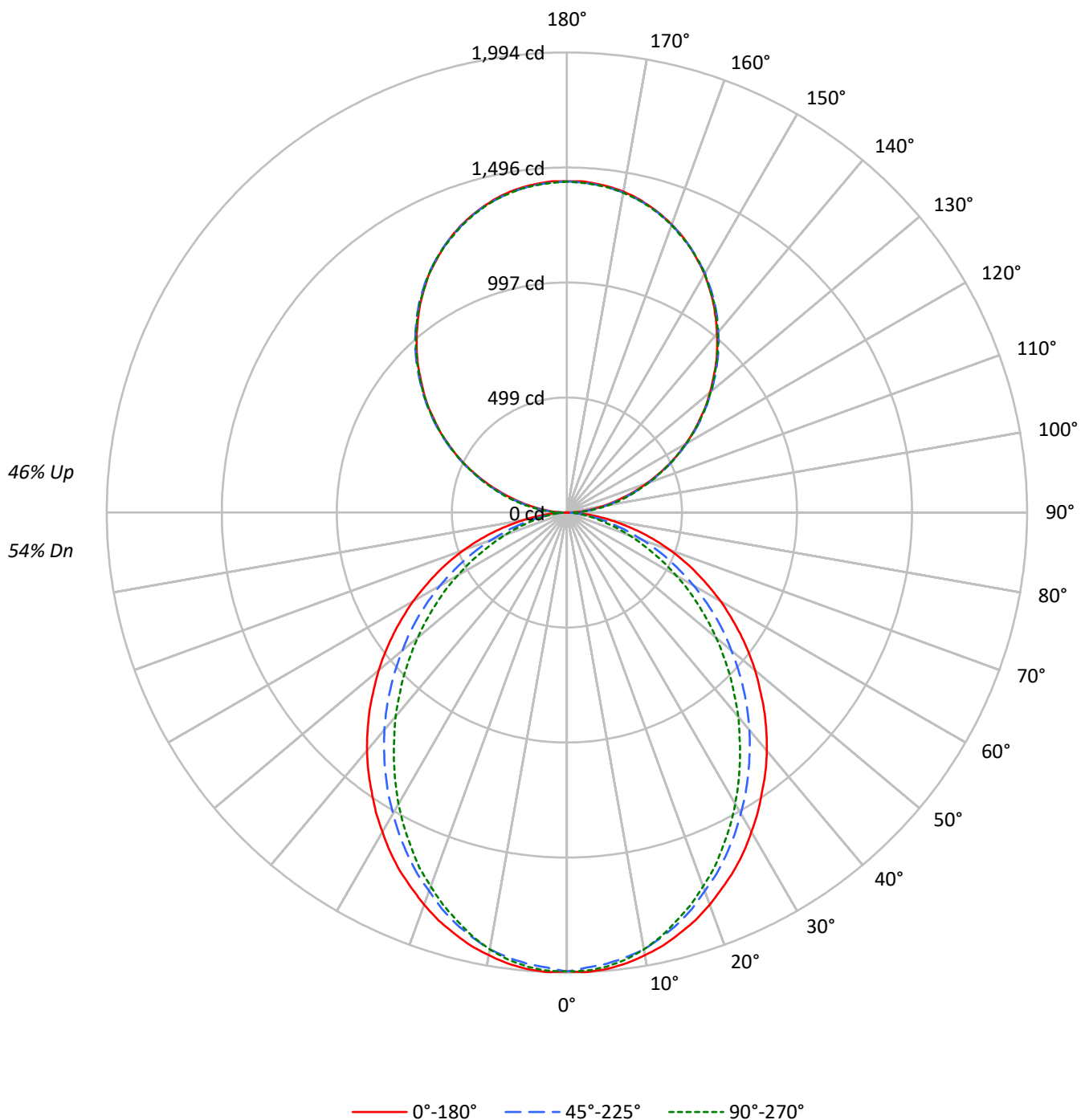
Lumens per Lamp: N/A
Luminaire Lumens: 8707.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	95	91	87	92	88	85	82	75	73	71	64	62	61	53	52	51
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43
3	82	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	31	28
6	64	52	44	38	59	49	41	36	42	37	32	36	32	29	31	28	25
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22
8	55	43	35	30	51	40	33	28	35	30	25	30	26	23	26	23	20
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	21	18
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16

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	2.2
10°-20°	523.2	6.0
20°-30°	758.7	8.7
30°-40°	864.3	9.9
40°-50°	842.5	9.7
50°-60°	709.0	8.1
60°-70°	496.8	5.7
70°-80°	254.7	2.9
80°-90°	65.8	0.8
90°-100°	95.4	1.1
100°-110°	283.5	3.3
110°-120°	480.8	5.5
120°-130°	632.9	7.3
130°-140°	709.2	8.1
140°-150°	695.1	8.0
150°-160°	583.9	6.7
160°-170°	388.1	4.5
170°-180°	135.8	1.6
0°-30°	1469.1	16.9
0°-40°	2333.5	26.8
0°-60°	3884.9	44.6
0°-90°	4702.2	54.0
90°-120°	859.7	9.9
90°-150°	2896.9	33.3
90°-180°	4005.0	46.0
0°-180°	8707.0	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	10	18	24	27	10
95°	73	75	86	94	96	76
105°	255	260	267	274	277	271
115°	481	486	488	487	486	476
125°	702	709	710	708	707	629
135°	913	920	921	921	917	704
145°	1107	1111	1114	1114	1111	692
155°	1266	1266	1267	1272	1266	583
165°	1377	1375	1376	1380	1374	388
175°	1432	1427	1427	1434	1426	136
180°	1435	1435	1435	1435	1435	

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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°	1.1	10.1	17.9	23.5	26.8
92.5°	33.5	39.1	49.1	57.0	59.2
95°	72.6	74.8	86.0	93.8	96.0
97.5°	111.7	112.8	128.4	135.1	136.2
100°	156.3	156.3	170.9	180.9	183.1
102.5°	204.4	209.9	215.5	226.7	230.0
105°	254.6	260.2	266.9	273.6	276.9
107.5°	309.3	314.9	320.5	323.8	323.8
110°	366.3	371.9	375.2	378.6	377.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	424.3	426.6	431.0	432.2	429.9
115°	481.3	485.8	488.0	486.9	485.8
117.5°	539.4	540.5	542.7	543.8	539.4
120°	593.0	598.5	599.7	599.7	595.2
122.5°	651.0	652.1	655.5	654.4	651.0
125°	702.4	709.1	710.2	708.0	706.9
127.5°	759.3	762.7	763.8	762.7	760.5
130°	809.6	815.2	817.4	816.3	814.1
132.5°	859.8	869.9	868.8	867.7	864.3
135°	913.4	920.1	921.3	921.3	916.8
137.5°	963.7	970.4	972.6	973.7	968.2
140°	1011.7	1017.3	1020.6	1022.9	1017.3
142.5°	1059.7	1064.2	1068.7	1069.8	1064.2
145°	1106.6	1111.1	1114.4	1114.4	1111.1
147.5°	1150.2	1153.5	1155.8	1159.1	1150.2
150°	1193.7	1192.6	1197.1	1197.1	1194.8
152.5°	1229.5	1231.7	1232.8	1236.2	1231.7
155°	1266.3	1266.3	1267.4	1271.9	1266.3
157.5°	1299.8	1297.6	1298.7	1303.2	1295.3
160°	1328.8	1325.5	1326.6	1331.1	1325.5
162.5°	1354.5	1352.3	1352.3	1357.9	1351.2
165°	1376.9	1374.6	1375.7	1380.2	1373.5
167.5°	1397.0	1392.5	1392.5	1399.2	1392.5
170°	1412.6	1408.1	1408.1	1414.8	1407.0
172.5°	1423.8	1419.3	1419.3	1426.0	1419.3
175°	1431.6	1427.1	1427.1	1433.8	1426.0
177.5°	1437.2	1432.7	1431.6	1438.3	1430.5
180°	1434.9	1434.9	1434.9	1434.9	1434.9

(END OF REPORT)