

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: P1027273

Luminaire Tested: S125RDIP-B850D1270UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027273
REPORT IS A COMBINATION OF REPORTS P1005774 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B850D1270UB2750-4F0-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

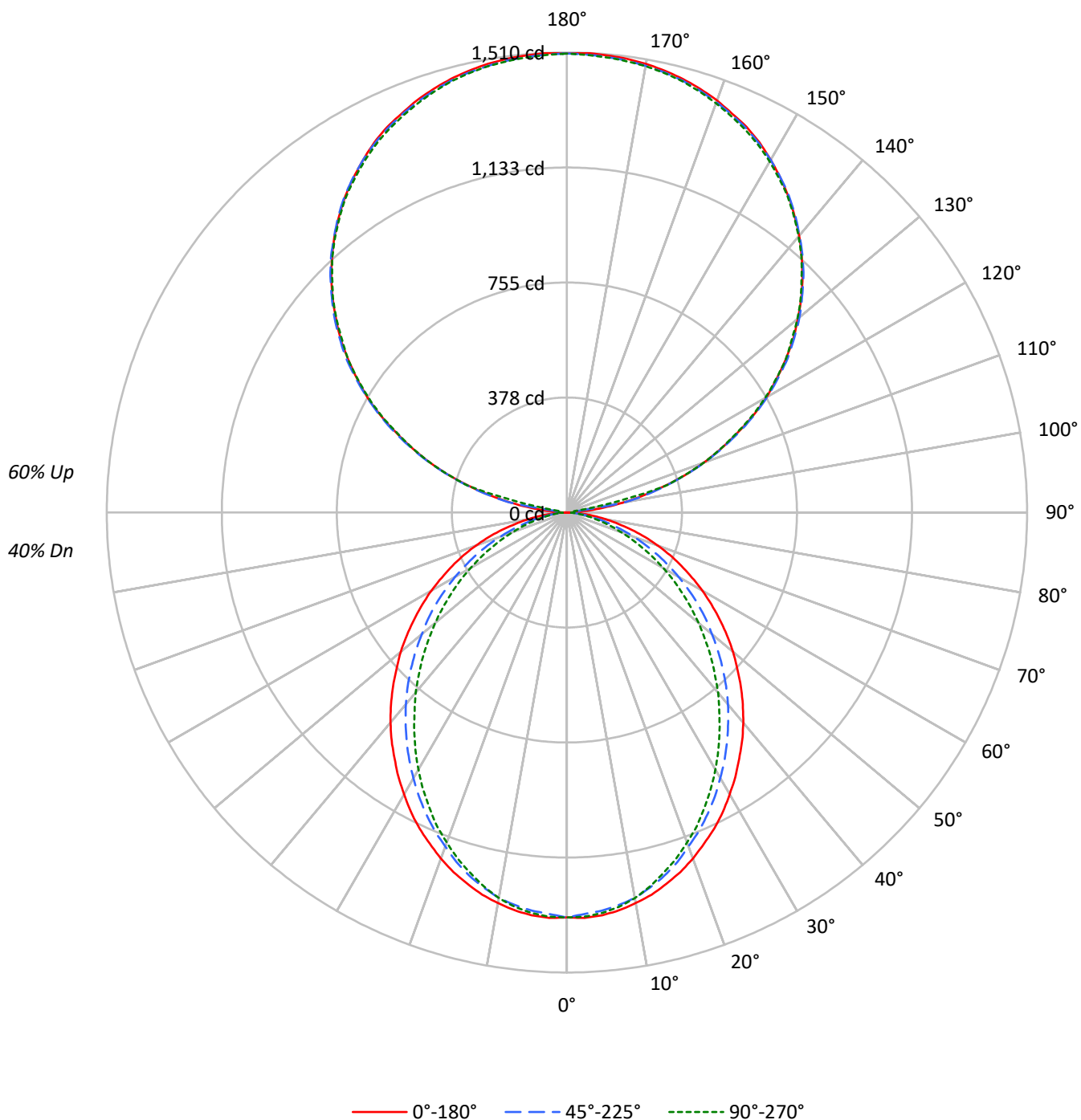
Lumens per Lamp: N/A
Luminaire Lumens: 7770.1 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47			40
1	96	92	88	84	87	84	80	78	69	66	64	55	53	52	42	41	40			34
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34			29
3	80	71	63	58	72	65	58	54	53	49	45	43	40	37	33	31	29			25
4	73	63	55	49	66	57	51	45	47	42	39	38	35	32	30	27	25			21
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22			19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	20			17
7	57	45	37	32	52	41	35	30	35	29	26	28	24	21	22	20	17			15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16			13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14			12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13			11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8515	8515	8515
5°	8516	8303	8316
10°	8433	8094	8023
15°	8314	7801	7636
20°	8166	7448	7231
25°	7996	7104	6796
30°	7789	6726	6340
35°	7577	6342	5855
40°	7376	5948	5381
45°	7134	5521	4885
50°	6889	5069	4380
55°	6604	4625	3857
60°	6312	4115	3315
65°	5966	3546	2730
70°	5560	2887	2148
75°	4999	2171	1566
80°	4217	1406	1057
85°	3156	755	595

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	1.6
10°-20°	349.6	4.5
20°-30°	506.9	6.5
30°-40°	577.5	7.4
40°-50°	562.8	7.2
50°-60°	473.7	6.1
60°-70°	331.9	4.3
70°-80°	170.2	2.2
80°-90°	44.7	0.6
90°-100°	51.2	0.7
100°-110°	340.0	4.4
110°-120°	612.3	7.9
120°-130°	785.9	10.1
130°-140°	845.3	10.9
140°-150°	793.3	10.2
150°-160°	641.7	8.3
160°-170°	415.0	5.3
170°-180°	143.1	1.8
0°-30°	981.5	12.6
0°-40°	1559.0	20.1
0°-60°	2595.5	33.4
0°-90°	3142.3	40.4
90°-120°	1003.5	12.9
90°-150°	3428.0	44.1
90°-180°	4628.0	59.6
0°-180°	7770.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1327	1323	1312	1322	1320	126
15°	1262	1256	1235	1234	1225	356
25°	1144	1129	1092	1079	1068	527
35°	986	962	916	887	873	617
45°	807	778	723	683	668	622
55°	612	580	524	479	463	548
65°	415	380	327	287	272	411
75°	221	191	149	126	120	233
85°	55	37	32	31	30	60
90°	1	10	18	24	27	6
95°	64	60	18	24	24	78
105°	328	333	333	333	332	348
115°	616	622	623	619	612	611
125°	877	884	884	880	877	783
135°	1093	1100	1098	1096	1089	843
145°	1268	1270	1270	1271	1264	793
155°	1396	1389	1392	1395	1386	643
165°	1473	1466	1468	1474	1465	416
175°	1506	1500	1501	1510	1500	143
180°	1506	1506	1506	1506	1506	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.0	1329.0	1329.0	1329.0	1329.0
2.5°	1332.0	1329.0	1319.0	1329.0	1328.0
5°	1327.0	1323.0	1312.0	1322.0	1320.0
7.5°	1317.0	1313.0	1299.9	1307.9	1305.9
10°	1301.9	1298.9	1284.9	1287.9	1284.9
12.5°	1284.9	1280.8	1260.8	1262.8	1257.8
15°	1261.8	1255.7	1234.7	1233.7	1224.6
17.5°	1237.7	1228.6	1203.5	1198.5	1191.5
20°	1208.6	1198.5	1166.4	1161.4	1152.4
22.5°	1176.4	1166.4	1132.3	1121.2	1114.2
25°	1144.3	1129.3	1092.1	1079.1	1068.0
27.5°	1108.2	1090.1	1051.0	1033.9	1022.9
30°	1068.0	1049.0	1006.8	983.7	974.7
32.5°	1028.9	1005.8	962.6	936.5	924.5
35°	985.7	961.6	916.5	887.4	873.3
37.5°	944.6	915.5	869.3	835.2	821.1
40°	900.4	870.3	822.1	784.0	771.9
42.5°	854.2	823.1	772.9	736.8	717.7
45°	807.0	777.9	722.7	682.6	667.5
47.5°	757.9	727.7	672.5	631.4	614.3
50°	711.7	678.6	621.3	579.2	564.1
52.5°	661.5	627.4	574.2	528.0	512.9
55°	612.3	580.2	524.0	478.8	462.7
57.5°	562.1	528.0	473.8	429.6	415.6
60°	513.9	478.8	424.6	380.4	365.4
62.5°	462.7	429.6	374.4	334.3	319.2
65°	414.6	380.4	327.2	287.1	272.0
67.5°	366.4	332.3	281.1	242.9	230.9
70°	317.2	283.1	232.9	201.8	189.7
72.5°	269.0	235.9	189.7	161.6	154.6
75°	220.8	190.7	148.6	126.5	119.5
77.5°	171.6	147.6	112.4	95.4	89.3
80°	130.5	106.4	78.3	69.3	67.3
82.5°	90.3	69.3	52.2	49.2	48.2
85°	55.2	37.1	32.1	31.1	30.1
87.5°	23.1	16.1	15.1	15.1	14.1
90°	1.1	10.1	17.9	23.5	26.8
92.5°	21.2	11.2	17.9	23.5	24.6
95°	63.7	60.3	17.9	23.5	23.5
97.5°	119.5	126.2	20.1	22.3	23.5
100°	186.5	189.9	194.3	27.9	23.5
102.5°	254.6	259.1	261.3	263.6	169.8
105°	328.3	332.8	332.8	332.8	331.7
107.5°	404.3	404.3	406.5	407.6	403.2
110°	478.0	478.0	480.2	476.9	478.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	547.2	550.6	551.7	547.2	545.0
115°	616.5	622.0	623.2	618.7	612.0
117.5°	689.1	689.1	693.5	686.8	684.6
120°	756.1	754.9	758.3	756.1	750.5
122.5°	815.3	820.8	822.0	819.7	813.0
125°	876.7	884.5	884.5	880.0	876.7
127.5°	935.9	941.4	940.3	938.1	929.2
130°	989.5	995.1	996.2	992.8	987.2
132.5°	1043.1	1049.8	1046.4	1046.4	1040.8
135°	1093.3	1100.0	1097.8	1095.6	1088.9
137.5°	1140.2	1146.9	1144.7	1144.7	1139.1
140°	1186.0	1188.3	1187.1	1189.4	1182.7
142.5°	1227.3	1228.5	1230.7	1230.7	1224.0
145°	1267.5	1269.8	1269.8	1270.9	1264.2
147.5°	1303.3	1303.3	1304.4	1305.5	1297.7
150°	1336.8	1334.6	1336.8	1339.0	1330.1
152.5°	1369.2	1363.6	1365.8	1368.1	1360.2
155°	1396.0	1389.3	1391.5	1394.9	1385.9
157.5°	1417.2	1413.8	1413.8	1417.2	1408.3
160°	1439.5	1432.8	1433.9	1438.4	1429.5
162.5°	1457.4	1450.7	1451.8	1458.5	1448.5
165°	1473.0	1466.3	1467.5	1474.2	1465.2
167.5°	1485.3	1478.6	1479.7	1487.6	1477.5
170°	1495.4	1487.6	1488.7	1497.6	1487.6
172.5°	1502.1	1494.3	1496.5	1504.3	1494.3
175°	1506.5	1499.8	1501.0	1509.9	1499.8
177.5°	1509.9	1503.2	1504.3	1512.1	1503.2
180°	1506.5	1506.5	1506.5	1506.5	1506.5

(END OF REPORT)