

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: P1027303

Luminaire Tested: S125RDIP-B850D850UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027303
REPORT IS A COMBINATION OF REPORTS P1005894 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B850D850UB2750-4F0-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

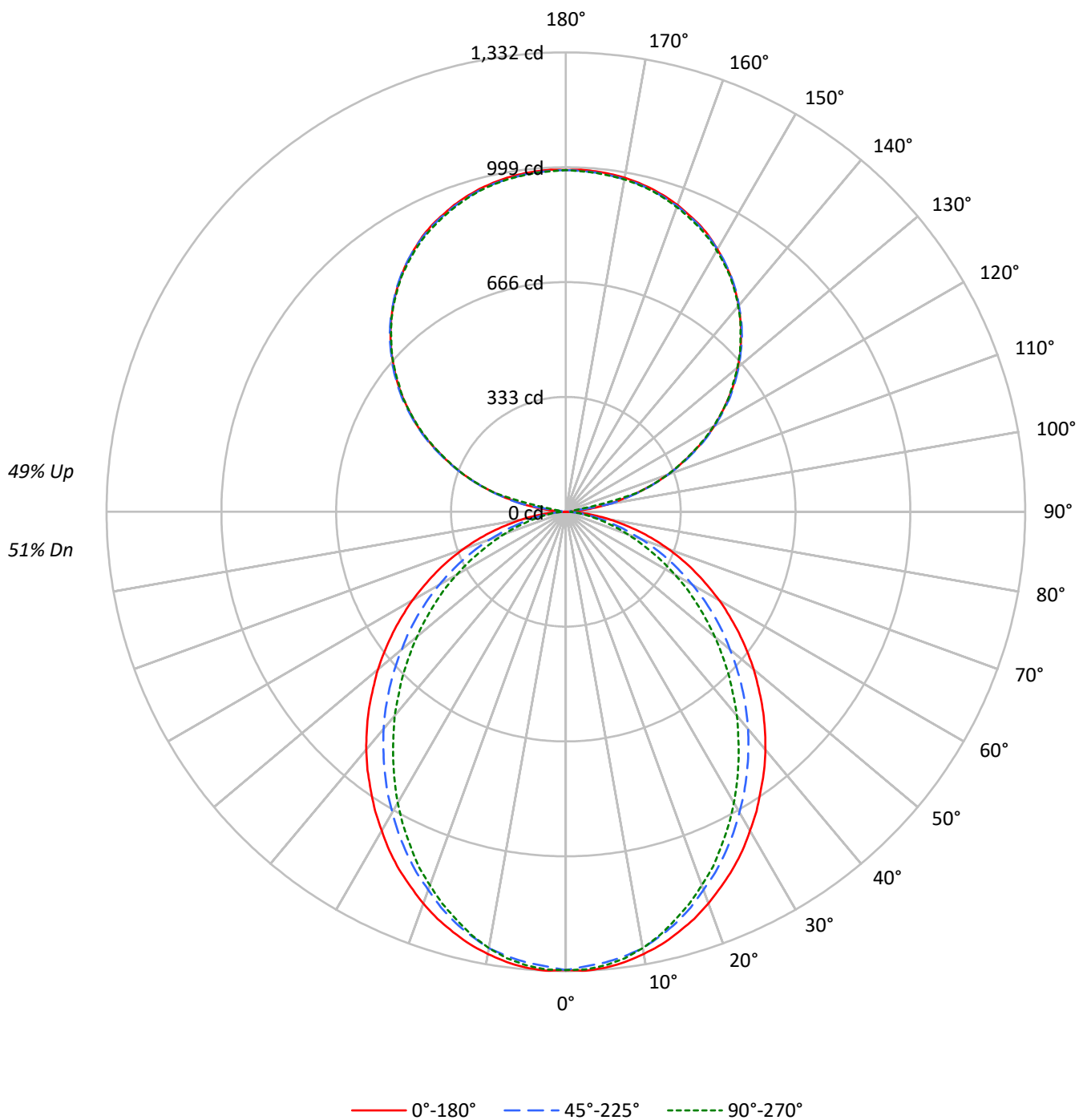
Lumens per Lamp: N/A
Luminaire Lumens: 6185.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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	107	107	107	107	99	99	99	99		84	84	84		70	70	70		57	57	57
1	98	94	90	87	91	87	84	81		74	71	69		62	60	59		51	50	48
2	90	82	76	71	83	76	71	67		65	61	58		54	52	49		45	43	41
3	82	73	65	60	75	67	61	56		57	53	49		48	45	42		40	37	35
4	75	64	56	51	69	60	53	48		51	46	42		43	39	36		36	33	31
5	69	57	49	43	63	53	46	41		46	40	36		39	35	31		32	29	27
6	64	52	43	38	59	48	41	36		41	36	32		35	31	28		29	26	24
7	59	47	39	33	54	43	36	31		38	32	28		32	28	24		27	24	21
8	55	42	35	29	50	40	33	28		34	29	25		29	25	22		25	21	19
9	51	39	31	26	47	36	29	25		31	26	22		27	23	20		23	20	17
10	48	36	28	24	44	33	27	22		29	24	20		25	21	18		21	18	16

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	2.0
10°-20°	349.6	5.7
20°-30°	506.9	8.2
30°-40°	577.5	9.3
40°-50°	562.8	9.1
50°-60°	473.7	7.7
60°-70°	331.9	5.4
70°-80°	170.2	2.8
80°-90°	43.9	0.7
90°-100°	33.6	0.5
100°-110°	223.6	3.6
110°-120°	402.7	6.5
120°-130°	516.9	8.4
130°-140°	555.9	9.0
140°-150°	521.7	8.4
150°-160°	422.0	6.8
160°-170°	272.9	4.4
170°-180°	94.1	1.5
0°-30°	981.5	15.9
0°-40°	1559.0	25.2
0°-60°	2595.5	42.0
0°-90°	3141.5	50.8
90°-120°	659.9	10.7
90°-150°	2254.4	36.5
90°-180°	3044.0	49.2
0°-180°	6185.0	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	7	12	15	18	5
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°	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°	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)