

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: P1027293

Luminaire Tested: S125RDIP-B850D610UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027293
REPORT IS A COMBINATION OF REPORTS P1005854 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B850D610UB2750-4F0-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

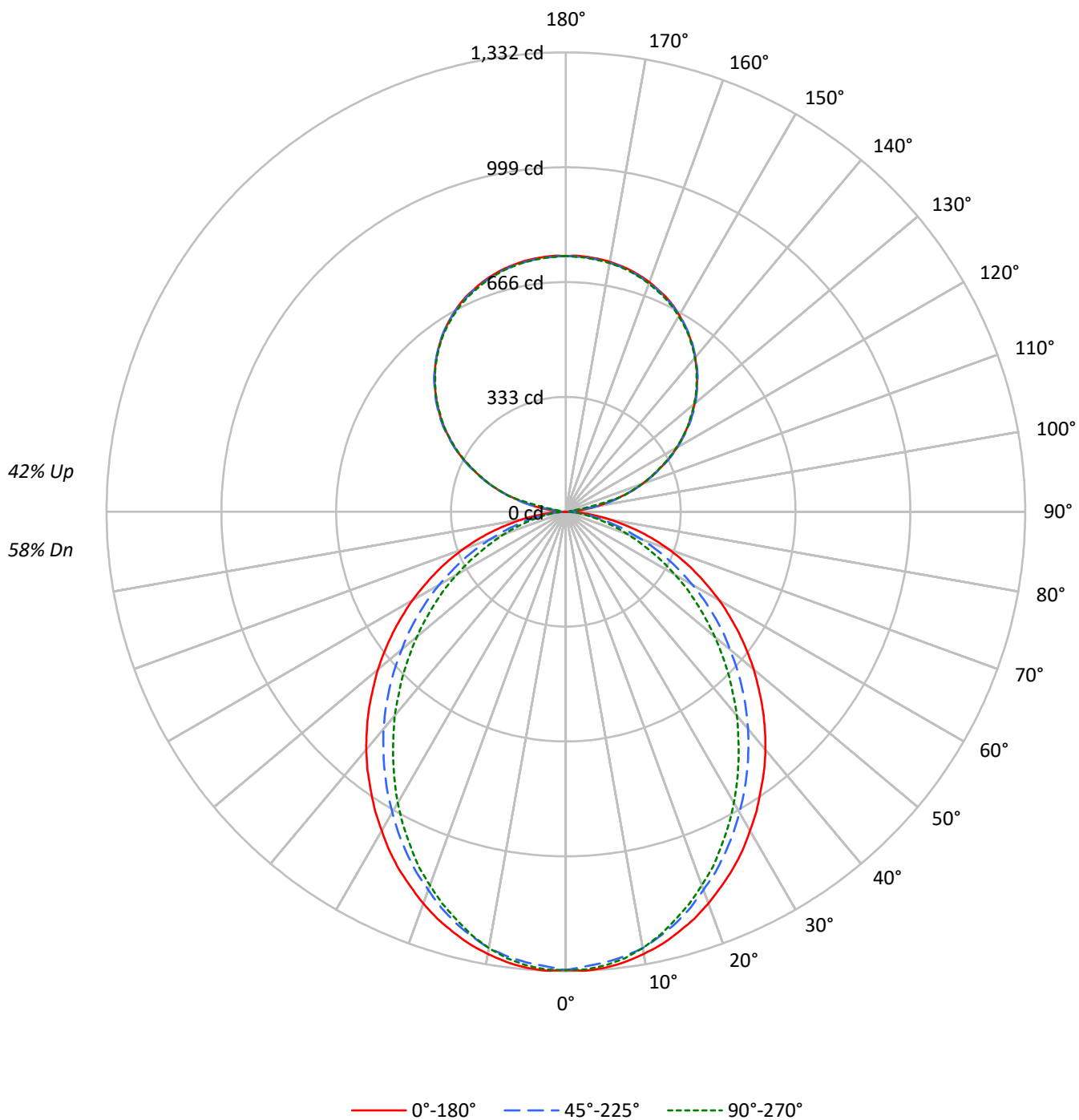
Lumens per Lamp: N/A
Luminaire Lumens: 5419.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	96	92	88	93	89	86	83	77	75	73	67	65	63	57	55	54
2	91	84	78	73	85	78	73	68	68	64	61	59	56	53	50	48	46
3	83	74	67	61	77	69	63	57	60	55	51	52	48	45	45	42	39
4	76	66	58	52	71	61	54	49	54	48	44	47	42	39	40	37	34
5	70	59	50	44	65	55	48	42	48	42	38	42	37	34	36	33	30
6	65	53	45	39	60	49	42	37	44	38	33	38	33	30	33	29	26
7	60	48	40	34	56	45	38	33	40	34	29	35	30	26	30	26	24
8	56	43	36	30	52	41	34	29	36	30	26	32	27	24	28	24	21
9	52	40	32	27	48	37	31	26	33	28	24	29	25	21	26	22	19
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17

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	2.3
10°-20°	349.6	6.5
20°-30°	506.9	9.4
30°-40°	577.5	10.7
40°-50°	562.8	10.4
50°-60°	473.7	8.7
60°-70°	331.9	6.1
70°-80°	170.2	3.1
80°-90°	43.5	0.8
90°-100°	25.2	0.5
100°-110°	167.3	3.1
110°-120°	301.4	5.6
120°-130°	386.9	7.1
130°-140°	416.1	7.7
140°-150°	390.5	7.2
150°-160°	315.9	5.8
160°-170°	204.3	3.8
170°-180°	70.4	1.3
0°-30°	981.5	18.1
0°-40°	1559.0	28.8
0°-60°	2595.5	47.9
0°-90°	3141.1	58.0
90°-120°	493.9	9.1
90°-150°	1687.3	31.1
90°-180°	2278.0	42.0
0°-180°	5419.0	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°	0	5	9	12	13	5
95°	31	30	9	12	12	38
105°	162	164	164	164	163	171
115°	303	306	307	304	301	301
125°	432	435	435	433	432	385
135°	538	542	540	539	536	415
145°	624	625	625	626	622	390
155°	687	684	685	687	682	317
165°	725	722	722	726	721	205
175°	742	738	739	743	738	71
180°	742	742	742	742	742	

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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°	0.5	4.9	8.8	11.5	13.2
92.5°	10.4	5.5	8.8	11.5	12.1
95°	31.3	29.7	8.8	11.5	11.5
97.5°	58.8	62.1	9.9	11.0	11.5
100°	91.8	93.5	95.6	13.7	11.5
102.5°	125.3	127.5	128.6	129.7	83.6
105°	161.6	163.8	163.8	163.8	163.3
107.5°	199.0	199.0	200.1	200.6	198.4
110°	235.3	235.3	236.4	234.7	235.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.4	271.0	271.6	269.4	268.3
115°	303.4	306.2	306.7	304.5	301.2
117.5°	339.2	339.2	341.4	338.1	337.0
120°	372.2	371.6	373.3	372.2	369.4
122.5°	401.3	404.0	404.6	403.5	400.2
125°	431.5	435.4	435.4	433.2	431.5
127.5°	460.7	463.4	462.9	461.8	457.4
130°	487.0	489.8	490.3	488.7	485.9
132.5°	513.4	516.7	515.1	515.1	512.3
135°	538.2	541.5	540.4	539.3	536.0
137.5°	561.3	564.5	563.4	563.4	560.7
140°	583.8	584.9	584.3	585.4	582.1
142.5°	604.1	604.7	605.8	605.8	602.5
145°	623.9	625.0	625.0	625.6	622.3
147.5°	641.5	641.5	642.1	642.6	638.8
150°	658.0	656.9	658.0	659.1	654.7
152.5°	673.9	671.2	672.3	673.4	669.5
155°	687.1	683.8	684.9	686.6	682.2
157.5°	697.6	695.9	695.9	697.6	693.2
160°	708.6	705.3	705.8	708.0	703.6
162.5°	717.4	714.1	714.6	717.9	713.0
165°	725.1	721.8	722.3	725.6	721.2
167.5°	731.1	727.8	728.4	732.2	727.3
170°	736.1	732.2	732.8	737.2	732.2
172.5°	739.4	735.5	736.6	740.5	735.5
175°	741.6	738.3	738.8	743.2	738.3
177.5°	743.2	739.9	740.5	744.3	739.9
180°	741.6	741.6	741.6	741.6	741.6

(END OF REPORT)