

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: P1027223

Luminaire Tested: S125RDIP-B610D1270UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027223
REPORT IS A COMBINATION OF REPORTS P1005574 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B610D1270UB2750-4F0-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

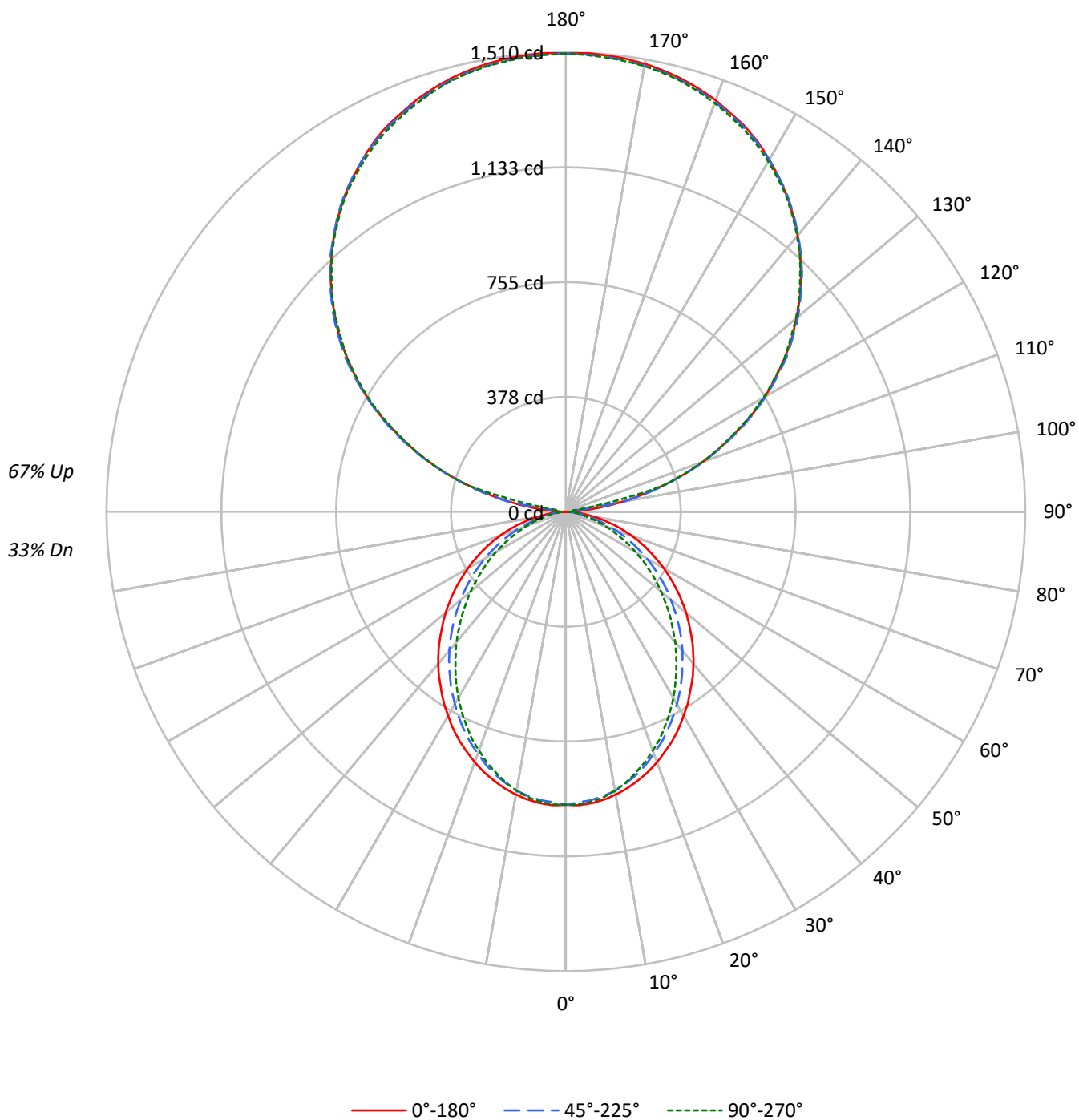
Lumens per Lamp: N/A
Luminaire Lumens: 6906.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	41	41	41	33		
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28		
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	30	29	24		
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	27	25	20		
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22	17		
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	21	19	15		
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13		
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15	12		
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11		
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10		
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6172	6172	6172
5°	6173	6018	6028
10°	6113	5867	5815
15°	6026	5654	5535
20°	5919	5399	5241
25°	5797	5149	4926
30°	5646	4876	4595
35°	5492	4597	4244
40°	5346	4311	3900
45°	5171	4002	3541
50°	4994	3675	3175
55°	4787	3352	2796
60°	4575	2983	2402
65°	4324	2571	1979
70°	4030	2093	1557
75°	3625	1574	1135
80°	3057	1020	765
85°	2287	548	431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.3
10°-20°	253.4	3.7
20°-30°	367.4	5.3
30°-40°	418.6	6.1
40°-50°	408.0	5.9
50°-60°	343.3	5.0
60°-70°	240.6	3.5
70°-80°	123.3	1.8
80°-90°	33.0	0.5
90°-100°	51.2	0.7
100°-110°	340.0	4.9
110°-120°	612.3	8.9
120°-130°	785.9	11.4
130°-140°	845.3	12.2
140°-150°	793.3	11.5
150°-160°	641.7	9.3
160°-170°	415.0	6.0
170°-180°	143.1	2.1
0°-30°	711.4	10.3
0°-40°	1130.0	16.4
0°-60°	1881.3	27.2
0°-90°	2278.2	33.0
90°-120°	1003.5	14.5
90°-150°	3428.0	49.6
90°-180°	4628.0	67.0
0°-180°	6906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	962	959	951	958	957	91
15°	915	910	895	894	888	258
25°	830	818	792	782	774	382
35°	714	697	664	643	633	447
45°	585	564	524	495	484	451
55°	444	420	380	347	335	397
65°	300	276	237	208	197	298
75°	160	138	108	92	87	169
85°	40	27	23	23	22	44
90°	1	10	18	24	27	5
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°	963.3	963.3	963.3	963.3	963.3
2.5°	965.5	963.3	956.1	963.3	962.6
5°	961.9	959.0	951.0	958.2	956.8
7.5°	954.6	951.7	942.2	948.0	946.6
10°	943.7	941.5	931.3	933.5	931.3
12.5°	931.3	928.4	913.9	915.3	911.7
15°	914.6	910.2	894.9	894.2	887.7
17.5°	897.1	890.6	872.4	868.7	863.6
20°	876.0	868.7	845.5	841.8	835.3
22.5°	852.7	845.5	820.7	812.7	807.6
25°	829.5	818.5	791.6	782.2	774.2
27.5°	803.3	790.2	761.8	749.4	741.4
30°	774.2	760.3	729.8	713.0	706.5
32.5°	745.8	729.0	697.8	678.8	670.1
35°	714.5	697.0	664.3	643.2	633.0
37.5°	684.7	663.6	630.1	605.4	595.2
40°	652.6	630.8	595.9	568.2	559.5
42.5°	619.2	596.6	560.2	534.1	520.2
45°	585.0	563.9	523.9	494.8	483.8
47.5°	549.3	527.5	487.5	457.7	445.3
50°	515.9	491.8	450.4	419.8	408.9
52.5°	479.5	454.7	416.2	382.7	371.8
55°	443.8	420.5	379.8	347.1	335.4
57.5°	407.4	382.7	343.4	311.4	301.2
60°	372.5	347.1	307.8	275.8	264.8
62.5°	335.4	311.4	271.4	242.3	231.4
65°	300.5	275.8	237.2	208.1	197.2
67.5°	265.6	240.8	203.7	176.1	167.3
70°	229.9	205.2	168.8	146.2	137.5
72.5°	195.0	171.0	137.5	117.1	112.0
75°	160.1	138.2	107.7	91.7	86.6
77.5°	124.4	107.0	81.5	69.1	64.8
80°	94.6	77.1	56.8	50.2	48.7
82.5°	65.5	50.2	37.8	35.7	34.9
85°	40.0	26.9	23.3	22.6	21.8
87.5°	16.7	11.6	10.9	10.9	10.2
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)