

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: P1028471

Luminaire Tested: S125RDIP-B1090D1270UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028471
REPORT IS A COMBINATION OF REPORTS P1004996 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1270UB50-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

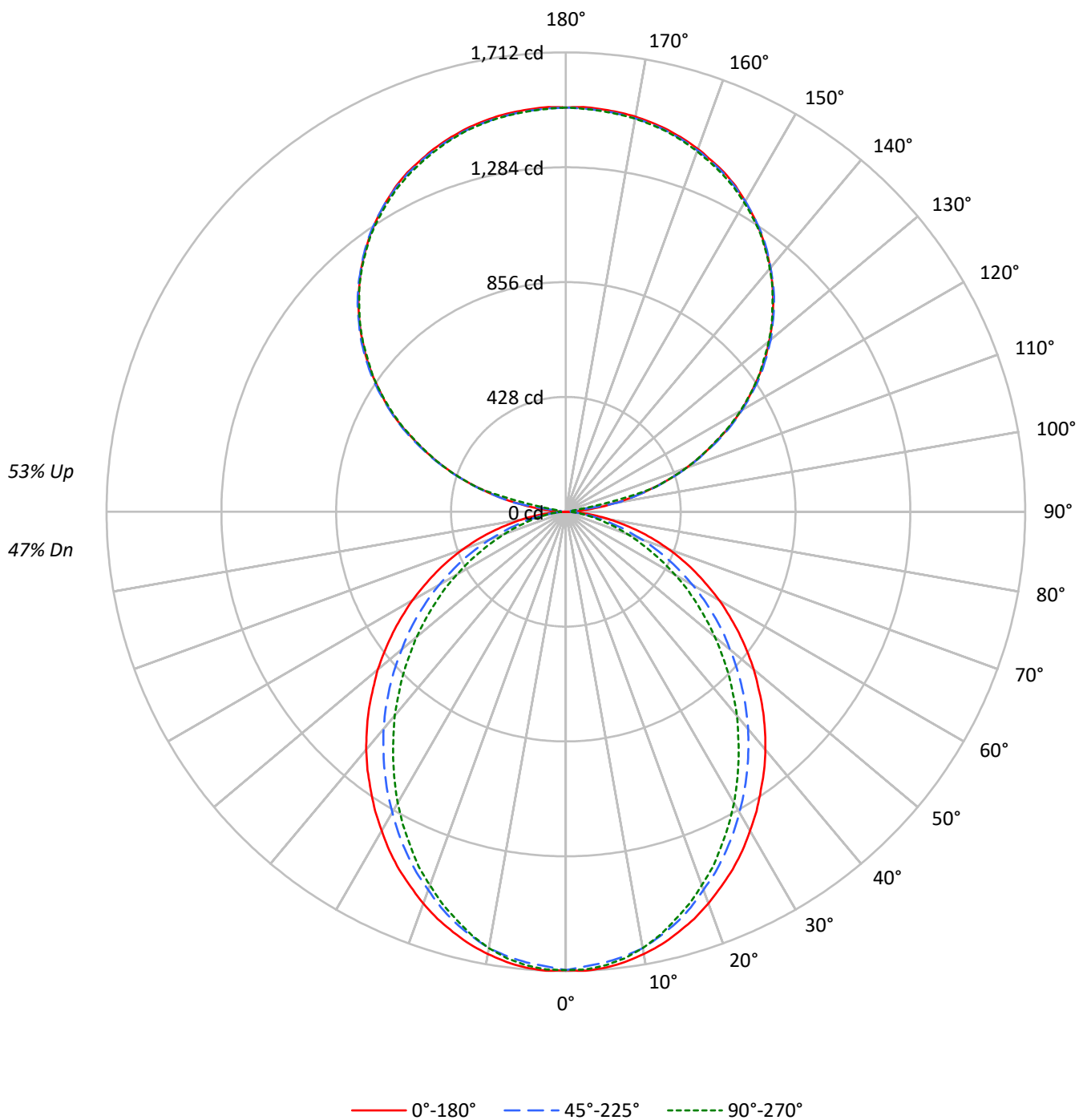
Lumens per Lamp: N/A
Luminaire Lumens: 8666.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47	47	47
1	97	93	89	86	89	86	82	79	72	69	67	59	57	56	47	46	45	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29	29	29
4	74	64	56	50	68	59	52	47	50	44	40	41	37	34	33	31	28	25	25	25
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	22	22	22
6	63	51	43	37	58	47	40	35	40	35	31	34	29	26	27	24	22	19	19	19
7	58	46	38	33	53	43	36	31	36	31	27	31	26	23	25	22	20	17	17	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15	15	15
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14	14	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	13	13	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10945	10945	10945
5°	10946	10672	10689
10°	10839	10403	10312
15°	10686	10027	9815
20°	10496	9574	9294
25°	10279	9132	8735
30°	10012	8646	8148
35°	9739	8152	7525
40°	9481	7645	6917
45°	9170	7097	6279
50°	8855	6516	5630
55°	8488	5944	4958
60°	8114	5290	4261
65°	7668	4558	3510
70°	7147	3710	2762
75°	6426	2791	2012
80°	5419	1806	1356
85°	4059	971	764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9170 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.9
10°-20°	449.3	5.2
20°-30°	651.5	7.5
30°-40°	742.2	8.6
40°-50°	723.5	8.3
50°-60°	608.8	7.0
60°-70°	426.7	4.9
70°-80°	218.7	2.5
80°-90°	56.8	0.7
90°-100°	51.2	0.6
100°-110°	340.0	3.9
110°-120°	612.3	7.1
120°-130°	785.9	9.1
130°-140°	845.3	9.8
140°-150°	793.3	9.2
150°-160°	641.7	7.4
160°-170°	415.0	4.8
170°-180°	143.1	1.7
0°-30°	1261.6	14.6
0°-40°	2003.8	23.1
0°-60°	3336.1	38.5
0°-90°	4038.2	46.6
90°-120°	1003.5	11.6
90°-150°	3428.0	39.6
90°-180°	4628.0	53.4
0°-180°	8666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1706	1700	1686	1699	1697	162
15°	1622	1614	1587	1586	1574	457
25°	1471	1452	1404	1387	1373	677
35°	1267	1236	1178	1141	1122	793
45°	1037	1000	929	877	858	800
55°	787	746	674	615	595	704
65°	533	489	421	369	350	528
75°	284	245	191	163	154	300
85°	71	48	41	40	39	78
90°	1	10	18	24	27	7
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°	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1712.1	1708.3	1695.4	1708.3	1707.0
5°	1705.7	1700.5	1686.3	1699.2	1696.6
7.5°	1692.8	1687.6	1670.8	1681.2	1678.6
10°	1673.4	1669.5	1651.5	1655.4	1651.5
12.5°	1651.5	1646.3	1620.5	1623.1	1616.6
15°	1621.8	1614.1	1587.0	1585.7	1574.1
17.5°	1590.8	1579.2	1547.0	1540.5	1531.5
20°	1553.4	1540.5	1499.2	1492.8	1481.2
22.5°	1512.1	1499.2	1455.4	1441.2	1432.1
25°	1470.9	1451.5	1403.8	1387.0	1372.8
27.5°	1424.4	1401.2	1350.9	1328.9	1314.7
30°	1372.8	1348.3	1294.1	1264.4	1252.8
32.5°	1322.5	1292.8	1237.3	1203.8	1188.3
35°	1267.0	1236.0	1178.0	1140.6	1122.5
37.5°	1214.1	1176.7	1117.3	1073.5	1055.4
40°	1157.3	1118.6	1056.7	1007.7	992.2
42.5°	1098.0	1058.0	993.5	947.0	922.5
45°	1037.3	999.9	929.0	877.4	858.0
47.5°	974.1	935.4	864.4	811.6	789.6
50°	914.8	872.2	798.6	744.5	725.1
52.5°	850.3	806.4	738.0	678.7	659.3
55°	787.0	745.7	673.5	615.4	594.8
57.5°	722.5	678.7	609.0	552.2	534.2
60°	660.6	615.4	545.8	489.0	469.6
62.5°	594.8	552.2	481.3	429.6	410.3
65°	532.9	489.0	420.6	369.0	349.7
67.5°	470.9	427.1	361.3	312.2	296.8
70°	407.7	363.8	299.3	259.3	243.9
72.5°	345.8	303.2	243.9	207.7	198.7
75°	283.8	245.1	191.0	162.6	153.5
77.5°	220.6	189.7	144.5	122.6	114.8
80°	167.7	136.8	100.6	89.0	86.4
82.5°	116.1	89.0	67.1	63.2	61.9
85°	71.0	47.7	41.3	40.0	38.7
87.5°	29.7	20.6	19.4	19.4	18.1
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)