

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: P1028560

Luminaire Tested: S125RDIP-B1090D850UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028560
REPORT IS A COMBINATION OF REPORTS P1005117 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D850UB50-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

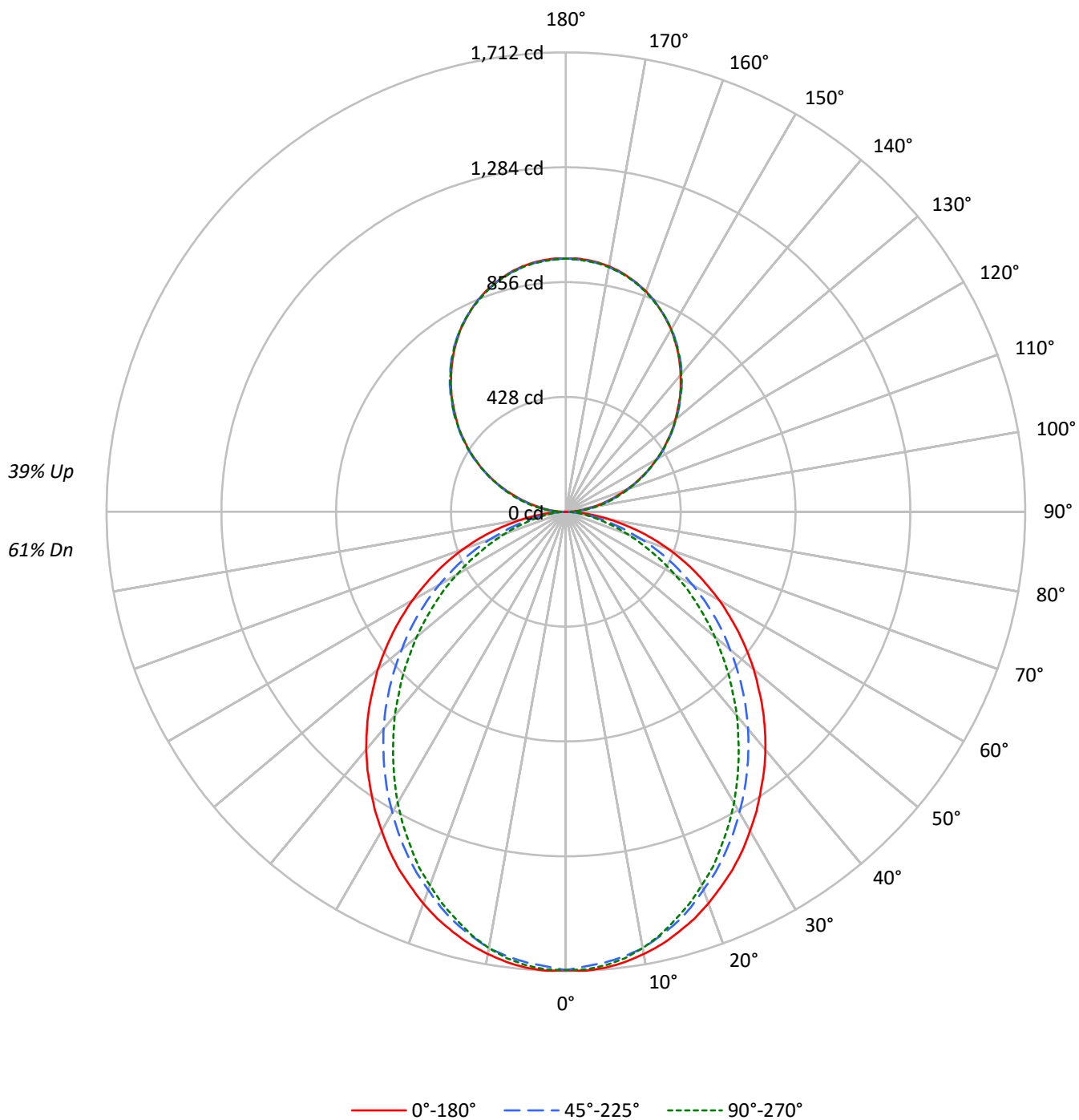
Lumens per Lamp: N/A
Luminaire Lumens: 6671.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.9
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

TEST NUMBER: P1028560

CATALOG NUMBER: S125RDIP-B1090D850UB50-4F0-XX-W2A-F1

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56
2	92	84	78	73	85	79	74	69	69	65	62	60	57	54	52	50	48
3	84	74	67	61	78	70	63	58	61	56	52	53	50	46	46	43	41
4	77	66	58	52	72	62	55	49	55	49	45	48	43	40	41	38	35
5	71	59	51	45	66	56	48	43	49	43	39	43	38	35	37	34	31
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	27
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	27	24
8	56	44	36	31	52	41	34	29	37	31	27	33	28	24	29	25	22
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	25	21	18

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

TEST NUMBER: P1028560

CATALOG NUMBER: S125RDIP-B1090D850UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.4
10°-20°	449.3	6.7
20°-30°	651.5	9.8
30°-40°	742.2	11.1
40°-50°	723.5	10.8
50°-60°	608.8	9.1
60°-70°	426.7	6.4
70°-80°	218.7	3.3
80°-90°	56.0	0.8
90°-100°	62.7	0.9
100°-110°	186.4	2.8
110°-120°	316.1	4.7
120°-130°	416.2	6.2
130°-140°	466.4	7.0
140°-150°	457.1	6.9
150°-160°	384.0	5.8
160°-170°	255.2	3.8
170°-180°	89.3	1.3
0°-30°	1261.6	18.9
0°-40°	2003.8	30.0
0°-60°	3336.1	50.0
0°-90°	4037.5	60.5
90°-120°	565.3	8.5
90°-150°	1905.0	28.6
90°-180°	2634.0	39.5
0°-180°	6671.0	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	7	12	15	18	7
95°	48	49	56	62	63	50
105°	167	171	176	180	182	179
115°	316	319	321	320	319	313
125°	462	466	467	466	465	414
135°	601	605	606	606	603	463
145°	728	731	733	733	731	455
155°	833	833	834	836	833	384
165°	905	904	905	908	903	255
175°	941	938	938	943	938	89
180°	944	944	944	944	944	

TEST NUMBER: P1028560

CATALOG NUMBER: S125RDIP-B1090D850UB50-4F0-XX-W2A-F1

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°	0.7	6.6	11.7	15.4	17.6
92.5°	22.0	25.7	32.3	37.5	38.9
95°	47.7	49.2	56.5	61.7	63.2
97.5°	73.4	74.2	84.4	88.9	89.6
100°	102.8	102.8	112.4	119.0	120.4
102.5°	134.4	138.1	141.7	149.1	151.3
105°	167.4	171.1	175.5	179.9	182.1
107.5°	203.4	207.1	210.8	213.0	213.0
110°	240.9	244.5	246.7	248.9	248.2

TEST NUMBER: P1028560

CATALOG NUMBER: S125RDIP-B1090D850UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.0	280.5	283.4	284.2	282.7
115°	316.5	319.4	320.9	320.2	319.4
117.5°	354.7	355.4	356.9	357.6	354.7
120°	389.9	393.6	394.3	394.3	391.4
122.5°	428.1	428.8	431.0	430.3	428.1
125°	461.9	466.3	467.0	465.6	464.8
127.5°	499.3	501.5	502.3	501.5	500.1
130°	532.4	536.1	537.5	536.8	535.3
132.5°	565.4	572.0	571.3	570.6	568.4
135°	600.7	605.1	605.8	605.8	602.9
137.5°	633.7	638.1	639.6	640.3	636.7
140°	665.3	669.0	671.2	672.6	669.0
142.5°	696.9	699.8	702.7	703.5	699.8
145°	727.7	730.7	732.9	732.9	730.7
147.5°	756.4	758.6	760.0	762.2	756.4
150°	785.0	784.3	787.2	787.2	785.7
152.5°	808.5	810.0	810.7	812.9	810.0
155°	832.7	832.7	833.5	836.4	832.7
157.5°	854.8	853.3	854.0	857.0	851.8
160°	873.8	871.6	872.4	875.3	871.6
162.5°	890.7	889.3	889.3	892.9	888.5
165°	905.4	904.0	904.7	907.6	903.2
167.5°	918.6	915.7	915.7	920.1	915.7
170°	928.9	926.0	926.0	930.4	925.2
172.5°	936.3	933.3	933.3	937.7	933.3
175°	941.4	938.5	938.5	942.9	937.7
177.5°	945.1	942.1	941.4	945.8	940.7
180°	943.6	943.6	943.6	943.6	943.6

(END OF REPORT)