

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: P1028543

Luminaire Tested: S125RDIP-B1090D850UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028543
REPORT IS A COMBINATION OF REPORTS P1005098 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D850UB30-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

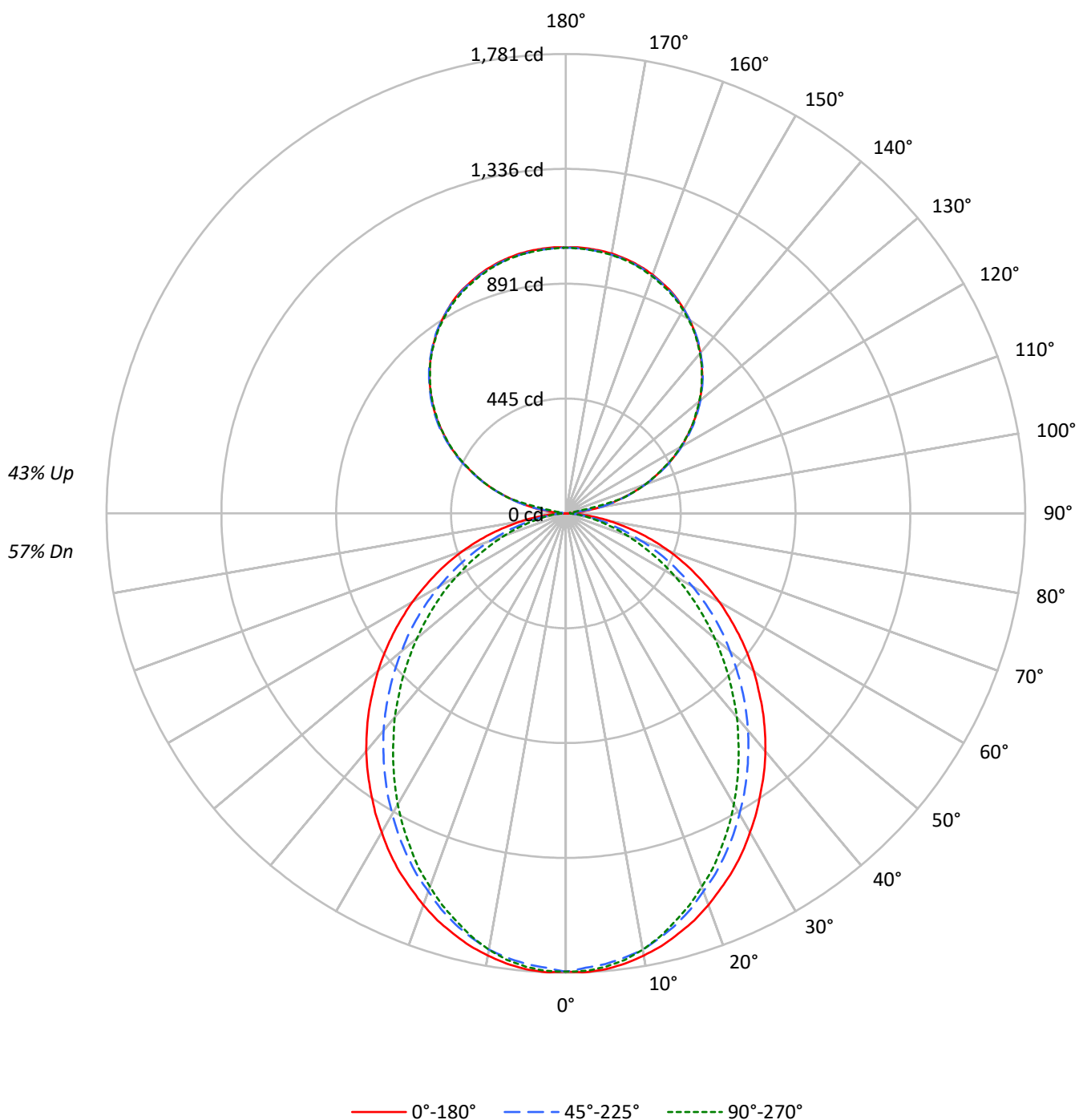
Lumens per Lamp: N/A
Luminaire Lumens: 7365.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

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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	101	101	101	101	87	87	87	74	74	74	63	63	63
1	100	95	92	88	93	89	86	83	77	75	72	66	64	63	56	55	53
2	91	84	77	72	84	78	73	68	68	64	60	58	55	53	49	47	45
3	83	74	66	61	77	69	62	57	60	55	51	52	48	45	44	41	39
4	76	65	57	51	71	61	54	49	53	48	44	46	42	39	39	36	34
5	70	58	50	44	65	55	48	42	48	42	38	42	37	34	36	32	29
6	65	52	44	39	60	49	42	37	43	37	33	38	33	30	32	29	26
7	60	47	40	34	56	45	37	32	39	34	29	34	30	26	30	26	23
8	56	43	35	30	52	41	34	29	36	30	26	31	27	23	27	24	21
9	52	40	32	27	48	37	30	26	33	27	23	29	24	21	25	22	19
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11384	11384	11384
5°	11385	11100	11118
10°	11275	10821	10726
15°	11115	10429	10209
20°	10918	9958	9667
25°	10691	9498	9086
30°	10414	8992	8476
35°	10131	8479	7827
40°	9862	7951	7194
45°	9538	7382	6531
50°	9210	6778	5856
55°	8829	6182	5157
60°	8439	5502	4432
65°	7976	4741	3650
70°	7434	3859	2872
75°	6684	2902	2093
80°	5639	1880	1411
85°	4220	1009	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	2.3
10°-20°	467.3	6.3
20°-30°	677.6	9.2
30°-40°	772.0	10.5
40°-50°	752.5	10.2
50°-60°	633.3	8.6
60°-70°	443.8	6.0
70°-80°	227.5	3.1
80°-90°	58.3	0.8
90°-100°	35.0	0.5
100°-110°	232.6	3.2
110°-120°	418.8	5.7
120°-130°	537.6	7.3
130°-140°	578.2	7.9
140°-150°	542.6	7.4
150°-160°	438.9	6.0
160°-170°	283.9	3.9
170°-180°	97.9	1.3
0°-30°	1312.2	17.8
0°-40°	2084.2	28.3
0°-60°	3470.0	47.1
0°-90°	4199.5	57.0
90°-120°	686.3	9.3
90°-150°	2344.8	31.8
90°-180°	3165.0	43.0
0°-180°	7365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1774	1769	1754	1767	1765	168
15°	1687	1679	1651	1649	1637	476
25°	1530	1510	1460	1443	1428	704
35°	1318	1286	1225	1186	1168	825
45°	1079	1040	966	913	892	832
55°	819	776	700	640	619	732
65°	554	509	438	384	364	549
75°	295	255	199	169	160	312
85°	74	50	43	42	40	81
90°	1	7	12	16	18	6
95°	44	41	12	16	16	53
105°	225	228	228	228	227	238
115°	422	426	426	423	419	418
125°	600	605	605	602	600	536
135°	748	752	751	749	745	577
145°	867	869	869	869	865	542
155°	955	950	952	954	948	440
165°	1008	1003	1004	1008	1002	285
175°	1030	1026	1027	1033	1026	98
180°	1030	1030	1030	1030	1030	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.8	1776.8	1776.8	1776.8	1776.8
2.5°	1780.8	1776.8	1763.4	1776.8	1775.5
5°	1774.1	1768.8	1754.0	1767.4	1764.7
7.5°	1760.7	1755.4	1737.9	1748.6	1746.0
10°	1740.6	1736.6	1717.8	1721.8	1717.8
12.5°	1717.8	1712.4	1685.6	1688.3	1681.5
15°	1686.9	1678.9	1650.7	1649.3	1637.3
17.5°	1654.7	1642.6	1609.1	1602.4	1593.0
20°	1615.8	1602.4	1559.4	1552.7	1540.6
22.5°	1572.8	1559.4	1513.8	1499.0	1489.6
25°	1529.9	1509.8	1460.1	1442.7	1427.9
27.5°	1481.6	1457.4	1405.1	1382.3	1367.5
30°	1427.9	1402.4	1346.0	1315.2	1303.1
32.5°	1375.6	1344.7	1287.0	1252.1	1236.0
35°	1317.9	1285.6	1225.3	1186.3	1167.5
37.5°	1262.8	1223.9	1162.2	1116.6	1097.8
40°	1203.8	1163.5	1099.1	1048.1	1032.0
42.5°	1142.1	1100.4	1033.3	985.0	959.5
45°	1079.0	1040.1	966.2	912.6	892.4
47.5°	1013.2	973.0	899.1	844.1	821.3
50°	951.5	907.2	830.7	774.3	754.2
52.5°	884.4	838.8	767.6	705.9	685.8
55°	818.6	775.7	700.5	640.1	618.7
57.5°	751.5	705.9	633.4	574.4	555.6
60°	687.1	640.1	567.7	508.6	488.5
62.5°	618.7	574.4	500.6	446.9	426.8
65°	554.3	508.6	437.5	383.8	363.7
67.5°	489.8	444.2	375.8	324.8	308.7
70°	424.1	378.4	311.3	269.7	253.6
72.5°	359.7	315.4	253.6	216.1	206.7
75°	295.2	255.0	198.6	169.1	159.7
77.5°	229.5	197.3	150.3	127.5	119.4
80°	174.5	142.3	104.7	92.6	89.9
82.5°	120.8	92.6	69.8	65.8	64.4
85°	73.8	49.7	42.9	41.6	40.3
87.5°	30.9	21.5	20.1	20.1	18.8
90°	0.8	6.9	12.2	16.0	18.3
92.5°	14.5	7.6	12.2	16.0	16.8
95°	43.5	41.3	12.2	16.0	16.0
97.5°	81.7	86.3	13.8	15.3	16.0
100°	127.6	129.9	132.9	19.1	16.0
102.5°	174.2	177.2	178.8	180.3	116.1
105°	224.6	227.6	227.6	227.6	226.9
107.5°	276.5	276.5	278.1	278.8	275.8
110°	326.9	326.9	328.5	326.2	326.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	374.3	376.6	377.4	374.3	372.8
115°	421.7	425.5	426.3	423.2	418.6
117.5°	471.3	471.3	474.4	469.8	468.3
120°	517.2	516.4	518.7	517.2	513.3
122.5°	557.6	561.5	562.2	560.7	556.1
125°	599.7	605.0	605.0	602.0	599.7
127.5°	640.1	644.0	643.2	641.7	635.6
130°	676.8	680.6	681.4	679.1	675.3
132.5°	713.5	718.1	715.8	715.8	712.0
135°	747.9	752.4	750.9	749.4	744.8
137.5°	779.9	784.5	783.0	783.0	779.2
140°	811.3	812.8	812.0	813.6	809.0
142.5°	839.5	840.3	841.8	841.8	837.2
145°	867.0	868.6	868.6	869.3	864.7
147.5°	891.5	891.5	892.2	893.0	887.6
150°	914.4	912.9	914.4	915.9	909.8
152.5°	936.5	932.7	934.2	935.8	930.4
155°	954.9	950.3	951.8	954.1	948.0
157.5°	969.4	967.1	967.1	969.4	963.3
160°	984.7	980.1	980.8	983.9	977.8
162.5°	996.9	992.3	993.1	997.7	990.8
165°	1007.6	1003.0	1003.8	1008.3	1002.2
167.5°	1016.0	1011.4	1012.2	1017.5	1010.6
170°	1022.9	1017.5	1018.3	1024.4	1017.5
172.5°	1027.4	1022.1	1023.6	1029.0	1022.1
175°	1030.5	1025.9	1026.7	1032.8	1025.9
177.5°	1032.8	1028.2	1029.0	1034.3	1028.2
180°	1030.5	1030.5	1030.5	1030.5	1030.5

(END OF REPORT)