

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: P1028544

Luminaire Tested: S125RDIP-B1090D850UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028544
REPORT IS A COMBINATION OF REPORTS P1005099 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-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

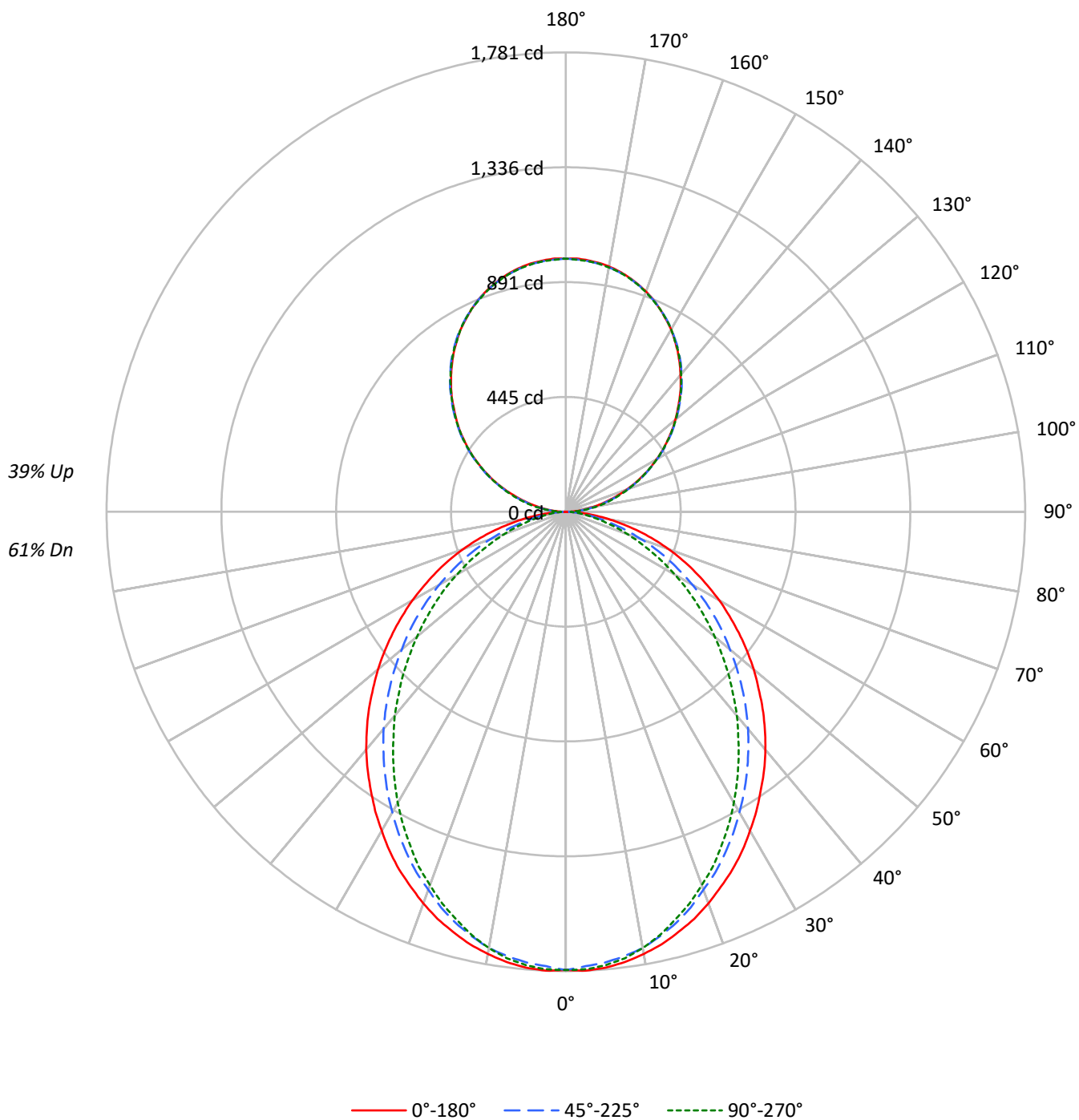
Lumens per Lamp: N/A
Luminaire Lumens: 6938.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	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°	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	2.4
10°-20°	467.3	6.7
20°-30°	677.6	9.8
30°-40°	772.0	11.1
40°-50°	752.5	10.8
50°-60°	633.3	9.1
60°-70°	443.8	6.4
70°-80°	227.5	3.3
80°-90°	58.3	0.8
90°-100°	65.2	0.9
100°-110°	193.8	2.8
110°-120°	328.7	4.7
120°-130°	432.8	6.2
130°-140°	485.0	7.0
140°-150°	475.3	6.9
150°-160°	399.3	5.8
160°-170°	265.4	3.8
170°-180°	92.9	1.3
0°-30°	1312.2	18.9
0°-40°	2084.2	30.0
0°-60°	3470.0	50.0
0°-90°	4199.5	60.5
90°-120°	587.8	8.5
90°-150°	1980.9	28.6
90°-180°	2738.0	39.5
0°-180°	6938.0	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	8
95°	50	51	59	64	66	52
105°	174	178	182	187	189	186
115°	329	332	334	333	332	326
125°	480	485	486	484	483	430
135°	625	629	630	630	627	481
145°	757	760	762	762	760	473
155°	866	866	867	870	866	399
165°	942	940	941	944	939	266
175°	979	976	976	980	975	93
180°	981	981	981	981	981	

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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°	22.9	26.7	33.6	38.9	40.5
95°	49.6	51.2	58.8	64.1	65.7
97.5°	76.4	77.1	87.8	92.4	93.2
100°	106.9	106.9	116.8	123.7	125.2
102.5°	139.7	143.6	147.4	155.0	157.3
105°	174.1	177.9	182.5	187.1	189.4
107.5°	211.5	215.3	219.1	221.4	221.4
110°	250.5	254.3	256.6	258.9	258.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	291.7	294.7	295.5	294.0
115°	329.1	332.2	333.7	332.9	332.2
117.5°	368.8	369.6	371.1	371.9	368.8
120°	405.5	409.3	410.0	410.0	407.0
122.5°	445.2	445.9	448.2	447.5	445.2
125°	480.3	484.9	485.6	484.1	483.3
127.5°	519.2	521.5	522.3	521.5	520.0
130°	553.6	557.4	558.9	558.2	556.7
132.5°	588.0	594.8	594.1	593.3	591.0
135°	624.6	629.2	630.0	630.0	626.9
137.5°	659.0	663.6	665.1	665.8	662.0
140°	691.8	695.6	697.9	699.4	695.6
142.5°	724.6	727.7	730.8	731.5	727.7
145°	756.7	759.8	762.1	762.1	759.8
147.5°	786.5	788.8	790.3	792.6	786.5
150°	816.3	815.5	818.6	818.6	817.0
152.5°	840.7	842.2	843.0	845.3	842.2
155°	865.9	865.9	866.7	869.7	865.9
157.5°	888.8	887.3	888.1	891.1	885.8
160°	908.7	906.4	907.1	910.2	906.4
162.5°	926.2	924.7	924.7	928.5	923.9
165°	941.5	940.0	940.7	943.8	939.2
167.5°	955.2	952.2	952.2	956.8	952.2
170°	965.9	962.9	962.9	967.5	962.1
172.5°	973.6	970.5	970.5	975.1	970.5
175°	978.9	975.9	975.9	980.4	975.1
177.5°	982.7	979.7	978.9	983.5	978.2
180°	981.2	981.2	981.2	981.2	981.2

(END OF REPORT)