

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: P1009752

Luminaire Tested: S122RDIP-B1005D725UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009752
REPORT IS A COMBINATION OF REPORTS P987958 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B1005D725UB30-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

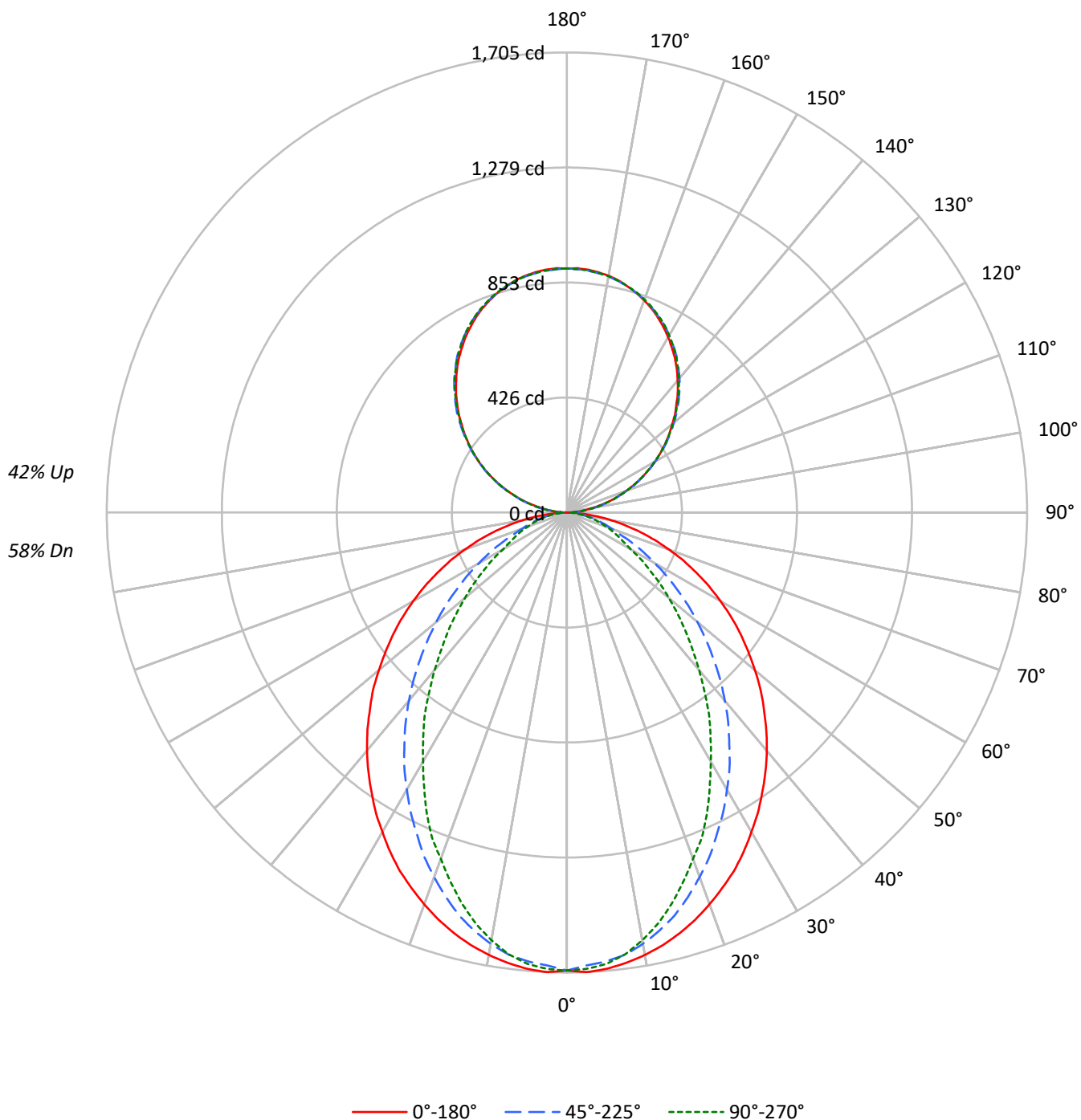
Lumens per Lamp: N/A
Luminaire Lumens: 6023.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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: P1009752

CATALOG NUMBER: S122RDIP-B1005D725UB30-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1009752

CATALOG NUMBER: S122RDIP-B1005D725UB30-4F0-XX-W2A-F1

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	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	96	92	89	93	90	86	84	78	75	73	67	65	64	57	56	55
2	92	84	79	74	85	79	74	69	69	65	62	59	57	54	51	49	47
3	84	75	68	62	78	70	64	59	61	56	52	53	49	46	46	43	41
4	77	67	59	53	72	63	56	50	55	49	45	48	44	40	41	38	35
5	71	60	52	46	66	56	49	44	49	44	39	43	39	35	37	34	31
6	66	54	46	40	61	51	44	38	45	39	35	39	35	31	34	31	28
7	61	49	41	35	57	46	39	34	41	35	31	36	31	28	31	28	25
8	57	44	37	32	53	42	35	30	37	32	28	33	28	25	29	25	23
9	53	41	33	28	49	39	32	27	34	29	25	30	26	23	27	23	21
10	50	38	30	26	46	36	29	25	32	26	23	28	24	21	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26869	26869	26869
5°	26912	25563	25373
10°	26648	24245	23445
15°	26282	22689	21246
20°	25798	20919	18947
25°	25301	19103	16843
30°	24634	17336	14546
35°	23981	15553	12573
40°	23317	13801	10541
45°	22545	11994	8768
50°	21747	10251	7139
55°	20917	8508	5668
60°	19952	6805	4287
65°	18841	5188	3486
70°	17496	3764	2772
75°	15814	2871	2117
80°	13365	1942	1421
85°	9337	890	687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22545 cd/sqm

TEST NUMBER: P1009752

CATALOG NUMBER: S122RDIP-B1005D725UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	2.6
10°-20°	436.7	7.3
20°-30°	613.1	10.2
30°-40°	668.4	11.1
40°-50°	614.3	10.2
50°-60°	482.4	8.0
60°-70°	314.0	5.2
70°-80°	161.7	2.7
80°-90°	43.9	0.7
90°-100°	56.0	0.9
100°-110°	177.9	3.0
110°-120°	304.4	5.1
120°-130°	400.4	6.6
130°-140°	449.4	7.5
140°-150°	440.7	7.3
150°-160°	369.7	6.1
160°-170°	245.2	4.1
170°-180°	85.7	1.4
0°-30°	1209.0	20.1
0°-40°	1877.3	31.2
0°-60°	2974.0	49.4
0°-90°	3493.6	58.0
90°-120°	538.3	8.9
90°-150°	1828.9	30.4
90°-180°	2529.0	42.0
0°-180°	6023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1697	1697	1697	1697	1697	
5°	1697	1690	1670	1684	1679	161
15°	1614	1598	1545	1516	1501	455
25°	1466	1416	1315	1252	1229	674
35°	1263	1184	1049	952	919	790
45°	1032	929	768	659	622	797
55°	785	665	499	407	378	701
65°	530	406	267	215	210	525
75°	283	175	123	112	111	299
85°	66	34	29	29	29	76
90°	1	10	27	25	26	6
95°	40	47	49	49	47	44
105°	164	166	168	170	170	173
115°	305	310	308	308	305	302
125°	444	451	449	447	446	397
135°	575	583	585	584	582	444
145°	698	703	708	708	706	436
155°	798	800	802	806	804	367
165°	868	867	867	873	869	245
175°	903	901	899	905	900	86
180°	905	905	905	905	905	

TEST NUMBER: P1009752

CATALOG NUMBER: S122RDIP-B1005D725UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1697.4	1697.4	1697.4	1697.4	1697.4
2.5°	1705.1	1697.4	1680.5	1695.9	1692.8
5°	1697.4	1689.8	1669.8	1683.6	1679.0
7.5°	1683.6	1674.4	1652.9	1659.0	1651.4
10°	1665.2	1654.4	1623.7	1619.1	1609.9
12.5°	1642.1	1628.3	1586.8	1577.6	1560.7
15°	1614.5	1597.6	1545.4	1516.2	1500.8
17.5°	1582.2	1557.6	1493.1	1459.3	1434.8
20°	1545.4	1514.6	1437.8	1399.4	1365.6
22.5°	1505.4	1470.1	1381.0	1328.8	1305.7
25°	1465.5	1416.3	1314.9	1252.0	1228.9
27.5°	1417.9	1365.6	1253.5	1181.3	1146.0
30°	1367.2	1308.8	1185.9	1107.6	1066.1
32.5°	1318.0	1247.3	1121.4	1029.2	990.8
35°	1262.7	1184.4	1049.2	952.4	918.6
37.5°	1208.9	1124.5	981.6	875.6	837.2
40°	1152.1	1059.9	910.9	801.9	761.9
42.5°	1093.7	995.4	840.3	726.6	688.2
45°	1032.3	929.4	768.1	659.0	622.1
47.5°	973.9	864.8	698.9	589.9	556.1
50°	909.4	800.3	631.4	525.4	493.1
52.5°	846.4	731.2	566.8	465.5	436.3
55°	785.0	665.2	499.2	407.1	377.9
57.5°	722.0	599.1	439.3	353.3	328.7
60°	657.5	534.6	376.4	298.0	273.4
62.5°	594.5	471.6	322.6	248.9	236.6
65°	530.0	405.5	267.3	215.1	210.5
67.5°	468.5	344.1	215.1	188.9	184.3
70°	404.0	284.2	178.2	162.8	156.7
72.5°	342.6	228.9	149.0	136.7	133.6
75°	282.7	175.1	122.9	112.1	110.6
77.5°	222.7	124.4	96.8	90.6	87.6
80°	167.4	89.1	73.7	67.6	67.6
82.5°	116.7	59.9	50.7	47.6	47.6
85°	66.1	33.8	29.2	29.2	29.2
87.5°	24.6	12.3	12.3	10.8	10.8
90°	0.8	9.9	26.7	25.2	26.0
92.5°	16.8	22.9	23.7	24.4	24.4
95°	39.7	47.3	48.9	48.9	47.3
97.5°	66.4	73.3	76.3	76.3	76.3
100°	97.0	103.1	105.4	105.4	104.6
102.5°	129.0	133.6	136.7	137.4	136.7
105°	164.1	166.4	168.0	169.5	169.5
107.5°	199.3	202.3	202.3	203.1	199.3
110°	232.9	237.4	237.4	237.4	235.2

TEST NUMBER: P1009752

CATALOG NUMBER: S122RDIP-B1005D725UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.5	274.1	273.3	271.0	269.5
115°	305.4	310.0	308.4	307.7	305.4
117.5°	341.3	347.4	343.6	341.3	339.0
120°	377.2	383.3	377.2	377.2	374.9
122.5°	410.0	417.6	413.8	411.5	410.0
125°	444.3	451.2	448.9	446.6	445.9
127.5°	477.9	486.3	483.3	480.2	477.9
130°	509.2	519.2	517.6	516.1	513.1
132.5°	544.4	552.0	552.8	548.9	546.6
135°	574.9	583.3	584.8	584.1	581.8
137.5°	608.5	615.4	616.9	616.1	613.1
140°	638.3	645.1	649.0	649.0	645.9
142.5°	668.8	675.7	678.0	678.7	675.7
145°	697.8	703.2	707.7	708.5	705.5
147.5°	723.8	730.6	733.7	735.2	732.2
150°	750.5	755.1	758.1	760.4	758.1
152.5°	774.2	778.7	782.6	785.6	782.6
155°	797.8	800.1	802.4	806.2	803.9
157.5°	818.4	820.0	821.5	826.8	823.0
160°	836.8	838.3	839.1	843.6	840.6
162.5°	853.6	853.6	854.3	859.7	855.9
165°	868.1	867.3	867.3	872.7	868.8
167.5°	881.1	878.8	878.8	884.1	880.3
170°	891.0	888.7	887.9	893.3	888.7
172.5°	897.8	895.6	894.8	900.1	895.6
175°	903.2	900.9	899.4	904.7	900.1
177.5°	906.2	904.0	902.4	907.0	902.4
180°	904.7	904.7	904.7	904.7	904.7

(END OF REPORT)