

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: P1009758

Luminaire Tested: S122RDIP-B1005D725UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009758
REPORT IS A COMBINATION OF REPORTS P987964 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B1005D725UB35-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

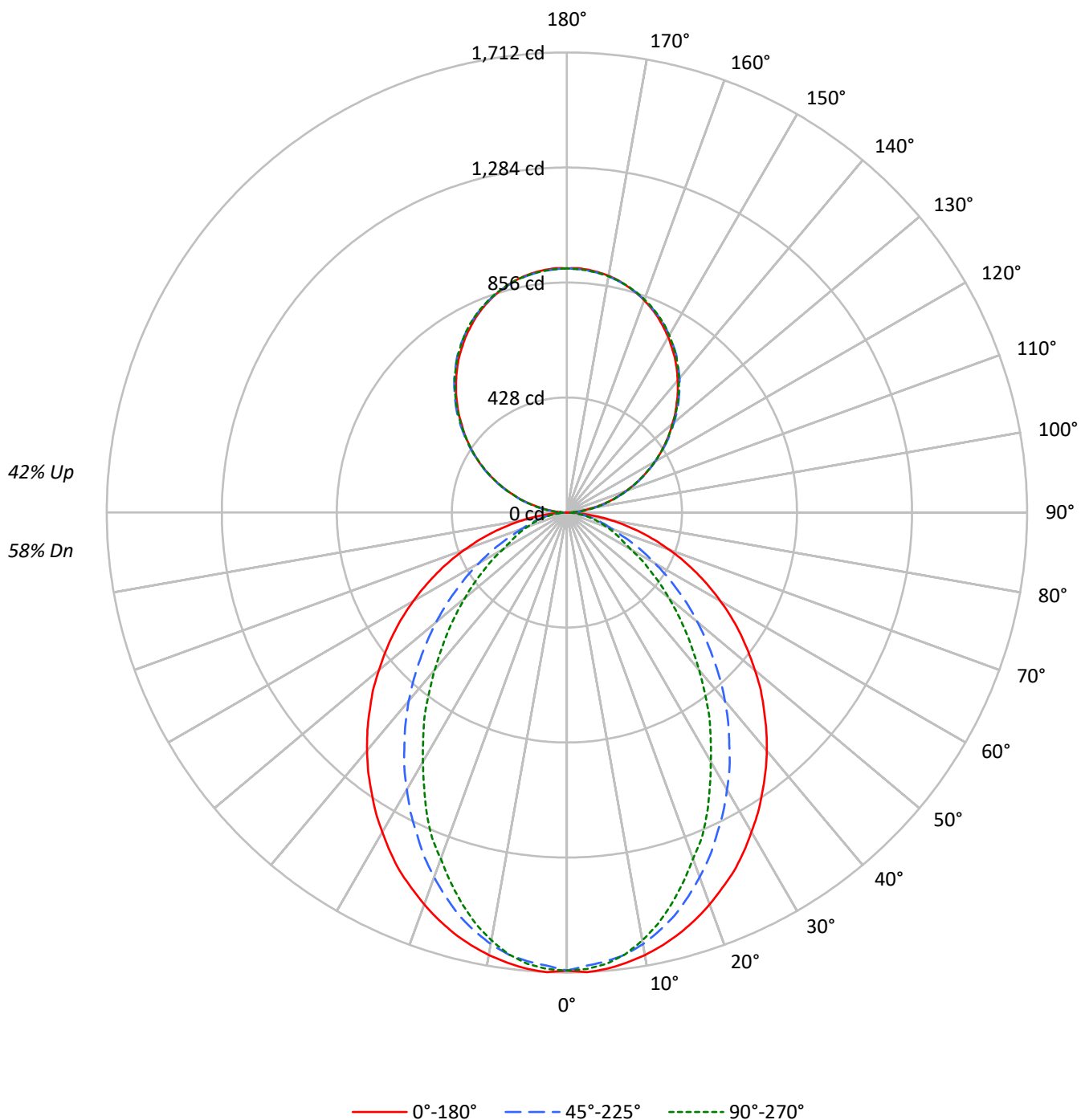
Lumens per Lamp: N/A
Luminaire Lumens: 6049.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1009758

CATALOG NUMBER: S122RDIP-B1005D725UB35-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1009758

CATALOG NUMBER: S122RDIP-B1005D725UB35-4F0-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°	26984	26984	26984
5°	27028	25673	25482
10°	26762	24349	23545
15°	26394	22786	21338
20°	25908	21009	19029
25°	25410	19186	16916
30°	24739	17410	14609
35°	24083	15619	12627
40°	23419	13860	10586
45°	22642	12045	8806
50°	21840	10295	7169
55°	21005	8545	5692
60°	20037	6834	4306
65°	18919	5209	3501
70°	17570	3780	2785
75°	15881	2882	2126
80°	13429	1953	1427
85°	9365	893	689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22642 cd/sqm

TEST NUMBER: P1009758

CATALOG NUMBER: S122RDIP-B1005D725UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	2.6
10°-20°	438.6	7.3
20°-30°	615.8	10.2
30°-40°	671.2	11.1
40°-50°	616.9	10.2
50°-60°	484.5	8.0
60°-70°	315.4	5.2
70°-80°	162.4	2.7
80°-90°	44.0	0.7
90°-100°	56.2	0.9
100°-110°	178.7	3.0
110°-120°	305.8	5.1
120°-130°	402.1	6.6
130°-140°	451.4	7.5
140°-150°	442.6	7.3
150°-160°	371.3	6.1
160°-170°	246.2	4.1
170°-180°	86.1	1.4
0°-30°	1214.2	20.1
0°-40°	1885.4	31.2
0°-60°	2986.8	49.4
0°-90°	3508.6	58.0
90°-120°	540.7	8.9
90°-150°	1836.8	30.4
90°-180°	2540.0	42.0
0°-180°	6049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1705	1697	1677	1691	1686	162
15°	1621	1604	1552	1523	1507	457
25°	1472	1422	1321	1257	1234	677
35°	1268	1190	1054	956	923	794
45°	1037	933	771	662	625	801
55°	788	668	501	409	380	704
65°	532	407	268	216	211	528
75°	284	176	123	113	111	300
85°	66	34	29	29	29	76
90°	1	10	27	25	26	6
95°	40	48	49	49	48	45
105°	165	167	169	170	170	174
115°	307	311	310	309	307	303
125°	446	453	451	449	448	399
135°	577	586	587	587	584	446
145°	701	706	711	712	708	438
155°	801	804	806	810	807	369
165°	872	871	871	876	873	246
175°	907	905	903	909	904	86
180°	909	909	909	909	909	

TEST NUMBER: P1009758

CATALOG NUMBER: S122RDIP-B1005D725UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1704.7	1704.7	1704.7	1704.7	1704.7
2.5°	1712.4	1704.7	1687.8	1703.2	1700.1
5°	1704.7	1697.0	1677.0	1690.8	1686.2
7.5°	1690.8	1681.6	1660.0	1666.2	1658.4
10°	1672.3	1661.5	1630.7	1626.1	1616.8
12.5°	1649.2	1635.3	1593.7	1584.4	1567.4
15°	1621.4	1604.5	1552.0	1522.7	1507.3
17.5°	1589.0	1564.3	1499.5	1465.6	1440.9
20°	1552.0	1521.1	1444.0	1405.4	1371.5
22.5°	1511.9	1476.4	1386.9	1334.5	1311.3
25°	1471.8	1422.4	1320.6	1257.3	1234.2
27.5°	1424.0	1371.5	1258.9	1186.4	1150.9
30°	1373.0	1314.4	1191.0	1112.3	1070.7
32.5°	1323.7	1252.7	1126.2	1033.6	995.1
35°	1268.1	1189.5	1053.7	956.5	922.6
37.5°	1214.1	1129.3	985.8	879.4	840.8
40°	1157.1	1064.5	914.8	805.3	765.2
42.5°	1098.4	999.7	843.9	729.7	691.1
45°	1036.7	933.4	771.4	661.8	624.8
47.5°	978.1	868.6	701.9	592.4	558.5
50°	913.3	803.8	634.1	527.6	495.2
52.5°	850.1	734.3	569.3	467.5	438.1
55°	788.3	668.0	501.4	408.8	379.5
57.5°	725.1	601.7	441.2	354.8	330.1
60°	660.3	536.9	378.0	299.3	274.6
62.5°	597.0	473.6	324.0	249.9	237.6
65°	532.2	407.3	268.4	216.0	211.4
67.5°	470.5	345.6	216.0	189.8	185.1
70°	405.7	285.4	179.0	163.5	157.4
72.5°	344.0	229.9	149.6	137.3	134.2
75°	283.9	175.9	123.4	112.6	111.1
77.5°	223.7	125.0	97.2	91.0	87.9
80°	168.2	89.5	74.1	67.9	67.9
82.5°	117.2	60.2	50.9	47.8	47.8
85°	66.3	33.9	29.3	29.3	29.3
87.5°	24.7	12.3	12.3	10.8	10.8
90°	0.8	10.0	26.8	25.3	26.1
92.5°	16.9	23.0	23.8	24.5	24.5
95°	39.9	47.5	49.1	49.1	47.5
97.5°	66.7	73.6	76.7	76.7	76.7
100°	97.4	103.5	105.8	105.8	105.1
102.5°	129.6	134.2	137.3	138.0	137.3
105°	164.9	167.2	168.7	170.2	170.2
107.5°	200.1	203.2	203.2	204.0	200.1
110°	233.9	238.5	238.5	238.5	236.2

TEST NUMBER: P1009758

CATALOG NUMBER: S122RDIP-B1005D725UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	270.7	275.3	274.5	272.2	270.7
115°	306.7	311.3	309.8	309.0	306.7
117.5°	342.8	348.9	345.1	342.8	340.5
120°	378.8	384.9	378.8	378.8	376.5
122.5°	411.8	419.4	415.6	413.3	411.8
125°	446.3	453.2	450.9	448.6	447.8
127.5°	480.0	488.4	485.4	482.3	480.0
130°	511.5	521.4	519.9	518.4	515.3
132.5°	546.7	554.4	555.2	551.3	549.0
135°	577.4	585.8	587.4	586.6	584.3
137.5°	611.1	618.0	619.6	618.8	615.7
140°	641.0	647.9	651.8	651.8	648.7
142.5°	671.7	678.6	680.9	681.7	678.6
145°	700.8	706.2	710.8	711.6	708.5
147.5°	726.9	733.8	736.9	738.4	735.4
150°	753.8	758.4	761.4	763.7	761.4
152.5°	777.5	782.1	786.0	789.0	786.0
155°	801.3	803.6	805.9	809.7	807.4
157.5°	822.0	823.5	825.1	830.4	826.6
160°	840.4	841.9	842.7	847.3	844.2
162.5°	857.3	857.3	858.0	863.4	859.6
165°	871.8	871.1	871.1	876.4	872.6
167.5°	884.9	882.6	882.6	887.9	884.1
170°	894.8	892.5	891.8	897.1	892.5
172.5°	901.7	899.4	898.7	904.0	899.4
175°	907.1	904.8	903.3	908.7	904.0
177.5°	910.2	907.9	906.3	911.0	906.3
180°	908.7	908.7	908.7	908.7	908.7

(END OF REPORT)