

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: P999373

Luminaire Tested: SA2XXRDIP-B1005D530UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999373
REPORT IS A COMBINATION OF REPORTS P987924 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D530UB35-4F0-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

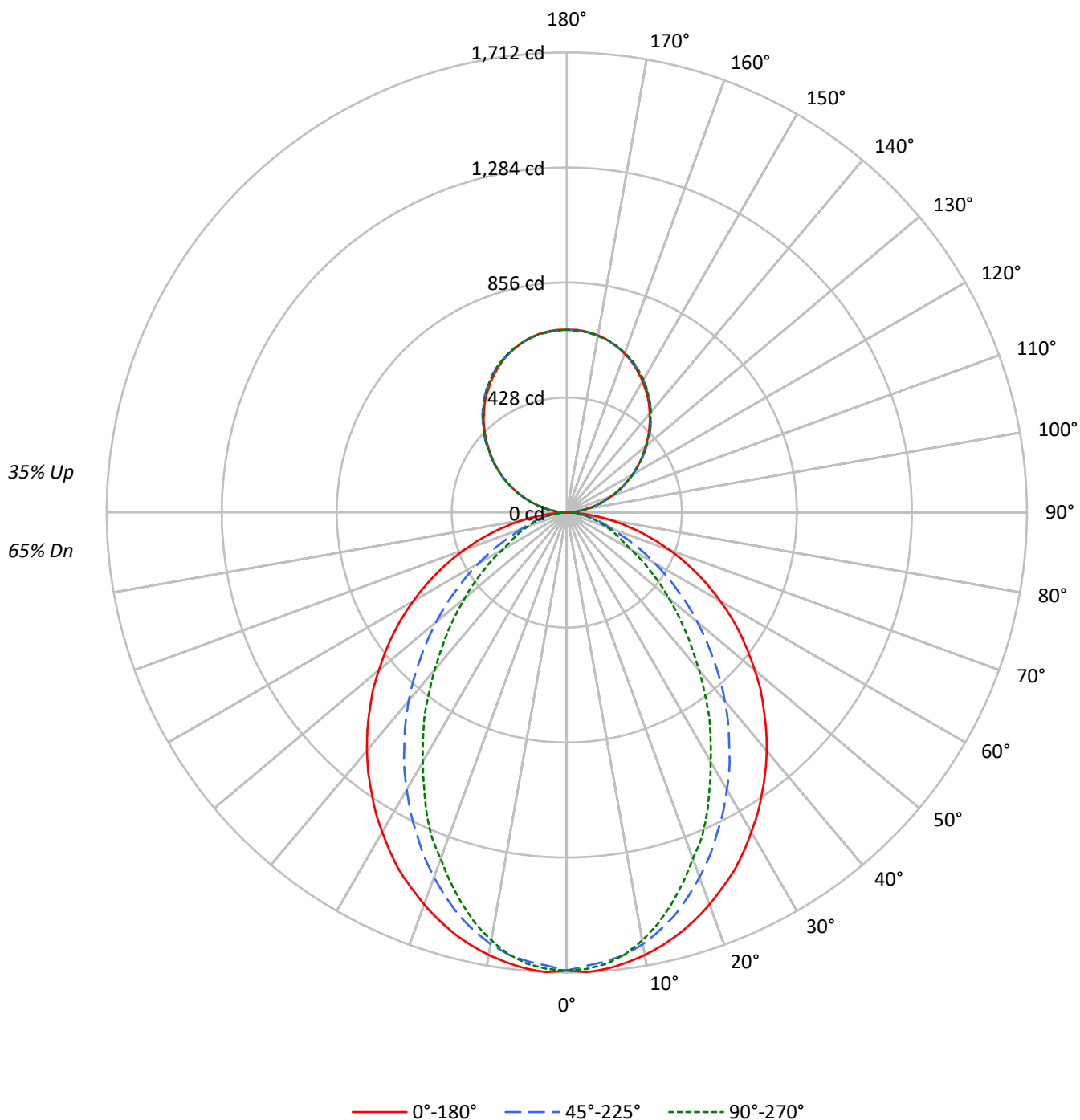
Lumens per Lamp: N/A
Luminaire Lumens: 5409.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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: P999373

CATALOG NUMBER: SA2XXRDIP-B1005D530UB35-4F0-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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	102	98	94	90	96	92	89	86	81	79	77	72	70	68	63	61	60
2	93	86	80	75	87	81	76	71	72	68	64	64	61	58	56	54	52
3	85	76	69	63	80	72	66	60	64	59	55	57	53	50	50	47	45
4	79	68	60	54	74	64	57	52	57	52	47	51	47	43	45	42	39
5	72	61	53	47	68	58	51	45	52	46	41	46	42	38	41	37	34
6	67	55	47	41	63	52	45	40	47	41	37	42	37	34	38	34	31
7	62	50	42	36	58	47	40	35	43	37	33	39	34	30	34	31	28
8	58	46	38	33	54	43	36	31	39	33	29	35	31	27	32	28	25
9	54	42	34	29	51	40	33	28	36	30	26	33	28	25	29	26	23
10	51	39	31	27	48	37	30	26	34	28	24	30	26	22	27	24	21

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: P999373

CATALOG NUMBER: SA2XXRDIP-B1005D530UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	3.0
10°-20°	438.6	8.1
20°-30°	615.8	11.4
30°-40°	671.2	12.4
40°-50°	616.9	11.4
50°-60°	484.5	9.0
60°-70°	315.4	5.8
70°-80°	162.4	3.0
80°-90°	43.4	0.8
90°-100°	42.1	0.8
100°-110°	133.7	2.5
110°-120°	228.8	4.2
120°-130°	300.9	5.6
130°-140°	337.8	6.2
140°-150°	331.2	6.1
150°-160°	277.9	5.1
160°-170°	184.3	3.4
170°-180°	64.4	1.2
0°-30°	1214.2	22.4
0°-40°	1885.4	34.9
0°-60°	2986.8	55.2
0°-90°	3507.9	64.9
90°-120°	404.6	7.5
90°-150°	1374.5	25.4
90°-180°	1901.0	35.1
0°-180°	5409.0	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	8	20	19	20	5
95°	30	36	37	37	36	33
105°	123	125	126	127	127	130
115°	230	233	232	231	230	227
125°	334	339	337	336	335	298
135°	432	438	440	439	437	334
145°	524	528	532	532	530	328
155°	600	601	603	606	604	276
165°	652	652	652	656	653	184
175°	679	677	676	680	676	64
180°	680	680	680	680	680	

TEST NUMBER: P999373

CATALOG NUMBER: SA2XXRDIP-B1005D530UB35-4F0-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°	0.6	7.5	20.1	18.9	19.5
92.5°	12.6	17.2	17.8	18.4	18.4
95°	29.8	35.6	36.7	36.7	35.6
97.5°	49.9	55.1	57.4	57.4	57.4
100°	72.9	77.5	79.2	79.2	78.6
102.5°	97.0	100.4	102.7	103.3	102.7
105°	123.4	125.1	126.2	127.4	127.4
107.5°	149.8	152.1	152.1	152.6	149.8
110°	175.0	178.5	178.5	178.5	176.7



TEST NUMBER: P999373

CATALOG NUMBER: SA2XXRDIP-B1005D530UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	202.6	206.0	205.4	203.7	202.6
115°	229.5	233.0	231.8	231.2	229.5
117.5°	256.5	261.1	258.2	256.5	254.8
120°	283.5	288.1	283.5	283.5	281.7
122.5°	308.1	313.9	311.0	309.3	308.1
125°	334.0	339.1	337.4	335.7	335.1
127.5°	359.2	365.5	363.2	360.9	359.2
130°	382.7	390.2	389.0	387.9	385.6
132.5°	409.1	414.9	415.4	412.6	410.9
135°	432.1	438.4	439.5	439.0	437.2
137.5°	457.3	462.5	463.6	463.1	460.8
140°	479.7	484.9	487.7	487.7	485.4
142.5°	502.7	507.8	509.5	510.1	507.8
145°	524.5	528.5	531.9	532.5	530.2
147.5°	544.0	549.1	551.4	552.6	550.3
150°	564.1	567.5	569.8	571.5	569.8
152.5°	581.8	585.3	588.2	590.5	588.2
155°	599.6	601.4	603.1	605.9	604.2
157.5°	615.1	616.3	617.4	621.4	618.6
160°	628.9	630.0	630.6	634.1	631.8
162.5°	641.5	641.5	642.1	646.1	643.2
165°	652.4	651.9	651.9	655.9	653.0
167.5°	662.2	660.5	660.5	664.5	661.6
170°	669.6	667.9	667.3	671.4	667.9
172.5°	674.8	673.1	672.5	676.5	673.1
175°	678.8	677.1	676.0	680.0	676.5
177.5°	681.1	679.4	678.2	681.7	678.2
180°	680.0	680.0	680.0	680.0	680.0

(END OF REPORT)