

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: P999374

Luminaire Tested: SA2XXRDIP-B1005D530UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999374
REPORT IS A COMBINATION OF REPORTS P987925 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-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

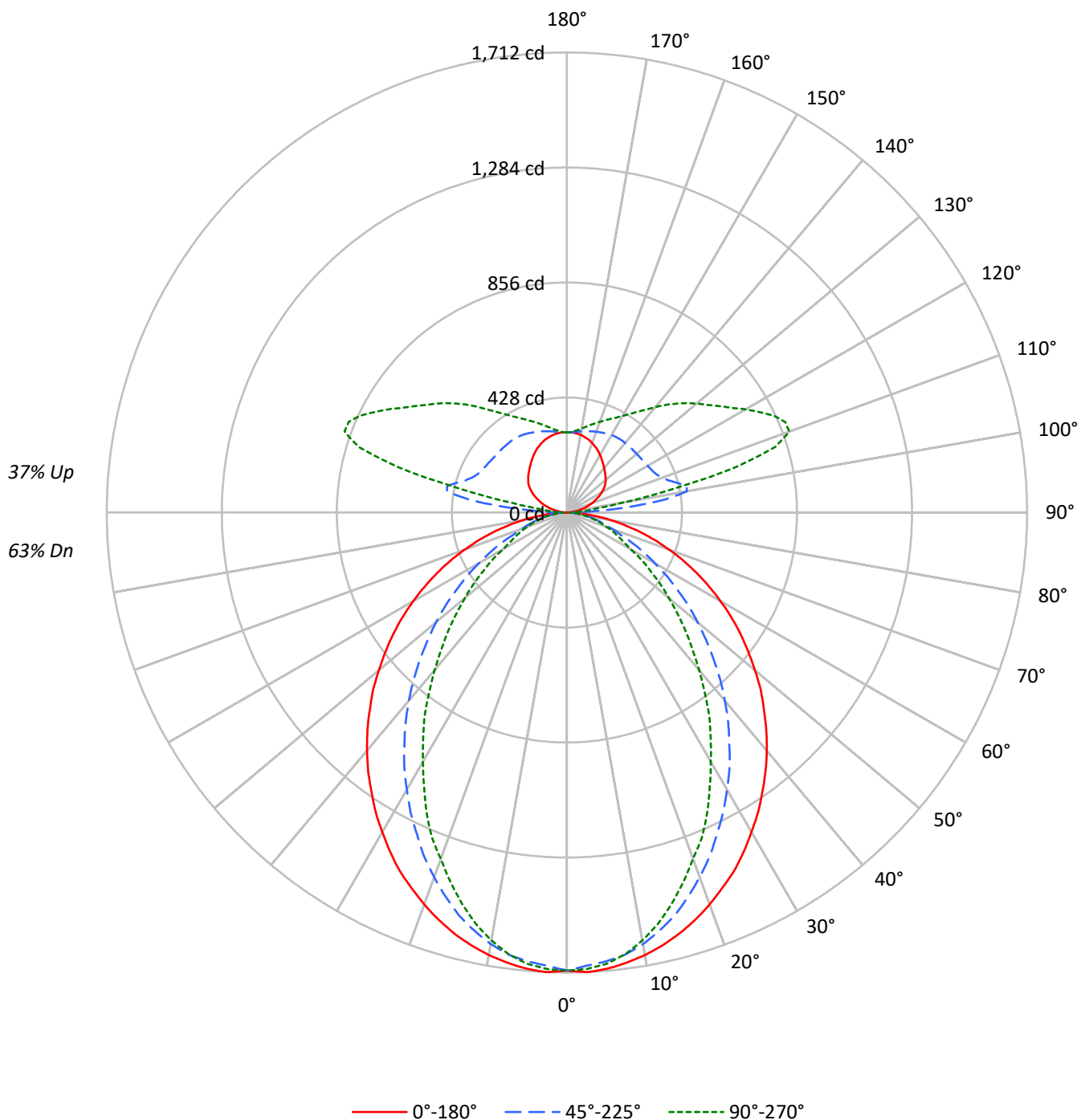
Lumens per Lamp: N/A
Luminaire Lumens: 5588.4 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	90	90	90	79	79	79	68	68	68
1	101	97	93	90	95	91	88	85	80	78	76	70	68	67	61	60	59
2	93	85	80	75	87	80	75	71	71	67	64	62	59	57	54	52	50
3	85	76	69	63	79	71	65	60	63	58	54	56	52	49	49	46	43
4	78	67	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38
5	72	61	53	47	67	57	50	45	51	45	41	45	41	37	40	36	34
6	67	55	47	41	62	52	45	39	46	40	36	41	37	33	36	33	30
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	33	30	27
8	57	45	38	32	54	43	36	31	39	33	29	35	30	26	31	27	24
9	54	42	34	29	50	40	33	28	36	30	26	32	27	24	29	25	22
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	27	23	20

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	2.9
10°-20°	438.6	7.8
20°-30°	615.8	11.0
30°-40°	671.2	12.0
40°-50°	616.9	11.0
50°-60°	484.5	8.7
60°-70°	315.4	5.6
70°-80°	162.4	2.9
80°-90°	43.4	0.8
90°-100°	121.0	2.2
100°-110°	409.0	7.3
110°-120°	429.9	7.7
120°-130°	353.5	6.3
130°-140°	284.1	5.1
140°-150°	214.6	3.8
150°-160°	150.9	2.7
160°-170°	88.8	1.6
170°-180°	28.9	0.5
0°-30°	1214.2	21.7
0°-40°	1885.4	33.7
0°-60°	2986.8	53.4
0°-90°	3507.9	62.8
90°-120°	959.8	17.2
90°-150°	1811.9	32.4
90°-180°	2080.0	37.2
0°-180°	5588.4	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	19	5
95°	20	49	225	85	65	21
105°	70	106	425	760	647	74
115°	123	156	356	734	851	122
125°	172	204	342	595	690	153
135°	202	241	338	500	572	156
145°	231	265	336	418	457	145
155°	262	283	326	369	384	121
165°	286	294	313	332	337	81
175°	298	298	301	304	304	28
180°	298	298	298	298	298	

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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	7.8	19.5	18.6	18.9
92.5°	8.6	27.2	88.4	40.7	35.0
95°	20.1	49.4	224.9	84.9	65.4
97.5°	29.8	65.2	366.7	170.4	109.6
100°	44.2	79.8	453.3	339.4	205.4
102.5°	57.4	93.0	456.2	573.9	400.5
105°	70.0	105.6	425.2	760.0	646.7
107.5°	83.8	118.2	396.5	827.5	812.6
110°	97.6	131.1	377.0	816.6	880.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.2	143.5	364.4	779.6	879.1
115°	123.4	155.8	355.8	734.2	851.0
117.5°	137.2	168.1	351.2	690.9	808.6
120°	149.8	180.2	347.2	652.2	767.8
122.5°	161.8	192.5	344.9	622.0	725.3
125°	172.2	203.8	342.0	594.8	690.3
127.5°	180.8	214.4	340.3	571.6	657.6
130°	188.2	223.8	339.1	548.0	630.7
132.5°	195.1	233.0	338.6	523.6	602.5
135°	202.0	241.0	338.0	499.8	572.1
137.5°	208.3	247.9	338.0	475.8	542.9
140°	215.8	254.2	337.4	454.5	512.4
142.5°	223.2	259.4	337.4	434.2	482.0
145°	230.7	265.1	336.3	417.5	456.8
147.5°	238.7	269.7	334.6	402.8	434.4
150°	246.8	274.3	332.8	390.2	414.9
152.5°	254.8	278.9	330.0	379.6	398.3
155°	262.2	283.2	326.5	369.2	383.9
157.5°	268.6	286.6	323.1	359.5	371.3
160°	274.9	290.0	319.6	349.8	359.2
162.5°	281.2	292.7	316.8	340.6	347.8
165°	285.8	294.4	312.7	331.6	336.9
167.5°	289.8	296.2	309.3	323.6	326.5
170°	293.8	297.0	306.4	316.2	317.3
172.5°	296.1	297.8	303.0	309.6	309.9
175°	297.8	298.1	300.7	304.4	303.6
177.5°	299.0	298.4	298.4	300.7	299.0
180°	298.4	298.4	298.4	298.4	298.4

(END OF REPORT)