

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: P999366

Luminaire Tested: SA2XXRDIP-B1005D530UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999366
REPORT IS A COMBINATION OF REPORTS P987917 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D530UB30-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

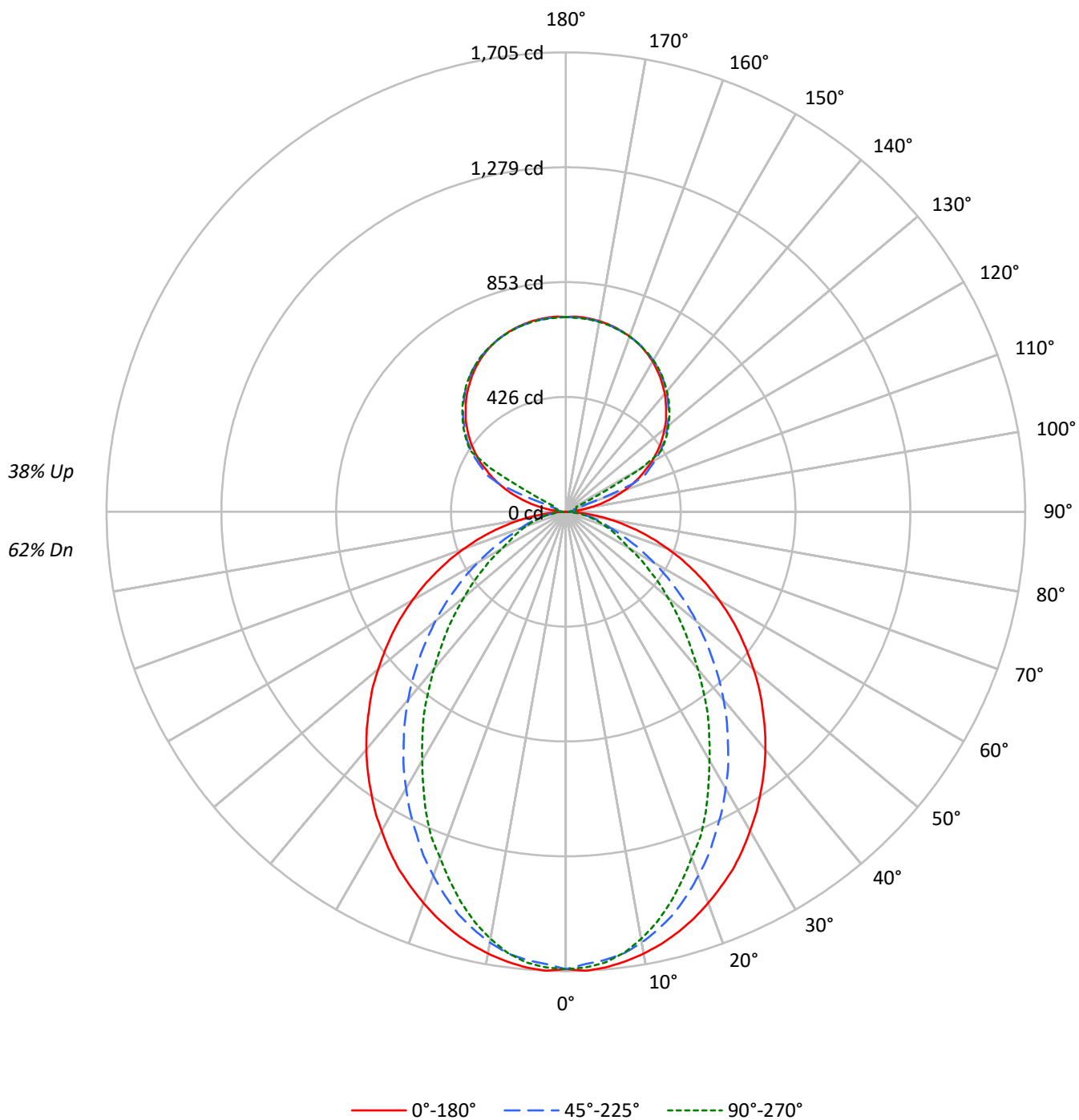
Lumens per Lamp: N/A
Luminaire Lumens: 5611.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	78	78	78	67	67	67
1	101	97	93	90	95	91	88	85	80	78	75	70	68	66	60	59	58
2	93	85	79	74	87	80	75	71	71	67	63	62	59	56	54	52	50
3	85	76	68	63	79	71	65	60	63	58	54	55	52	48	48	46	43
4	78	67	60	54	73	64	57	51	56	51	47	50	46	42	44	40	38
5	72	60	52	47	67	57	50	45	51	45	41	45	41	37	40	36	33
6	66	55	47	41	62	52	44	39	46	40	36	41	36	33	36	32	30
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	33	29	27
8	57	45	37	32	54	43	36	31	39	33	29	34	30	26	31	27	24
9	54	41	34	29	50	39	33	28	36	30	26	32	27	24	28	25	22
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	26	23	20

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	2.8
10°-20°	436.7	7.8
20°-30°	613.1	10.9
30°-40°	668.4	11.9
40°-50°	614.3	10.9
50°-60°	482.4	8.6
60°-70°	314.0	5.6
70°-80°	161.7	2.9
80°-90°	42.6	0.8
90°-100°	23.8	0.4
100°-110°	88.8	1.6
110°-120°	235.6	4.2
120°-130°	390.8	7.0
130°-140°	415.1	7.4
140°-150°	385.8	6.9
150°-160°	310.2	5.5
160°-170°	199.9	3.6
170°-180°	68.8	1.2
0°-30°	1209.0	21.5
0°-40°	1877.3	33.5
0°-60°	2974.0	53.0
0°-90°	3492.3	62.2
90°-120°	348.3	6.2
90°-150°	1539.9	27.4
90°-180°	2119.0	37.8
0°-180°	5611.0	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°	0	6	10	13	14	5
95°	34	17	20	23	22	40
105°	159	175	32	38	40	170
115°	301	310	323	80	43	296
125°	425	432	442	446	447	379
135°	526	534	539	544	543	406
145°	610	610	619	622	620	382
155°	672	667	674	677	672	310
165°	708	705	706	710	706	200
175°	724	721	722	725	720	69
180°	723	723	723	723	723	

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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°	0.5	6.3	10.5	13.1	14.1
92.5°	13.1	11.0	12.6	13.6	14.1
95°	34.0	16.7	20.4	23.0	22.5
97.5°	61.2	18.3	26.7	28.2	28.8
100°	92.6	20.9	29.8	34.0	35.0
102.5°	127.1	126.0	30.9	36.6	38.2
105°	159.0	174.7	31.9	37.7	39.7
107.5°	196.1	209.2	32.9	38.7	40.8
110°	231.7	242.6	91.5	39.2	41.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	265.1	274.5	265.7	40.3	41.8
115°	300.7	309.6	322.7	80.5	42.9
117.5°	331.5	342.0	350.9	276.1	139.1
120°	366.1	373.9	383.3	389.6	319.0
122.5°	395.3	403.7	414.2	417.3	417.8
125°	425.2	432.0	441.9	445.5	447.1
127.5°	452.3	459.7	467.5	472.7	473.3
130°	478.0	486.3	492.1	497.8	497.3
132.5°	504.1	510.9	516.7	521.4	520.9
135°	526.1	534.4	539.2	544.4	543.3
137.5°	549.1	555.4	560.6	565.8	564.3
140°	571.6	575.8	581.5	586.2	583.6
142.5°	590.4	594.1	600.9	605.0	602.4
145°	610.3	609.8	618.6	622.3	619.7
147.5°	627.5	626.0	634.9	637.5	635.4
150°	644.3	640.6	649.0	652.1	649.5
152.5°	658.4	654.2	662.0	665.2	661.5
155°	672.0	667.3	673.6	676.7	672.5
157.5°	683.0	678.8	683.5	687.1	683.0
160°	692.4	689.2	692.4	695.5	691.9
162.5°	700.7	697.6	700.2	703.9	699.2
165°	708.1	704.9	706.5	710.2	706.5
167.5°	713.8	710.7	712.2	715.9	711.2
170°	718.5	715.4	716.4	720.1	715.4
172.5°	721.7	718.5	719.6	723.2	718.5
175°	724.3	720.6	721.7	725.3	720.1
177.5°	725.3	721.7	722.2	725.8	721.1
180°	722.7	722.7	722.7	722.7	722.7

(END OF REPORT)