

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: P999281

Luminaire Tested: SA2XXRDIP-B1005D1080UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999281
REPORT IS A COMBINATION OF REPORTS P987830 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D1080UB2750-4F0-XX-W2A-F_3000K
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

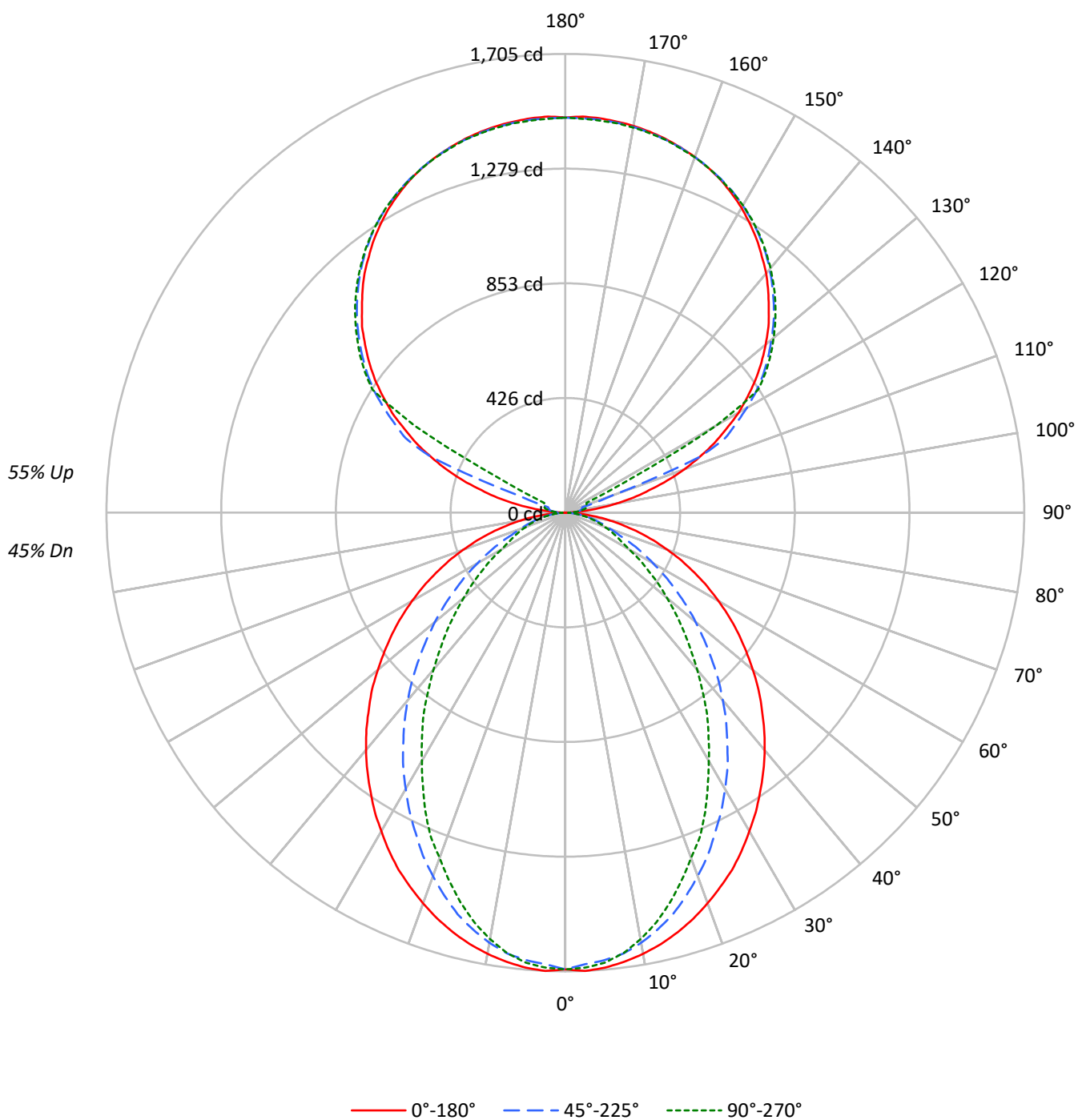
Lumens per Lamp: N/A
Luminaire Lumens: 7798.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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: P999281

CATALOG NUMBER: SA2XXRDIP-B1005D1080UB2750-4F0-XX-W2A-F_3000K

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	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51			45
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44			39
2	89	82	76	71	81	75	70	66	63	59	56	52	49	47	41	39	38			33
3	81	72	65	60	74	66	60	55	56	51	48	46	43	40	37	35	33			28
4	74	64	56	51	68	59	53	47	50	45	41	41	38	35	33	31	29			25
5	68	57	49	44	63	53	46	41	45	40	36	37	33	30	30	27	25			22
6	63	52	44	38	58	48	41	36	40	35	31	34	30	27	27	25	22			19
7	59	47	39	34	54	43	36	32	37	32	28	31	27	24	25	22	20			17
8	54	42	35	30	50	39	33	28	34	28	25	28	24	21	23	20	18			16
9	51	39	31	27	46	36	30	25	31	26	22	26	22	19	21	19	16			14
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15			13

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: P999281

CATALOG NUMBER: SA2XXRDIP-B1005D1080UB2750-4F0-XX-W2A-F_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	2.0
10°-20°	436.7	5.6
20°-30°	613.1	7.9
30°-40°	668.4	8.6
40°-50°	614.3	7.9
50°-60°	482.4	6.2
60°-70°	314.0	4.0
70°-80°	161.7	2.1
80°-90°	43.9	0.6
90°-100°	48.4	0.6
100°-110°	180.5	2.3
110°-120°	478.7	6.1
120°-130°	793.9	10.2
130°-140°	843.3	10.8
140°-150°	783.8	10.1
150°-160°	630.1	8.1
160°-170°	406.0	5.2
170°-180°	139.7	1.8
0°-30°	1209.0	15.5
0°-40°	1877.3	24.1
0°-60°	2974.0	38.1
0°-90°	3493.6	44.8
90°-120°	707.6	9.1
90°-150°	3128.5	40.1
90°-180°	4304.0	55.2
0°-180°	7798.0	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	13	21	27	29	7
95°	69	34	41	47	46	82
105°	323	355	65	76	81	345
115°	611	629	656	164	87	601
125°	864	878	898	905	908	770
135°	1069	1086	1095	1106	1104	826
145°	1240	1239	1257	1264	1259	775
155°	1365	1356	1368	1375	1366	629
165°	1438	1432	1435	1443	1435	406
175°	1471	1464	1466	1474	1463	140
180°	1468	1468	1468	1468	1468	

TEST NUMBER: P999281

CATALOG NUMBER: SA2XXRDIP-B1005D1080UB2750-4F0-XX-W2A-F_3000K

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°	1.1	12.7	21.2	26.6	28.7
92.5°	26.6	22.3	25.5	27.6	28.7
95°	69.1	34.0	41.4	46.7	45.7
97.5°	124.3	37.2	54.2	57.4	58.4
100°	188.0	42.5	60.6	69.1	71.2
102.5°	258.2	256.0	62.7	74.4	77.6
105°	323.0	354.8	64.8	76.5	80.7
107.5°	398.4	425.0	66.9	78.6	82.9
110°	470.6	493.0	185.9	79.7	83.9



TEST NUMBER: P999281

CATALOG NUMBER: SA2XXRDIP-B1005D1080UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	538.6	557.8	539.7	81.8	85.0
115°	610.9	628.9	655.5	163.6	87.1
117.5°	673.6	694.8	712.9	561.0	282.6
120°	743.7	759.6	778.8	791.5	648.1
122.5°	803.2	820.2	841.4	847.8	848.9
125°	863.7	877.6	897.7	905.2	908.4
127.5°	919.0	933.9	949.8	960.4	961.5
130°	971.0	988.0	999.7	1011.4	1010.4
132.5°	1024.2	1038.0	1049.7	1059.2	1058.2
135°	1068.8	1085.8	1095.3	1106.0	1103.8
137.5°	1115.5	1128.3	1138.9	1149.5	1146.3
140°	1161.2	1169.7	1181.4	1191.0	1185.7
142.5°	1199.5	1206.9	1220.7	1229.2	1223.9
145°	1239.8	1238.8	1256.8	1264.3	1259.0
147.5°	1274.9	1271.7	1289.8	1295.1	1290.8
150°	1308.9	1301.5	1318.5	1324.8	1319.5
152.5°	1337.6	1329.1	1345.0	1351.4	1344.0
155°	1365.2	1355.6	1368.4	1374.8	1366.3
157.5°	1387.5	1379.0	1388.6	1396.0	1387.5
160°	1406.6	1400.3	1406.6	1413.0	1405.6
162.5°	1423.6	1417.3	1422.6	1430.0	1420.4
165°	1438.5	1432.1	1435.3	1442.8	1435.3
167.5°	1450.2	1443.8	1447.0	1454.4	1444.9
170°	1459.8	1453.4	1455.5	1462.9	1453.4
172.5°	1466.1	1459.8	1461.9	1469.3	1459.8
175°	1471.4	1464.0	1466.1	1473.6	1462.9
177.5°	1473.6	1466.1	1467.2	1474.6	1465.1
180°	1468.3	1468.3	1468.3	1468.3	1468.3

(END OF REPORT)