

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: P999446

Luminaire Tested: SA2XXRDIP-B1005D925UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999446
REPORT IS A COMBINATION OF REPORTS P987997 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D925UB30-4F0-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

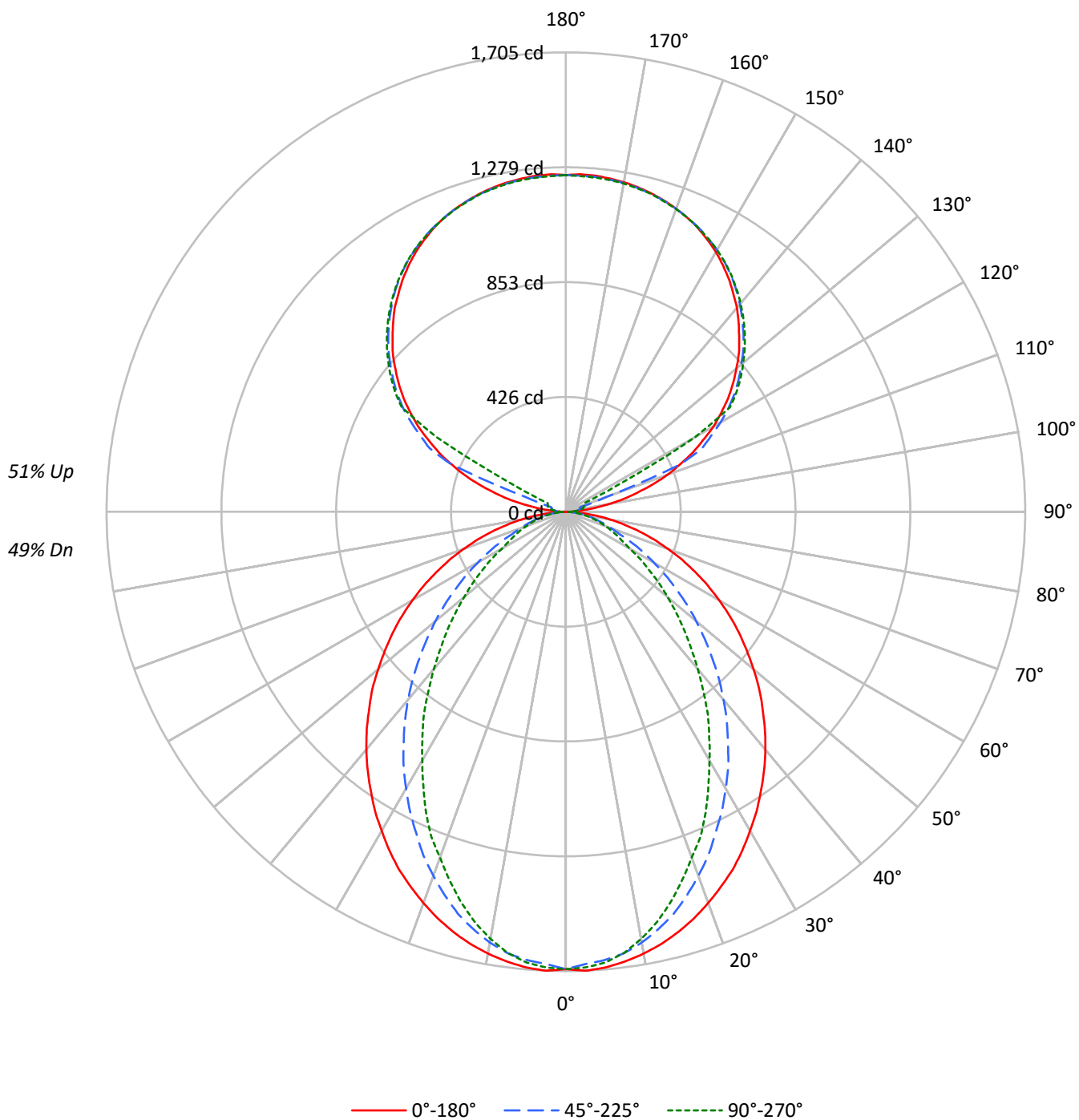
Lumens per Lamp: N/A
Luminaire Lumens: 7156.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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: P999446

CATALOG NUMBER: SA2XXRDIP-B1005D925UB30-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P999446

CATALOG NUMBER: SA2XXRDIP-B1005D925UB30-4F0-XX-W2A-F

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49		
1	98	94	90	87	90	87	83	81	73	71	69	61	59	58	49	48	47	42		
2	90	82	77	72	82	76	71	67	65	61	58	54	51	49	44	42	41	36		
3	82	73	66	60	75	68	61	56	57	53	49	48	45	42	39	37	35	31		
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27		
5	69	58	50	44	64	54	47	42	46	41	37	39	35	32	32	29	27	24		
6	64	52	44	39	59	49	42	37	42	36	32	35	31	28	29	26	24	21		
7	59	47	40	34	55	44	37	32	38	33	29	32	28	25	27	24	22	19		
8	55	43	35	30	51	40	33	29	35	29	26	30	26	22	25	22	19	17		
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	23	20	18	16		
10	48	36	29	24	44	34	28	23	30	24	21	25	21	18	21	18	16	14		

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: P999446

CATALOG NUMBER: SA2XXRDIP-B1005D925UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	2.2
10°-20°	436.7	6.1
20°-30°	613.1	8.6
30°-40°	668.4	9.3
40°-50°	614.3	8.6
50°-60°	482.4	6.7
60°-70°	314.0	4.4
70°-80°	161.7	2.3
80°-90°	43.5	0.6
90°-100°	41.2	0.6
100°-110°	153.6	2.1
110°-120°	407.3	5.7
120°-130°	675.6	9.4
130°-140°	717.6	10.0
140°-150°	666.9	9.3
150°-160°	536.2	7.5
160°-170°	345.5	4.8
170°-180°	118.9	1.7
0°-30°	1209.0	16.9
0°-40°	1877.3	26.2
0°-60°	2974.0	41.6
0°-90°	3493.2	48.8
90°-120°	602.1	8.4
90°-150°	2662.2	37.2
90°-180°	3663.0	51.2
0°-180°	7156.0	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	11	18	23	24	7
95°	59	29	35	40	39	70
105°	275	302	55	65	69	294
115°	520	535	558	139	74	512
125°	735	747	764	770	773	656
135°	910	924	932	941	939	703
145°	1055	1054	1070	1076	1071	660
155°	1162	1154	1164	1170	1163	535
165°	1224	1219	1221	1228	1221	346
175°	1252	1246	1248	1254	1245	119
180°	1249	1249	1249	1249	1249	

TEST NUMBER: P999446

CATALOG NUMBER: SA2XXRDIP-B1005D925UB30-4F0-XX-W2A-F

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°	0.9	10.8	18.1	22.6	24.4
92.5°	22.6	19.0	21.7	23.5	24.4
95°	58.8	28.9	35.3	39.8	38.9
97.5°	105.8	31.6	46.1	48.8	49.7
100°	160.0	36.2	51.5	58.8	60.6
102.5°	219.7	217.9	53.3	63.3	66.0
105°	274.8	302.0	55.1	65.1	68.7
107.5°	339.0	361.6	57.0	66.9	70.5
110°	400.5	419.5	158.2	67.8	71.4



TEST NUMBER: P999446

CATALOG NUMBER: SA2XXRDIP-B1005D925UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	458.4	474.6	459.3	69.6	72.3
115°	519.8	535.2	557.8	139.2	74.1
117.5°	573.2	591.2	606.6	477.3	240.5
120°	632.8	646.4	662.7	673.5	551.5
122.5°	683.5	697.9	716.0	721.4	722.3
125°	735.0	746.7	763.9	770.3	773.0
127.5°	782.0	794.7	808.2	817.3	818.2
130°	826.3	840.8	850.7	860.7	859.8
132.5°	871.5	883.3	893.2	901.3	900.4
135°	909.5	923.9	932.1	941.1	939.3
137.5°	949.3	960.1	969.1	978.2	975.5
140°	988.1	995.4	1005.3	1013.4	1008.9
142.5°	1020.7	1027.0	1038.8	1046.0	1041.5
145°	1055.0	1054.1	1069.5	1075.8	1071.3
147.5°	1084.9	1082.2	1097.5	1102.0	1098.4
150°	1113.8	1107.5	1121.9	1127.4	1122.8
152.5°	1138.2	1131.0	1144.5	1150.0	1143.6
155°	1161.7	1153.6	1164.4	1169.8	1162.6
157.5°	1180.7	1173.5	1181.6	1187.9	1180.7
160°	1197.0	1191.5	1197.0	1202.4	1196.1
162.5°	1211.4	1206.0	1210.5	1216.9	1208.7
165°	1224.1	1218.7	1221.4	1227.7	1221.4
167.5°	1234.0	1228.6	1231.3	1237.6	1229.5
170°	1242.2	1236.7	1238.6	1244.9	1236.7
172.5°	1247.6	1242.2	1244.0	1250.3	1242.2
175°	1252.1	1245.8	1247.6	1253.9	1244.9
177.5°	1253.9	1247.6	1248.5	1254.8	1246.7
180°	1249.4	1249.4	1249.4	1249.4	1249.4

(END OF REPORT)