

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: P999406

Luminaire Tested: SA2XXRDIP-B1005D725UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999406
REPORT IS A COMBINATION OF REPORTS P987957 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D725UB30-4F0-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

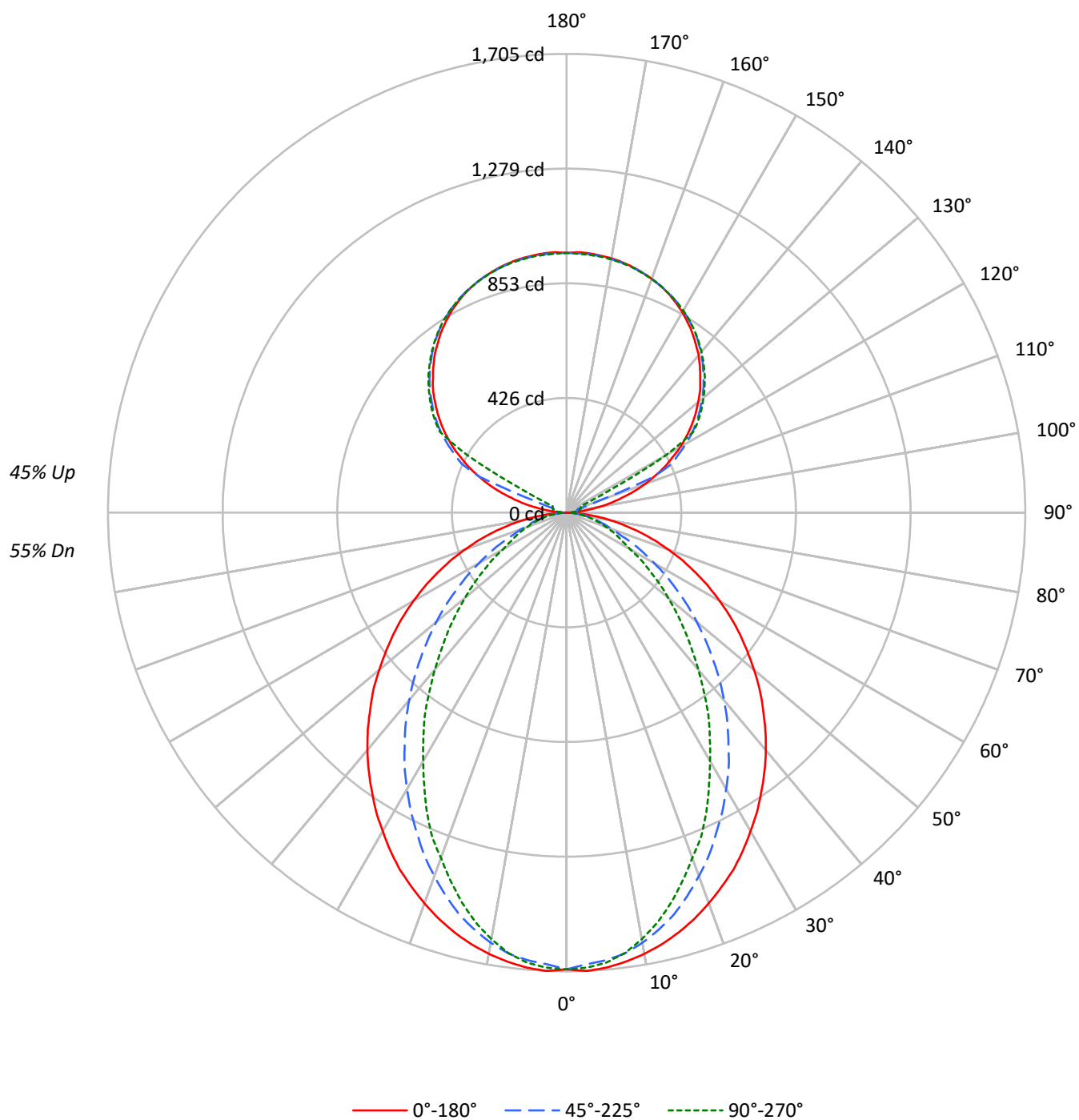
Lumens per Lamp: N/A
Luminaire Lumens: 6323.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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: P999406

CATALOG NUMBER: SA2XXRDIP-B1005D725UB30-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P999406

CATALOG NUMBER: SA2XXRDIP-B1005D725UB30-4F0-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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55	55	55
1	99	95	92	88	92	89	86	83	76	74	72	65	63	62	55	54	53	48	48	48
2	91	84	78	73	84	78	73	69	68	64	60	58	55	53	49	47	45	41	41	41
3	83	74	67	61	77	69	63	58	60	55	51	52	48	45	44	41	39	35	35	35
4	77	66	58	52	71	62	55	50	54	49	44	46	42	39	39	36	34	31	31	31
5	71	59	51	45	65	55	48	43	48	43	39	42	38	34	36	33	30	27	27	27
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27	24	24	24
7	60	48	41	35	56	45	38	33	40	34	30	35	30	27	30	27	24	21	21	21
8	56	44	36	31	52	41	35	30	37	31	27	32	28	24	28	24	22	19	19	19
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	22	20	18	18	18
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18	16	16	16

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: P999406

CATALOG NUMBER: SA2XXRDIP-B1005D725UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	2.5
10°-20°	436.7	6.9
20°-30°	613.1	9.7
30°-40°	668.4	10.6
40°-50°	614.3	9.7
50°-60°	482.4	7.6
60°-70°	314.0	5.0
70°-80°	161.7	2.6
80°-90°	43.0	0.7
90°-100°	31.8	0.5
100°-110°	118.7	1.9
110°-120°	314.7	5.0
120°-130°	522.0	8.3
130°-140°	554.5	8.8
140°-150°	515.4	8.2
150°-160°	414.3	6.6
160°-170°	267.0	4.2
170°-180°	91.9	1.5
0°-30°	1209.0	19.1
0°-40°	1877.3	29.7
0°-60°	2974.0	47.0
0°-90°	3492.7	55.2
90°-120°	465.3	7.4
90°-150°	2057.1	32.5
90°-180°	2830.0	44.8
0°-180°	6323.0	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	8	14	18	19	6
95°	45	22	27	31	30	54
105°	212	233	43	50	53	227
115°	402	414	431	108	57	395
125°	568	577	590	595	597	507
135°	703	714	720	727	726	543
145°	815	814	826	831	828	510
155°	898	891	900	904	898	414
165°	946	942	944	949	944	267
175°	968	963	964	969	962	92
180°	965	965	965	965	965	

TEST NUMBER: P999406

CATALOG NUMBER: SA2XXRDIP-B1005D725UB30-4F0-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°	0.7	8.4	14.0	17.5	18.9
92.5°	17.5	14.7	16.8	18.2	18.9
95°	45.4	22.4	27.2	30.7	30.0
97.5°	81.7	24.5	35.6	37.7	38.4
100°	123.6	27.9	39.8	45.4	46.8
102.5°	169.8	168.4	41.2	48.9	51.0
105°	212.4	233.3	42.6	50.3	53.1
107.5°	262.0	279.4	44.0	51.7	54.5
110°	309.5	324.1	122.3	52.4	55.2

TEST NUMBER: P999406

CATALOG NUMBER: SA2XXRDIP-B1005D725UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	354.2	366.8	354.9	53.8	55.9
115°	401.7	413.6	431.0	107.6	57.3
117.5°	442.9	456.9	468.7	368.8	185.8
120°	489.0	499.5	512.1	520.4	426.1
122.5°	528.1	539.3	553.3	557.5	558.2
125°	567.9	577.0	590.3	595.2	597.3
127.5°	604.3	614.0	624.5	631.5	632.2
130°	638.5	649.7	657.4	665.0	664.3
132.5°	673.4	682.5	690.2	696.5	695.8
135°	702.8	713.9	720.2	727.2	725.8
137.5°	733.5	741.9	748.9	755.9	753.8
140°	763.5	769.1	776.8	783.1	779.6
142.5°	788.7	793.6	802.7	808.3	804.8
145°	815.2	814.5	826.4	831.3	827.8
147.5°	838.3	836.2	848.1	851.6	848.8
150°	860.6	855.8	866.9	871.1	867.6
152.5°	879.5	873.9	884.4	888.6	883.7
155°	897.7	891.4	899.8	904.0	898.4
157.5°	912.3	906.7	913.0	917.9	912.3
160°	924.9	920.7	924.9	929.1	924.2
162.5°	936.1	931.9	935.4	940.3	934.0
165°	945.9	941.7	943.8	948.7	943.8
167.5°	953.6	949.4	951.5	956.3	950.1
170°	959.8	955.6	957.0	961.9	955.6
172.5°	964.0	959.8	961.2	966.1	959.8
175°	967.5	962.6	964.0	968.9	961.9
177.5°	968.9	964.0	964.7	969.6	963.3
180°	965.4	965.4	965.4	965.4	965.4

(END OF REPORT)