

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: P999431

Luminaire Tested: SA2XXRDIP-B1005D925UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999431
REPORT IS A COMBINATION OF REPORTS P987982 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D925UB27-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

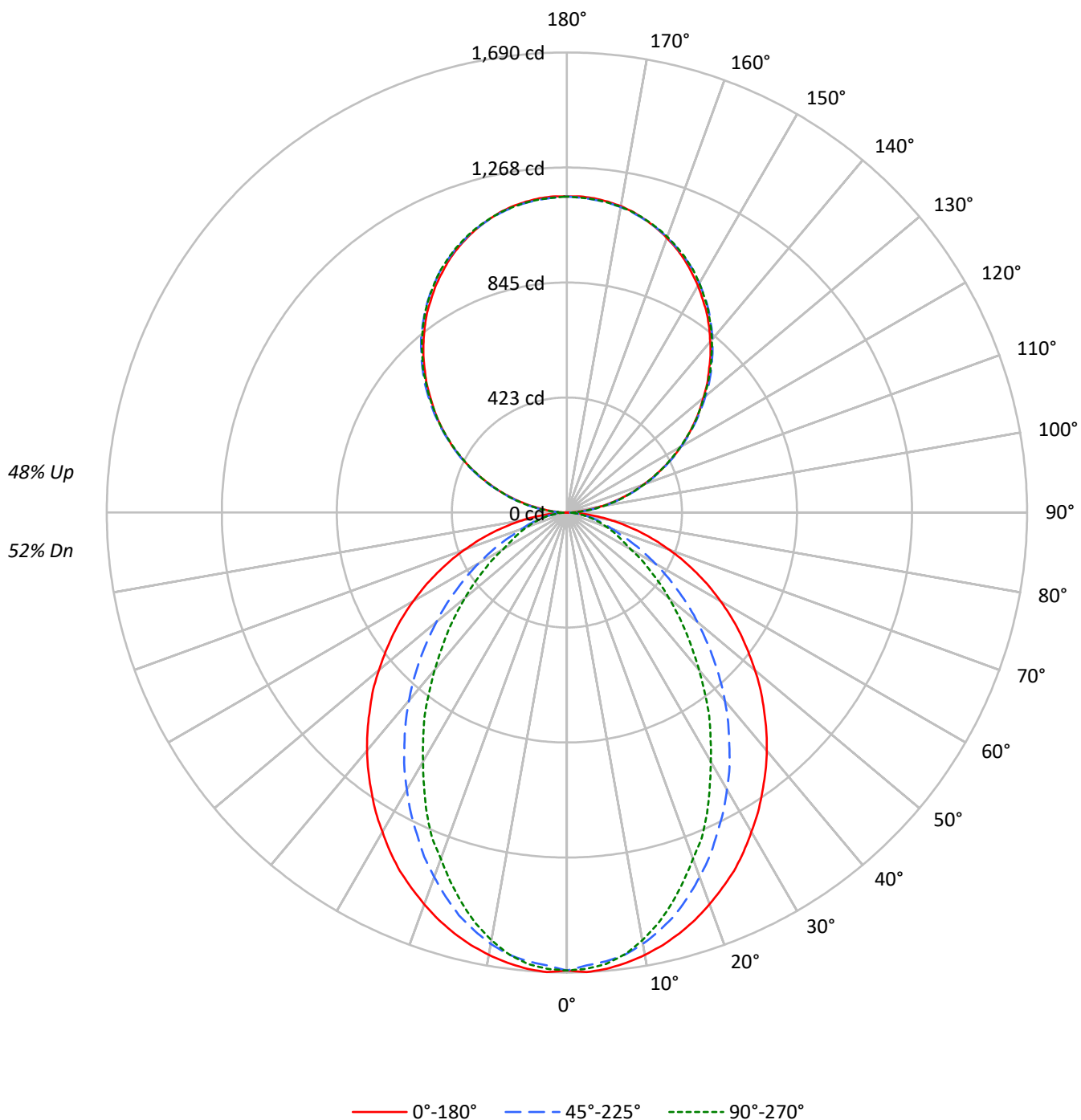
Lumens per Lamp: N/A
Luminaire Lumens: 6708.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P999431

CATALOG NUMBER: SA2XXRDIP-B1005D925UB27-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P999431

CATALOG NUMBER: SA2XXRDIP-B1005D925UB27-4F0-XX-W2A-F1

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	99	99	99	99	84	84	84	70	70	70	58	58	58	58	58	52
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	50	50	44
2	90	83	77	72	83	77	72	68	66	62	59	56	53	51	46	44	43	43	43	38
3	83	73	66	61	76	68	62	57	59	54	50	50	46	43	41	39	37	37	37	33
4	76	65	58	52	70	61	54	49	52	47	43	45	41	38	37	34	32	32	32	29
5	70	59	51	45	64	55	48	42	47	42	38	40	36	33	34	31	28	28	28	25
6	64	53	45	39	60	49	42	37	43	37	33	37	32	29	31	28	25	25	25	22
7	60	48	40	35	55	45	38	33	39	33	29	33	29	26	28	25	23	23	23	20
8	56	43	36	31	51	41	34	29	36	30	26	31	26	23	26	23	20	20	20	18
9	52	40	32	28	48	37	31	26	33	27	24	28	24	21	24	21	19	19	19	16
10	48	37	30	25	45	34	28	24	30	25	21	26	22	19	23	19	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26631	26631	26631
5°	26675	25336	25148
10°	26411	24030	23237
15°	26047	22487	21058
20°	25567	20734	18779
25°	25077	18934	16694
30°	24414	17182	14417
35°	23768	15415	12462
40°	23111	13678	10448
45°	22344	11888	8691
50°	21553	10159	7075
55°	20731	8433	5617
60°	19773	6744	4250
65°	18674	5141	3455
70°	17340	3730	2747
75°	15669	2845	2098
80°	13253	1926	1409
85°	9252	881	680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22344 cd/sqm

TEST NUMBER: P999431

CATALOG NUMBER: SA2XXRDIP-B1005D925UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	2.4
10°-20°	432.8	6.5
20°-30°	607.7	9.1
30°-40°	662.4	9.9
40°-50°	608.8	9.1
50°-60°	478.1	7.1
60°-70°	311.2	4.6
70°-80°	160.2	2.4
80°-90°	44.2	0.7
90°-100°	71.8	1.1
100°-110°	228.2	3.4
110°-120°	390.5	5.8
120°-130°	513.6	7.7
130°-140°	576.5	8.6
140°-150°	565.4	8.4
150°-160°	474.2	7.1
160°-170°	314.5	4.7
170°-180°	109.9	1.6
0°-30°	1198.2	17.9
0°-40°	1860.7	27.7
0°-60°	2947.6	43.9
0°-90°	3463.3	51.6
90°-120°	690.5	10.3
90°-150°	2346.0	35.0
90°-180°	3245.0	48.4
0°-180°	6708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1682	1675	1655	1669	1664	160
15°	1600	1583	1532	1503	1488	451
25°	1452	1404	1303	1241	1218	668
35°	1252	1174	1040	944	910	783
45°	1023	921	761	653	617	790
55°	778	659	495	404	374	695
65°	525	402	265	213	209	521
75°	280	174	122	111	110	296
85°	66	34	29	29	29	75
90°	1	13	34	32	33	7
95°	51	61	63	63	61	57
105°	211	214	216	217	217	222
115°	392	398	396	395	392	388
125°	570	579	576	573	572	509
135°	738	748	750	749	746	570
145°	895	902	908	909	905	559
155°	1023	1026	1029	1034	1031	471
165°	1114	1113	1113	1119	1114	314
175°	1159	1156	1154	1161	1155	110
180°	1161	1161	1161	1161	1161	

TEST NUMBER: P999431

CATALOG NUMBER: SA2XXRDIP-B1005D925UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1682.4	1682.4	1682.4	1682.4	1682.4
2.5°	1690.0	1682.4	1665.6	1680.8	1677.8
5°	1682.4	1674.8	1655.0	1668.7	1664.1
7.5°	1668.7	1659.5	1638.2	1644.3	1636.7
10°	1650.4	1639.7	1609.3	1604.7	1595.6
12.5°	1627.6	1613.9	1572.7	1563.6	1546.9
15°	1600.1	1583.4	1531.6	1502.7	1487.5
17.5°	1568.2	1543.8	1479.9	1446.4	1422.0
20°	1531.6	1501.2	1425.1	1387.0	1353.5
22.5°	1492.1	1457.0	1368.7	1317.0	1294.1
25°	1452.5	1403.7	1303.3	1240.8	1218.0
27.5°	1405.3	1353.5	1242.4	1170.8	1135.8
30°	1355.0	1297.2	1175.4	1097.7	1056.6
32.5°	1306.3	1236.3	1111.4	1020.1	982.0
35°	1251.5	1173.8	1039.9	944.0	910.5
37.5°	1198.2	1114.5	972.9	867.8	829.8
40°	1141.9	1050.5	902.8	794.7	755.2
42.5°	1084.0	986.6	832.8	720.1	682.1
45°	1023.1	921.1	761.3	653.2	616.6
47.5°	965.3	857.2	692.7	584.6	551.1
50°	901.3	793.2	625.7	520.7	488.7
52.5°	838.9	724.7	561.8	461.3	432.4
55°	778.0	659.2	494.8	403.5	374.5
57.5°	715.6	593.8	435.4	350.2	325.8
60°	651.6	529.8	373.0	295.4	271.0
62.5°	589.2	467.4	319.7	246.6	234.5
65°	525.3	401.9	264.9	213.2	208.6
67.5°	464.4	341.0	213.2	187.3	182.7
70°	400.4	281.7	176.6	161.4	155.3
72.5°	339.5	226.9	147.7	135.5	132.5
75°	280.1	173.6	121.8	111.1	109.6
77.5°	220.8	123.3	95.9	89.8	86.8
80°	166.0	88.3	73.1	67.0	67.0
82.5°	115.7	59.4	50.2	47.2	47.2
85°	65.5	33.5	28.9	28.9	28.9
87.5°	24.4	12.2	12.2	10.7	10.7
90°	1.0	12.7	34.3	32.3	33.3
92.5°	21.5	29.4	30.4	31.3	31.3
95°	50.9	60.7	62.7	62.7	60.7
97.5°	85.2	94.0	97.9	97.9	97.9
100°	124.4	132.2	135.2	135.2	134.2
102.5°	165.5	171.4	175.3	176.3	175.3
105°	210.6	213.5	215.5	217.4	217.4
107.5°	255.6	259.5	259.5	260.5	255.6
110°	298.7	304.6	304.6	304.6	301.6

TEST NUMBER: P999431

CATALOG NUMBER: SA2XXRDIP-B1005D925UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	345.7	351.6	350.6	347.7	345.7
115°	391.7	397.6	395.7	394.7	391.7
117.5°	437.8	445.6	440.7	437.8	434.8
120°	483.8	491.6	483.8	483.8	480.9
122.5°	525.9	535.7	530.8	527.9	525.9
125°	570.0	578.8	575.9	572.9	572.0
127.5°	613.1	623.9	619.9	616.0	613.1
130°	653.2	666.0	664.0	662.1	658.1
132.5°	698.3	708.1	709.1	704.2	701.2
135°	737.5	748.2	750.2	749.2	746.3
137.5°	780.6	789.4	791.3	790.4	786.4
140°	818.8	827.6	832.5	832.5	828.5
142.5°	857.9	866.7	869.7	870.7	866.7
145°	895.1	902.0	907.9	908.9	904.9
147.5°	928.4	937.3	941.2	943.1	939.2
150°	962.7	968.6	972.5	975.5	972.5
152.5°	993.1	999.0	1003.9	1007.8	1003.9
155°	1023.4	1026.4	1029.3	1034.2	1031.3
157.5°	1049.9	1051.8	1053.8	1060.7	1055.8
160°	1073.4	1075.4	1076.3	1082.2	1078.3
162.5°	1094.9	1094.9	1095.9	1102.8	1097.9
165°	1113.5	1112.6	1112.6	1119.4	1114.5
167.5°	1130.2	1127.3	1127.3	1134.1	1129.2
170°	1142.9	1140.0	1139.0	1145.9	1140.0
172.5°	1151.7	1148.8	1147.8	1154.7	1148.8
175°	1158.6	1155.7	1153.7	1160.6	1154.7
177.5°	1162.5	1159.6	1157.6	1163.5	1157.6
180°	1160.6	1160.6	1160.6	1160.6	1160.6

(END OF REPORT)