

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: P1009674

Luminaire Tested: S122RDIP-B1005D1080UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009674
REPORT IS A COMBINATION OF REPORTS P987850 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B1005D1080UB40-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

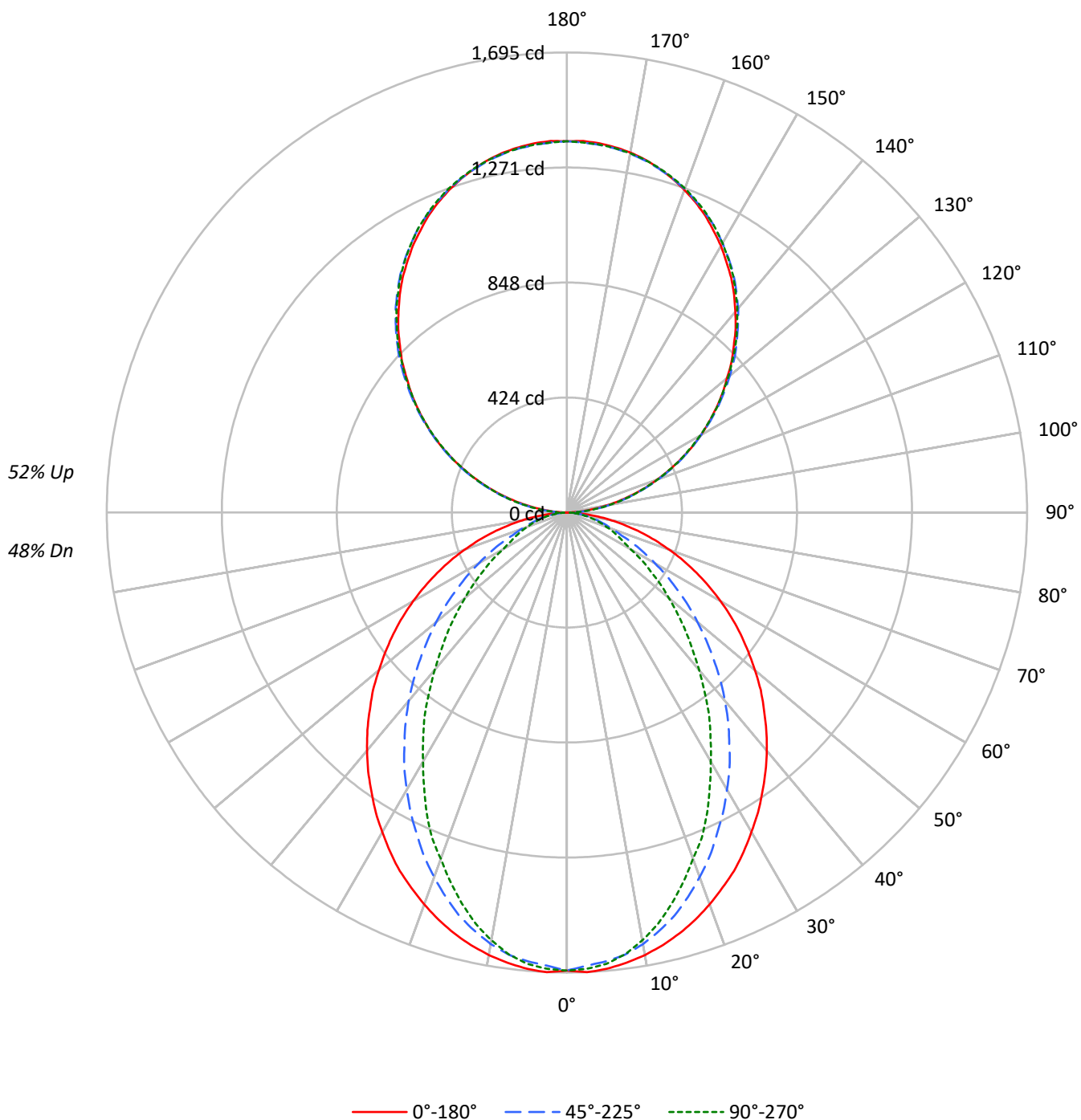
Lumens per Lamp: N/A
Luminaire Lumens: 7299.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1009674

CATALOG NUMBER: S122RDIP-B1005D1080UB40-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1009674

CATALOG NUMBER: S122RDIP-B1005D1080UB40-4F0-XX-W2A-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48	48	48	48
1	98	94	90	87	90	86	83	80	73	70	68	60	58	57	48	47	46	41	40	39	41
2	89	82	76	71	82	76	71	67	64	60	57	53	51	48	43	41	40	35	34	33	35
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	39	36	34	30	29	28	30
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30	26	25	24	26
5	69	58	50	44	63	54	47	42	46	40	36	38	34	31	32	29	26	23	22	21	23
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	21	20	19	21
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18	17	16	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	17	16	15	17
9	51	39	32	27	47	37	30	26	32	26	23	27	23	20	23	20	17	15	14	13	15
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16	14	13	12	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26715	26715	26715
5°	26759	25416	25228
10°	26494	24106	23311
15°	26130	22559	21124
20°	25649	20799	18839
25°	25156	18994	16748
30°	24492	17236	14463
35°	23844	15464	12501
40°	23184	13722	10481
45°	22417	11925	8719
50°	21623	10191	7098
55°	20797	8460	5635
60°	19836	6765	4264
65°	18731	5159	3465
70°	17396	3742	2756
75°	15719	2854	2105
80°	13293	1932	1413
85°	9281	884	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22417 cd/sqm

TEST NUMBER: P1009674

CATALOG NUMBER: S122RDIP-B1005D1080UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	2.2
10°-20°	434.2	5.9
20°-30°	609.6	8.4
30°-40°	664.5	9.1
40°-50°	610.8	8.4
50°-60°	479.7	6.6
60°-70°	312.2	4.3
70°-80°	160.7	2.2
80°-90°	44.9	0.6
90°-100°	84.6	1.2
100°-110°	269.0	3.7
110°-120°	460.3	6.3
120°-130°	605.3	8.3
130°-140°	679.5	9.3
140°-150°	666.3	9.1
150°-160°	558.9	7.7
160°-170°	370.7	5.1
170°-180°	129.6	1.8
0°-30°	1202.0	16.5
0°-40°	1866.6	25.6
0°-60°	2957.0	40.5
0°-90°	3474.9	47.6
90°-120°	813.9	11.2
90°-150°	2764.9	37.9
90°-180°	3824.0	52.4
0°-180°	7299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1688	1680	1660	1674	1669	160
15°	1605	1588	1536	1508	1492	452
25°	1457	1408	1307	1245	1222	670
35°	1256	1178	1043	947	913	786
45°	1026	924	764	655	619	793
55°	780	661	496	405	376	697
65°	527	403	266	214	209	522
75°	281	174	122	112	110	297
85°	66	34	29	29	29	75
90°	1	15	40	38	39	7
95°	60	72	74	74	72	67
105°	248	252	254	256	256	262
115°	462	469	466	465	462	457
125°	672	682	679	675	674	600
135°	869	882	884	883	880	672
145°	1055	1063	1070	1071	1066	659
155°	1206	1210	1213	1219	1215	555
165°	1312	1311	1311	1319	1314	370
175°	1366	1362	1360	1368	1361	130
180°	1368	1368	1368	1368	1368	

TEST NUMBER: P1009674

CATALOG NUMBER: S122RDIP-B1005D1080UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.7	1687.7	1687.7	1687.7	1687.7
2.5°	1695.4	1687.7	1670.9	1686.2	1683.1
5°	1687.7	1680.1	1660.2	1674.0	1669.4
7.5°	1674.0	1664.8	1643.4	1649.5	1641.9
10°	1655.6	1644.9	1614.4	1609.8	1600.7
12.5°	1632.7	1619.0	1577.7	1568.6	1551.8
15°	1605.2	1588.4	1536.5	1507.5	1492.2
17.5°	1573.2	1548.7	1484.6	1451.0	1426.5
20°	1536.5	1506.0	1429.6	1391.4	1357.8
22.5°	1496.8	1461.7	1373.1	1321.2	1298.2
25°	1457.1	1408.2	1307.4	1244.8	1221.9
27.5°	1409.7	1357.8	1246.3	1174.5	1139.4
30°	1359.3	1301.3	1179.1	1101.2	1060.0
32.5°	1310.5	1240.2	1115.0	1023.3	985.1
35°	1255.5	1177.6	1043.2	947.0	913.4
37.5°	1202.0	1118.0	976.0	870.6	832.4
40°	1145.5	1053.9	905.7	797.3	757.6
42.5°	1087.5	989.7	835.5	722.4	684.2
45°	1026.4	924.0	763.7	655.2	618.6
47.5°	968.3	859.9	694.9	586.5	552.9
50°	904.2	795.7	627.7	522.4	490.3
52.5°	841.6	727.0	563.6	462.8	433.8
55°	780.5	661.3	496.4	404.7	375.7
57.5°	717.9	595.7	436.8	351.3	326.9
60°	653.7	531.5	374.2	296.3	271.9
62.5°	591.1	468.9	320.7	247.4	235.2
65°	526.9	403.2	265.8	213.8	209.2
67.5°	465.8	342.1	213.8	187.9	183.3
70°	401.7	282.6	177.2	161.9	155.8
72.5°	340.6	227.6	148.2	135.9	132.9
75°	281.0	174.1	122.2	111.5	110.0
77.5°	221.5	123.7	96.2	90.1	87.1
80°	166.5	88.6	73.3	67.2	67.2
82.5°	116.1	59.6	50.4	47.3	47.3
85°	65.7	33.6	29.0	29.0	29.0
87.5°	24.4	12.2	12.2	10.7	10.7
90°	1.2	15.0	40.4	38.1	39.2
92.5°	25.4	34.6	35.8	36.9	36.9
95°	60.0	71.6	73.9	73.9	71.6
97.5°	100.4	110.8	115.4	115.4	115.4
100°	146.6	155.8	159.3	159.3	158.1
102.5°	195.1	202.0	206.6	207.8	206.6
105°	248.2	251.6	253.9	256.2	256.2
107.5°	301.3	305.9	305.9	307.0	301.3
110°	352.0	359.0	359.0	359.0	355.5

TEST NUMBER: P1009674

CATALOG NUMBER: S122RDIP-B1005D1080UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	407.5	414.4	413.2	409.8	407.5
115°	461.7	468.6	466.3	465.2	461.7
117.5°	516.0	525.2	519.4	516.0	512.5
120°	570.2	579.4	570.2	570.2	566.7
122.5°	619.8	631.4	625.6	622.1	619.8
125°	671.8	682.2	678.7	675.2	674.1
127.5°	722.6	735.3	730.6	726.0	722.6
130°	769.9	784.9	782.6	780.3	775.7
132.5°	823.0	834.5	835.7	829.9	826.5
135°	869.2	881.9	884.2	883.0	879.5
137.5°	919.9	930.3	932.6	931.5	926.9
140°	965.0	975.4	981.1	981.1	976.5
142.5°	1011.1	1021.5	1025.0	1026.1	1021.5
145°	1055.0	1063.1	1070.0	1071.2	1066.5
147.5°	1094.2	1104.6	1109.2	1111.6	1106.9
150°	1134.6	1141.6	1146.2	1149.6	1146.2
152.5°	1170.4	1177.3	1183.1	1187.7	1183.1
155°	1206.2	1209.7	1213.1	1218.9	1215.4
157.5°	1237.4	1239.7	1242.0	1250.1	1244.3
160°	1265.1	1267.4	1268.5	1275.5	1270.8
162.5°	1290.5	1290.5	1291.6	1299.7	1293.9
165°	1312.4	1311.2	1311.2	1319.3	1313.5
167.5°	1332.0	1328.6	1328.6	1336.6	1330.9
170°	1347.0	1343.6	1342.4	1350.5	1343.6
172.5°	1357.4	1353.9	1352.8	1360.9	1353.9
175°	1365.5	1362.0	1359.7	1367.8	1360.9
177.5°	1370.1	1366.6	1364.3	1371.3	1364.3
180°	1367.8	1367.8	1367.8	1367.8	1367.8

(END OF REPORT)