

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: P1029210

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029210
REPORT IS A COMBINATION OF REPORTS P985158 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

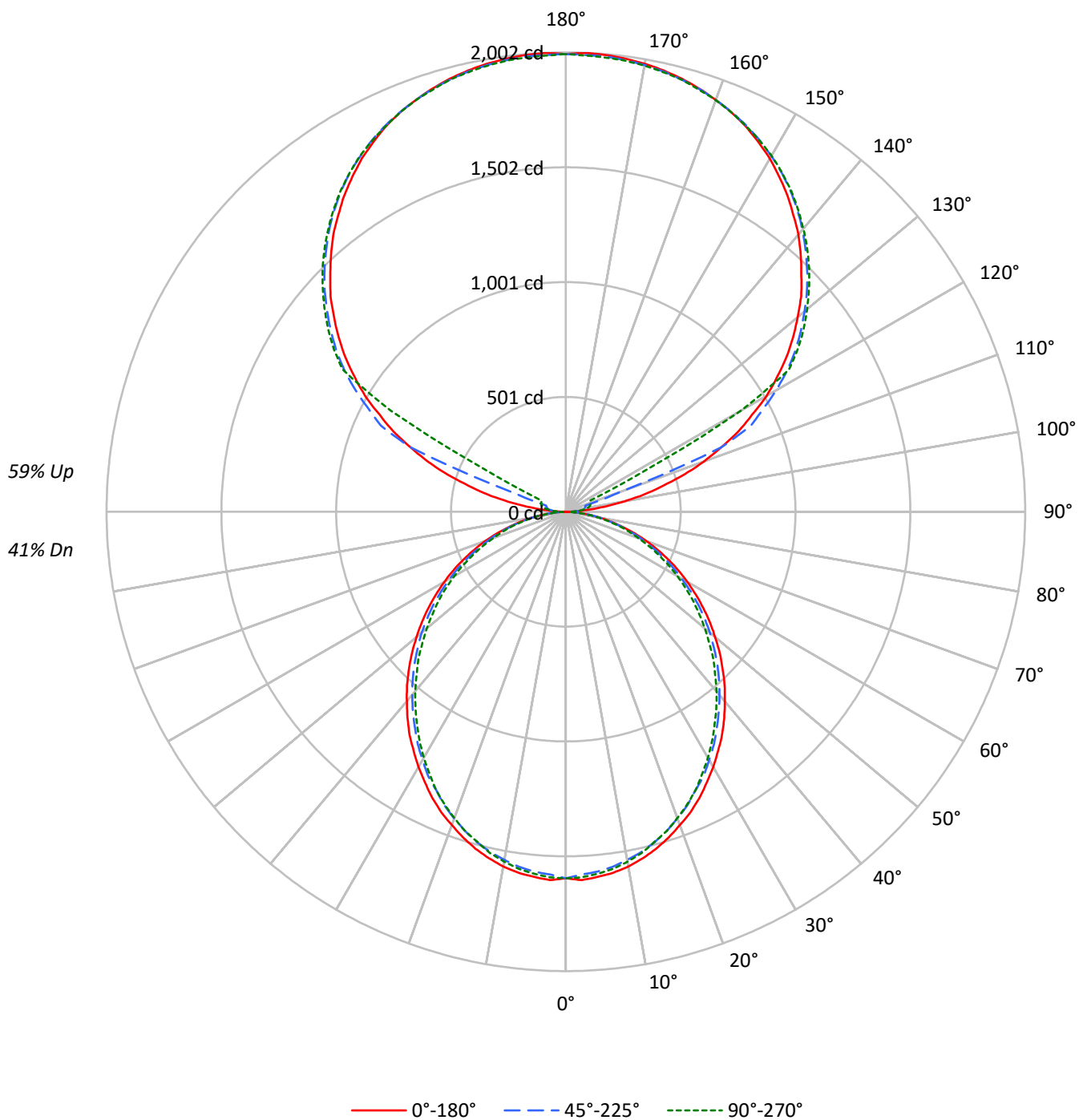
Lumens per Lamp: N/A
Luminaire Lumens: 9914.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 113.5
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

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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
RCR																				
0	105	105	105	105	96	96	96	96		78	78	78		62	62	62		48	48	48
1	96	92	88	84	87	84	80	77		69	66	64		55	53	52		42	41	40
2	87	80	74	69	79	73	68	63		60	56	53		48	46	43		37	36	34
3	80	70	63	57	72	64	58	53		53	48	45		43	39	37		33	31	29
4	73	62	54	48	66	57	50	45		47	42	38		38	34	31		29	27	25
5	67	55	47	41	61	51	44	38		42	37	33		34	30	27		27	24	22
6	61	50	42	36	56	45	38	33		38	33	29		31	27	24		24	21	19
7	57	45	37	31	52	41	34	29		34	29	25		28	24	21		22	19	17
8	53	40	33	28	48	37	31	26		31	26	22		26	22	19		20	17	15
9	49	37	30	25	45	34	27	23		29	23	20		23	20	17		19	16	14
10	46	34	27	22	42	31	25	21		26	21	18		22	18	15		17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25286	25286	25286
5°	25327	24101	23931
10°	25120	23004	22546
15°	24753	21896	21092
20°	24255	20693	19713
25°	23759	19436	18336
30°	23137	18254	16892
35°	22549	17008	15473
40°	21822	15778	14131
45°	21100	14558	12816
50°	20312	13317	11451
55°	19481	11990	10160
60°	18550	10553	8816
65°	17526	9093	7403
70°	16232	7493	5978
75°	14433	5777	4615
80°	12263	3926	2971
85°	8899	1826	1265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	1.5
10°-20°	423.0	4.3
20°-30°	621.6	6.3
30°-40°	722.0	7.3
40°-50°	721.1	7.3
50°-60°	628.8	6.3
60°-70°	464.8	4.7
70°-80°	263.0	2.7
80°-90°	72.9	0.7
90°-100°	65.8	0.7
100°-110°	245.1	2.5
110°-120°	650.1	6.6
120°-130°	1078.3	10.9
130°-140°	1145.4	11.6
140°-150°	1064.6	10.7
150°-160°	855.9	8.6
160°-170°	551.5	5.6
170°-180°	189.8	1.9
0°-30°	1195.0	12.1
0°-40°	1917.0	19.3
0°-60°	3266.8	33.0
0°-90°	4067.5	41.0
90°-120°	961.1	9.7
90°-150°	4249.3	42.9
90°-180°	5846.0	59.0
0°-180°	9914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1597	1591	1574	1587	1584	152
15°	1521	1511	1491	1498	1490	428
25°	1376	1364	1338	1341	1338	633
35°	1187	1172	1147	1138	1130	741
45°	966	955	932	915	909	746
55°	731	722	704	685	677	654
65°	493	484	468	455	447	487
75°	258	255	247	238	241	275
85°	63	61	60	55	54	70
90°	1	17	29	36	39	9
95°	94	46	56	64	62	111
105°	439	482	88	104	110	469
115°	830	854	890	222	118	817
125°	1173	1192	1219	1230	1234	1046
135°	1452	1475	1488	1502	1499	1121
145°	1684	1683	1707	1717	1710	1053
155°	1854	1841	1859	1867	1856	854
165°	1954	1945	1950	1960	1950	552
175°	1999	1988	1991	2002	1987	190
180°	1994	1994	1994	1994	1994	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.4	1597.4	1597.4	1597.4	1597.4
2.5°	1606.6	1598.9	1582.0	1597.4	1594.3
5°	1597.4	1591.2	1574.3	1586.6	1583.6
7.5°	1586.6	1577.4	1560.5	1572.8	1569.7
10°	1569.7	1559.0	1540.6	1552.8	1548.2
12.5°	1546.7	1537.5	1519.1	1526.7	1523.7
15°	1520.6	1511.4	1491.4	1497.5	1489.9
17.5°	1488.3	1479.1	1459.1	1466.8	1459.1
20°	1453.0	1443.8	1422.3	1426.9	1420.8
22.5°	1417.7	1403.9	1383.9	1383.9	1380.8
25°	1376.2	1363.9	1337.8	1340.9	1337.8
27.5°	1330.1	1319.4	1299.4	1294.8	1287.1
30°	1284.1	1271.8	1248.7	1244.1	1238.0
32.5°	1234.9	1225.7	1201.1	1191.9	1185.8
35°	1187.3	1171.9	1147.4	1138.1	1130.5
37.5°	1133.5	1119.7	1095.1	1084.4	1076.7
40°	1078.2	1065.9	1041.4	1027.5	1021.4
42.5°	1024.5	1012.2	987.6	972.3	963.0
45°	966.1	955.4	932.3	915.4	909.3
47.5°	909.3	898.5	874.0	857.1	847.8
50°	849.4	841.7	820.2	798.7	791.0
52.5°	791.0	780.3	760.3	743.4	732.6
55°	731.1	721.9	703.5	685.0	677.4
57.5°	671.2	663.5	643.6	625.1	619.0
60°	611.3	605.2	583.7	566.8	562.2
62.5°	552.9	542.2	526.8	511.5	505.3
65°	493.0	483.8	468.5	454.6	447.0
67.5°	431.6	423.9	410.1	399.3	393.2
70°	374.8	368.6	354.8	344.1	337.9
72.5°	316.4	310.3	302.6	291.8	287.2
75°	258.0	255.0	247.3	238.1	241.1
77.5°	205.8	199.7	196.6	192.0	187.4
80°	153.6	152.1	149.0	144.4	141.3
82.5°	104.4	104.4	102.9	96.8	96.8
85°	63.0	61.4	59.9	55.3	53.8
87.5°	27.6	24.6	21.5	16.9	15.4
90°	1.4	17.3	28.9	36.1	39.0
92.5°	36.1	30.3	34.6	37.5	39.0
95°	93.8	46.2	56.3	63.5	62.1
97.5°	168.8	50.5	73.6	77.9	79.4
100°	255.4	57.7	82.3	93.8	96.7
102.5°	350.7	347.8	85.1	101.0	105.3
105°	438.7	482.0	88.0	103.9	109.7
107.5°	541.1	577.2	90.9	106.8	112.6
110°	639.3	669.6	252.5	108.2	114.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	731.6	757.6	733.1	111.1	115.4
115°	829.7	854.3	890.3	222.2	118.3
117.5°	914.9	943.7	968.3	761.9	383.8
120°	1010.1	1031.8	1057.7	1075.1	880.2
122.5°	1090.9	1114.0	1142.9	1151.5	1153.0
125°	1173.2	1191.9	1219.4	1229.5	1233.8
127.5°	1248.2	1268.4	1290.1	1304.5	1305.9
130°	1318.9	1342.0	1357.9	1373.8	1372.3
132.5°	1391.1	1409.8	1425.7	1438.7	1437.3
135°	1451.7	1474.8	1487.8	1502.2	1499.3
137.5°	1515.2	1532.5	1546.9	1561.4	1557.0
140°	1577.2	1588.8	1604.6	1617.6	1610.4
142.5°	1629.2	1639.3	1658.0	1669.6	1662.4
145°	1684.0	1682.6	1707.1	1717.2	1710.0
147.5°	1731.6	1727.3	1751.8	1759.1	1753.3
150°	1777.8	1767.7	1790.8	1799.5	1792.2
152.5°	1816.8	1805.2	1826.9	1835.5	1825.4
155°	1854.3	1841.3	1858.6	1867.3	1855.7
157.5°	1884.6	1873.1	1886.0	1896.1	1884.6
160°	1910.6	1901.9	1910.6	1919.2	1909.1
162.5°	1933.7	1925.0	1932.2	1942.3	1929.3
165°	1953.9	1945.2	1949.5	1959.6	1949.5
167.5°	1969.7	1961.1	1965.4	1975.5	1962.5
170°	1982.7	1974.1	1977.0	1987.1	1974.1
172.5°	1991.4	1982.7	1985.6	1995.7	1982.7
175°	1998.6	1988.5	1991.4	2001.5	1987.1
177.5°	2001.5	1991.4	1992.8	2002.9	1989.9
180°	1994.3	1994.3	1994.3	1994.3	1994.3

(END OF REPORT)