

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: P1029180

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029180
REPORT IS A COMBINATION OF REPORTS P985068 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D1240UB2750-4F0-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

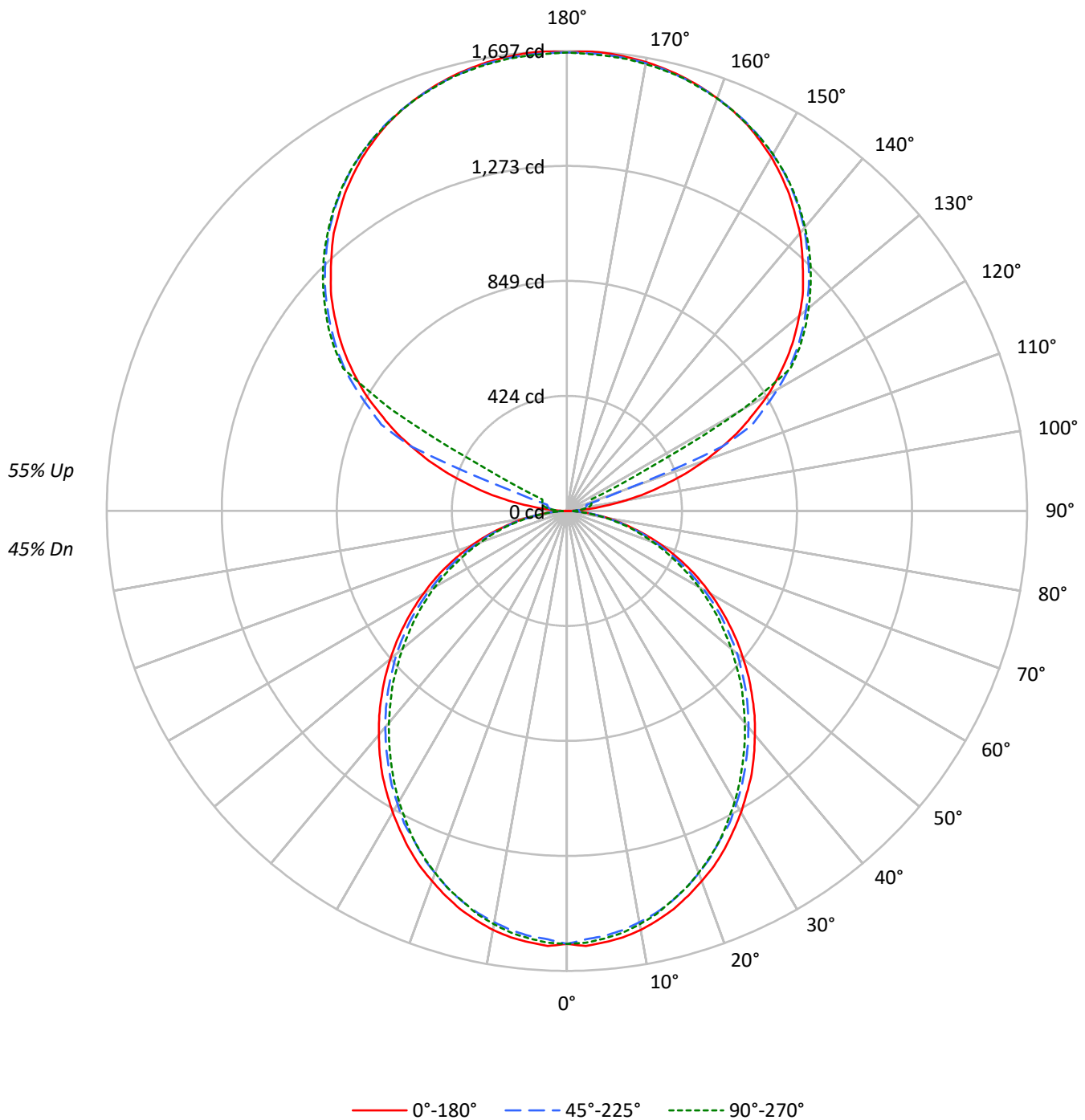
Lumens per Lamp: N/A
Luminaire Lumens: 9025.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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

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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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52
1	97	92	89	85	88	85	82	79	71	68	66	58	56	54	46	45	44
2	88	81	75	69	80	74	69	64	62	58	55	51	48	46	40	38	37
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27
5	67	56	48	42	62	52	44	39	43	38	34	36	32	29	29	26	23
6	62	50	42	36	57	46	39	34	39	34	29	32	28	25	26	23	21
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16
9	50	37	30	25	45	35	28	23	30	24	21	25	21	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13

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	1.7
10°-20°	423.0	4.7
20°-30°	621.6	6.9
30°-40°	722.0	8.0
40°-50°	721.1	8.0
50°-60°	628.8	7.0
60°-70°	464.8	5.1
70°-80°	263.0	2.9
80°-90°	72.4	0.8
90°-100°	55.8	0.6
100°-110°	207.9	2.3
110°-120°	551.4	6.1
120°-130°	914.4	10.1
130°-140°	971.3	10.8
140°-150°	902.8	10.0
150°-160°	725.8	8.0
160°-170°	467.7	5.2
170°-180°	161.0	1.8
0°-30°	1195.0	13.2
0°-40°	1917.0	21.2
0°-60°	3266.8	36.2
0°-90°	4067.0	45.1
90°-120°	815.0	9.0
90°-150°	3603.6	39.9
90°-180°	4958.0	54.9
0°-180°	9025.0	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	15	24	31	33	8
95°	80	39	48	54	53	94
105°	372	409	75	88	93	397
115°	704	724	755	188	100	693
125°	995	1011	1034	1043	1046	887
135°	1231	1251	1262	1274	1272	951
145°	1428	1427	1448	1456	1450	893
155°	1572	1562	1576	1584	1574	725
165°	1657	1650	1653	1662	1653	468
175°	1695	1686	1689	1697	1685	161
180°	1691	1691	1691	1691	1691	

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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°	1.2	14.7	24.5	30.6	33.0
92.5°	30.6	25.7	29.4	31.8	33.0
95°	79.5	39.2	47.7	53.8	52.6
97.5°	143.2	42.8	62.4	66.1	67.3
100°	216.6	48.9	69.8	79.5	82.0
102.5°	297.4	294.9	72.2	85.7	89.3
105°	372.0	408.7	74.6	88.1	93.0
107.5°	458.9	489.5	77.1	90.6	95.5
110°	542.1	567.8	214.2	91.8	96.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	620.4	642.5	621.7	94.2	97.9
115°	703.6	724.5	755.0	188.5	100.3
117.5°	775.9	800.3	821.1	646.1	325.5
120°	856.6	875.0	897.0	911.7	746.5
122.5°	925.1	944.7	969.2	976.5	977.8
125°	994.9	1010.8	1034.1	1042.6	1046.3
127.5°	1058.5	1075.7	1094.0	1106.3	1107.5
130°	1118.5	1138.1	1151.5	1165.0	1163.8
132.5°	1179.7	1195.6	1209.1	1220.1	1218.8
135°	1231.1	1250.7	1261.7	1273.9	1271.5
137.5°	1284.9	1299.6	1311.8	1324.1	1320.4
140°	1337.5	1347.3	1360.8	1371.8	1365.7
142.5°	1381.6	1390.2	1406.1	1415.9	1409.7
145°	1428.1	1426.9	1447.7	1456.2	1450.1
147.5°	1468.5	1464.8	1485.6	1491.7	1486.8
150°	1507.6	1499.1	1518.7	1526.0	1519.9
152.5°	1540.7	1530.9	1549.3	1556.6	1548.0
155°	1572.5	1561.5	1576.2	1583.5	1573.7
157.5°	1598.2	1588.4	1599.4	1608.0	1598.2
160°	1620.2	1612.9	1620.2	1627.6	1619.0
162.5°	1639.8	1632.5	1638.6	1647.2	1636.1
165°	1656.9	1649.6	1653.3	1661.8	1653.3
167.5°	1670.4	1663.1	1666.7	1675.3	1664.3
170°	1681.4	1674.1	1676.5	1685.1	1674.1
172.5°	1688.8	1681.4	1683.9	1692.4	1681.4
175°	1694.9	1686.3	1688.8	1697.3	1685.1
177.5°	1697.3	1688.8	1690.0	1698.5	1687.5
180°	1691.2	1691.2	1691.2	1691.2	1691.2

(END OF REPORT)