

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: P1029178

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029178
REPORT IS A COMBINATION OF REPORTS P985061 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-F1_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

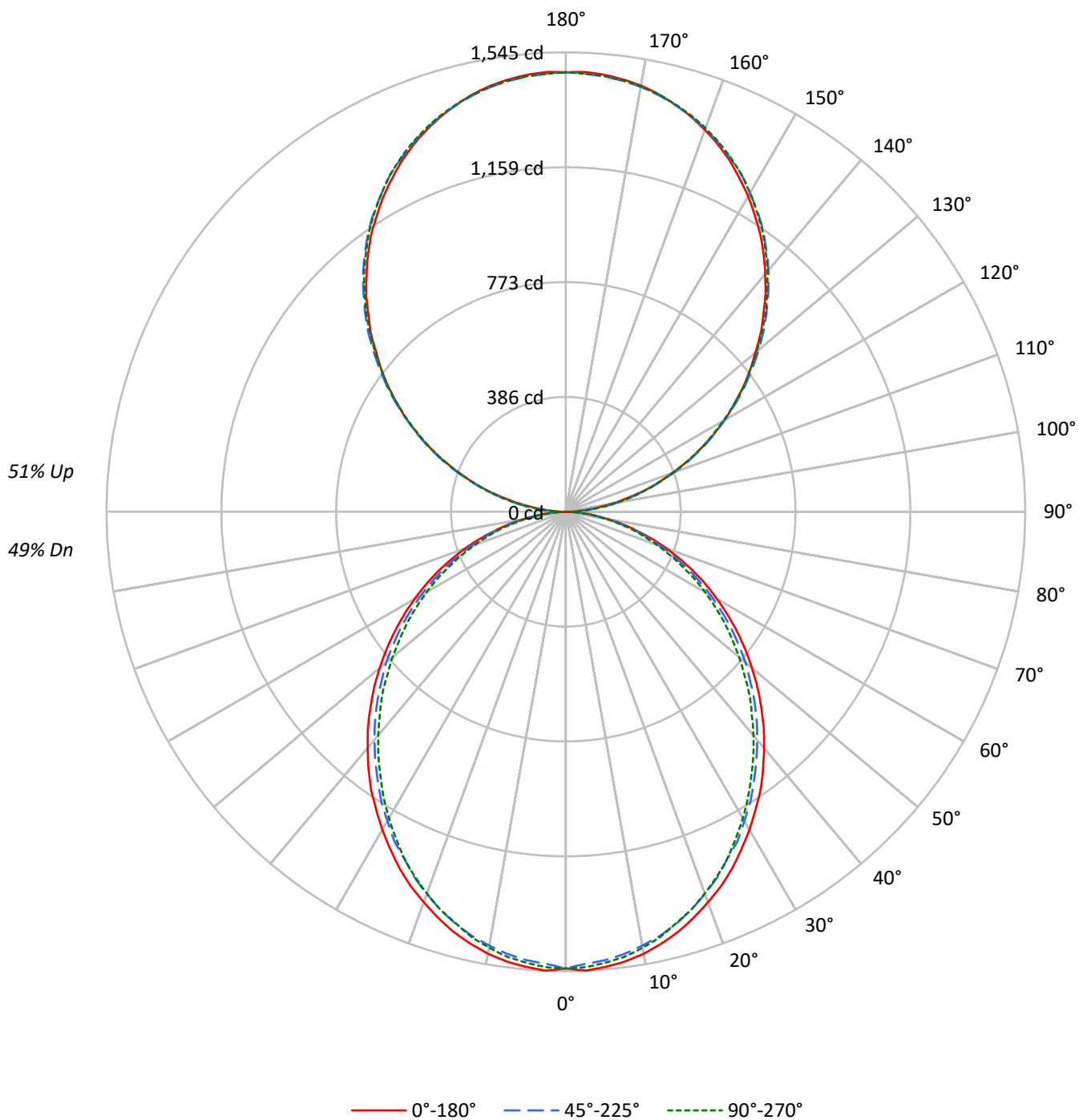
Lumens per Lamp: N/A
Luminaire Lumens: 8045.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46
2	89	81	75	70	81	75	70	65	63	60	56	53	50	47	43	41	39
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	35	33
4	74	63	55	49	68	59	52	46	50	44	40	41	38	34	34	31	29
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	30	25	46	35	29	24	30	25	21	26	22	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24315	24315	24315
5°	24355	23176	23013
10°	24156	22120	21681
15°	23803	21057	20282
20°	23324	19899	18956
25°	22848	18690	17633
30°	22249	17554	16243
35°	21683	16355	14879
40°	20984	15172	13589
45°	20289	13999	12325
50°	19533	12805	11011
55°	18732	11530	9770
60°	17837	10148	8477
65°	16854	8743	7118
70°	15608	7206	5748
75°	13879	5555	4439
80°	11792	3776	2857
85°	8560	1756	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20289 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	1.8
10°-20°	406.8	5.1
20°-30°	597.8	7.4
30°-40°	694.3	8.6
40°-50°	693.4	8.6
50°-60°	604.6	7.5
60°-70°	446.9	5.6
70°-80°	252.9	3.1
80°-90°	70.9	0.9
90°-100°	91.4	1.1
100°-110°	290.7	3.6
110°-120°	497.4	6.2
120°-130°	654.2	8.1
130°-140°	734.3	9.1
140°-150°	720.1	9.0
150°-160°	604.0	7.5
160°-170°	400.6	5.0
170°-180°	140.0	1.7
0°-30°	1149.1	14.3
0°-40°	1843.4	22.9
0°-60°	3141.4	39.0
0°-90°	3912.2	48.6
90°-120°	879.5	10.9
90°-150°	2988.1	37.1
90°-180°	4133.0	51.4
0°-180°	8045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1536	1530	1514	1526	1523	146
15°	1462	1453	1434	1440	1433	412
25°	1323	1312	1286	1289	1286	609
35°	1142	1127	1103	1094	1087	713
45°	929	919	896	880	874	717
55°	703	694	676	659	651	629
65°	474	465	450	437	430	469
75°	248	245	238	229	232	265
85°	61	59	58	53	52	67
90°	1	16	44	41	42	8
95°	65	77	80	80	77	72
105°	268	272	274	277	277	283
115°	499	506	504	503	499	494
125°	726	737	734	730	728	649
135°	939	953	956	954	950	726
145°	1140	1149	1156	1158	1153	712
155°	1304	1307	1311	1317	1314	600
165°	1418	1417	1417	1426	1420	400
175°	1476	1472	1470	1478	1471	140
180°	1478	1478	1478	1478	1478	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.1	1536.1	1536.1	1536.1	1536.1
2.5°	1544.9	1537.5	1521.3	1536.1	1533.1
5°	1536.1	1530.2	1513.9	1525.7	1522.8
7.5°	1525.7	1516.9	1500.6	1512.4	1509.5
10°	1509.5	1499.1	1481.4	1493.2	1488.8
12.5°	1487.3	1478.5	1460.7	1468.1	1465.2
15°	1462.2	1453.4	1434.2	1440.1	1432.7
17.5°	1431.2	1422.3	1403.1	1410.5	1403.1
20°	1397.2	1388.4	1367.7	1372.1	1366.2
22.5°	1363.3	1350.0	1330.8	1330.8	1327.8
25°	1323.4	1311.6	1286.5	1289.4	1286.5
27.5°	1279.1	1268.7	1249.5	1245.1	1237.7
30°	1234.8	1222.9	1200.8	1196.4	1190.5
32.5°	1187.5	1178.6	1155.0	1146.1	1140.2
35°	1141.7	1126.9	1103.3	1094.4	1087.1
37.5°	1090.0	1076.7	1053.1	1042.8	1035.4
40°	1036.8	1025.0	1001.4	988.1	982.2
42.5°	985.2	973.3	949.7	934.9	926.1
45°	929.0	918.7	896.5	880.3	874.4
47.5°	874.4	864.0	840.4	824.2	815.3
50°	816.8	809.4	788.7	768.0	760.6
52.5°	760.6	750.3	731.1	714.9	704.5
55°	703.0	694.2	676.5	658.7	651.4
57.5°	645.4	638.1	618.9	601.1	595.2
60°	587.8	581.9	561.3	545.0	540.6
62.5°	531.7	521.4	506.6	491.8	485.9
65°	474.1	465.3	450.5	437.2	429.8
67.5°	415.0	407.6	394.4	384.0	378.1
70°	360.4	354.5	341.2	330.8	324.9
72.5°	304.3	298.4	291.0	280.6	276.2
75°	248.1	245.2	237.8	228.9	231.9
77.5°	197.9	192.0	189.1	184.6	180.2
80°	147.7	146.2	143.3	138.8	135.9
82.5°	100.4	100.4	99.0	93.1	93.1
85°	60.6	59.1	57.6	53.2	51.7
87.5°	26.6	23.6	20.7	16.2	14.8
90°	1.2	16.2	43.7	41.2	42.4
92.5°	27.4	37.4	38.7	39.9	39.9
95°	64.9	77.3	79.8	79.8	77.3
97.5°	108.5	119.8	124.7	124.7	124.7
100°	158.4	168.4	172.1	172.1	170.9
102.5°	210.8	218.3	223.3	224.5	223.3
105°	268.2	271.9	274.4	276.9	276.9
107.5°	325.6	330.6	330.6	331.8	325.6
110°	380.5	388.0	388.0	388.0	384.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	440.3	447.8	446.6	442.8	440.3
115°	499.0	506.5	504.0	502.7	499.0
117.5°	557.6	567.6	561.3	557.6	553.9
120°	616.2	626.2	616.2	616.2	612.5
122.5°	669.9	682.3	676.1	672.4	669.9
125°	726.0	737.2	733.5	729.7	728.5
127.5°	780.9	794.6	789.6	784.6	780.9
130°	832.0	848.3	845.8	843.3	838.3
132.5°	889.4	901.9	903.1	896.9	893.2
135°	939.3	953.0	955.5	954.3	950.5
137.5°	994.2	1005.4	1007.9	1006.7	1001.7
140°	1042.9	1054.1	1060.3	1060.3	1055.3
142.5°	1092.8	1104.0	1107.7	1109.0	1104.0
145°	1140.2	1148.9	1156.4	1157.6	1152.6
147.5°	1182.6	1193.8	1198.8	1201.3	1196.3
150°	1226.2	1233.7	1238.7	1242.4	1238.7
152.5°	1264.9	1272.4	1278.6	1283.6	1278.6
155°	1303.6	1307.3	1311.1	1317.3	1313.5
157.5°	1337.2	1339.7	1342.2	1351.0	1344.7
160°	1367.2	1369.7	1370.9	1378.4	1373.4
162.5°	1394.6	1394.6	1395.9	1404.6	1398.4
165°	1418.3	1417.1	1417.1	1425.8	1419.6
167.5°	1439.5	1435.8	1435.8	1444.5	1438.3
170°	1455.8	1452.0	1450.8	1459.5	1452.0
172.5°	1467.0	1463.2	1462.0	1470.7	1463.2
175°	1475.7	1472.0	1469.5	1478.2	1470.7
177.5°	1480.7	1477.0	1474.5	1482.0	1474.5
180°	1478.2	1478.2	1478.2	1478.2	1478.2

(END OF REPORT)