

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: P1029168

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029168
REPORT IS A COMBINATION OF REPORTS P985046 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-D1_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

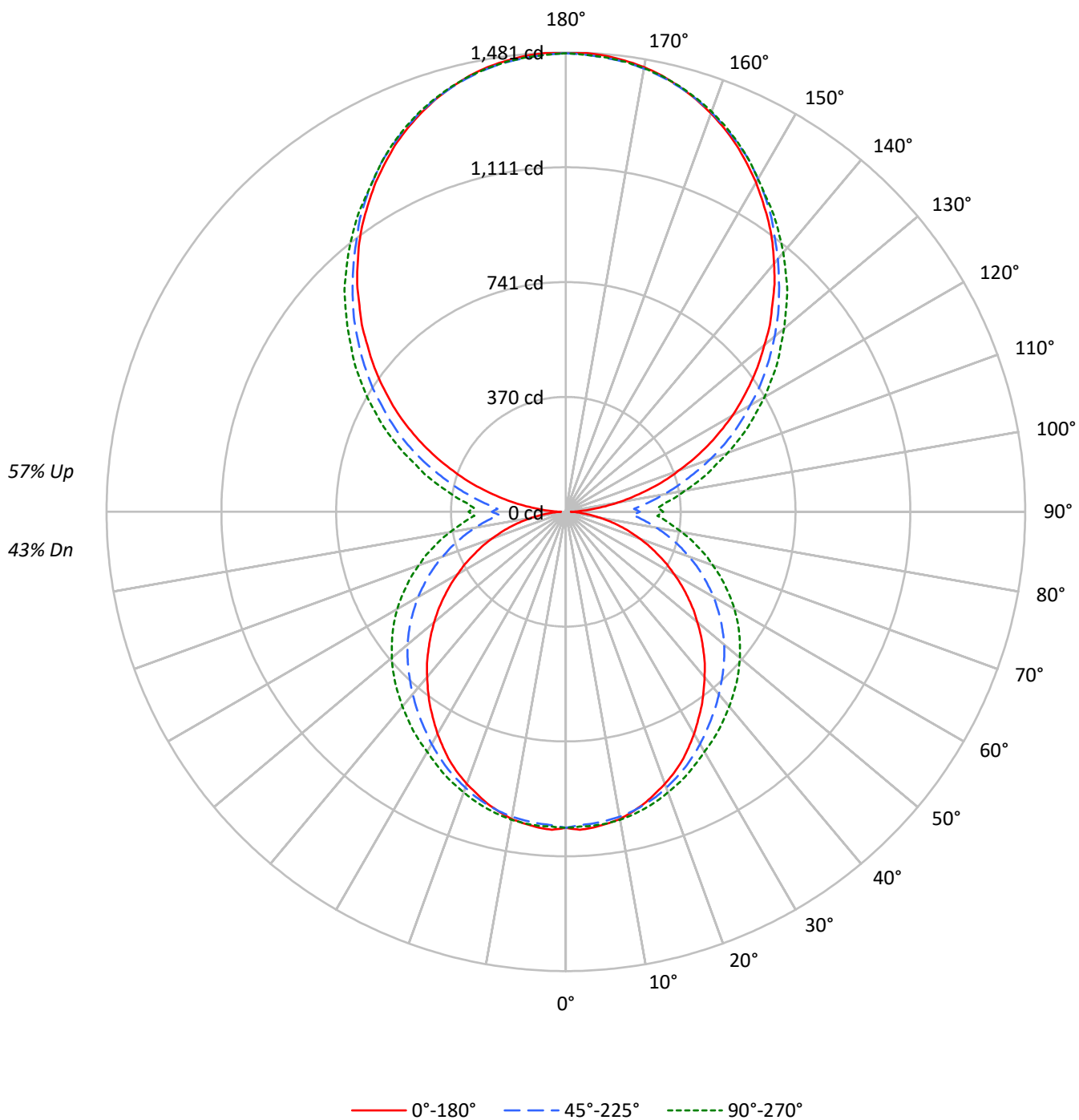
Lumens per Lamp: N/A
Luminaire Lumens: 8025.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	106	106	106	106	96	96	96	96	80	80	80		64	64	64		50
1	95	90	86	82	86	82	79	75	68	65	63		54	52	51		42
2	86	78	71	66	78	71	65	61	59	54	51		47	44	41		36
3	78	68	60	54	71	62	55	50	51	46	42		41	37	34		32
4	71	60	52	45	65	55	48	42	45	40	35		36	32	29		28
5	65	53	45	39	59	49	41	36	40	35	30		32	28	25		25
6	60	47	39	33	54	44	36	31	36	30	26		29	25	22		23
7	55	43	35	29	50	39	32	27	33	27	23		26	22	19		21
8	51	39	31	25	47	36	29	24	30	24	20		24	20	17		19
9	48	35	28	22	43	32	26	21	27	22	18		22	18	15		17
10	44	32	25	20	40	30	23	19	25	20	16		20	16	13		16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16130	16130	16130
5°	16202	15441	15354
10°	16094	14906	14688
15°	15867	14353	14006
20°	15580	13772	13358
25°	15298	13216	12771
30°	14901	12651	12190
35°	14500	12105	11764
40°	14078	11634	11339
45°	13674	11207	10970
50°	13243	10813	10604
55°	12787	10395	10233
60°	12235	9958	9842
65°	11653	9457	9392
70°	11000	8921	8909
75°	10159	8383	8452
80°	8846	7821	7978
85°	7515	7294	7570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.2
10°-20°	277.0	3.5
20°-30°	419.8	5.2
30°-40°	511.2	6.4
40°-50°	550.0	6.9
50°-60°	534.1	6.7
60°-70°	466.4	5.8
70°-80°	359.0	4.5
80°-90°	244.7	3.0
90°-100°	257.3	3.2
100°-110°	411.8	5.1
110°-120°	577.4	7.2
120°-130°	698.7	8.7
130°-140°	753.0	9.4
140°-150°	723.3	9.0
150°-160°	604.0	7.5
160°-170°	400.6	5.0
170°-180°	140.0	1.7
0°-30°	793.4	9.9
0°-40°	1304.6	16.3
0°-60°	2388.7	29.8
0°-90°	3458.8	43.1
90°-120°	1246.5	15.5
90°-150°	3421.6	42.6
90°-180°	4566.0	56.9
0°-180°	8025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1022	1018	1009	1018	1016	97
15°	975	978	978	991	989	275
25°	886	896	910	927	932	407
35°	764	789	817	849	860	477
45°	626	666	718	764	778	483
55°	480	533	610	663	682	429
65°	328	400	487	548	567	326
75°	182	264	359	422	442	192
85°	53	145	239	301	322	56
90°	16	117	239	295	314	14
95°	77	158	250	306	321	82
105°	276	322	401	456	472	292
115°	505	529	593	636	648	499
125°	729	740	784	820	832	652
135°	941	954	972	1002	1010	727
145°	1140	1149	1156	1166	1169	713
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°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1026.3	1021.9	1011.6	1019.0	1016.0
5°	1021.9	1017.5	1008.6	1017.5	1016.0
7.5°	1014.5	1011.6	1004.2	1014.5	1013.1
10°	1005.7	1002.7	998.3	1010.1	1008.6
12.5°	990.9	992.4	989.4	1001.2	999.8
15°	974.7	977.6	977.6	990.9	989.4
17.5°	954.0	959.9	964.3	977.6	977.6
20°	933.3	940.7	946.6	962.8	962.8
22.5°	911.2	920.0	928.9	945.1	948.1
25°	886.1	896.4	909.7	927.4	931.8
27.5°	856.5	872.8	887.5	909.7	912.6
30°	827.0	846.2	865.4	889.0	893.4
32.5°	794.5	816.6	840.3	868.3	877.2
35°	763.5	788.6	816.6	849.1	859.5
37.5°	729.5	757.6	793.0	828.5	838.8
40°	695.6	728.0	767.9	806.3	819.6
42.5°	663.1	695.6	742.8	785.6	798.9
45°	626.1	666.0	717.7	763.5	778.3
47.5°	590.7	633.5	692.6	739.9	756.1
50°	553.8	599.6	666.0	716.2	732.5
52.5°	518.3	567.1	638.0	689.6	707.4
55°	479.9	533.1	609.9	663.1	682.3
57.5°	443.0	502.1	578.9	636.5	655.7
60°	403.2	466.7	550.8	606.9	627.6
62.5°	367.7	434.2	518.3	578.9	598.1
65°	327.8	400.2	487.3	547.9	567.1
67.5°	292.4	367.7	456.3	516.9	537.5
70°	254.0	330.8	422.4	485.9	503.6
72.5°	218.6	298.3	391.3	453.4	475.5
75°	181.6	264.3	358.9	422.4	441.6
77.5°	146.2	231.9	327.8	391.3	412.0
80°	110.8	200.8	296.8	358.9	379.5
82.5°	81.2	169.8	267.3	329.3	348.5
85°	53.2	144.7	239.2	301.3	321.9
87.5°	32.5	121.1	215.6	276.2	295.4
90°	16.0	116.6	238.6	295.2	314.1
92.5°	40.7	129.0	220.3	279.1	296.9
95°	76.7	158.5	249.6	305.7	321.0
97.5°	118.8	193.6	284.2	338.8	356.6
100°	168.7	233.4	319.8	374.4	389.5
102.5°	219.7	275.9	360.6	415.0	430.0
105°	275.6	322.1	401.4	455.6	471.8
107.5°	333.0	373.4	447.3	498.7	508.7
110°	386.4	423.4	495.8	543.1	555.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.2	477.3	544.1	587.5	601.3
115°	504.9	528.7	592.6	635.6	648.2
117.5°	562.0	583.8	639.6	680.2	691.2
120°	620.6	636.5	685.6	727.0	739.5
122.5°	674.3	688.2	736.6	772.8	783.6
125°	729.0	740.2	783.7	819.8	831.9
127.5°	783.9	796.1	830.9	862.9	872.5
130°	835.0	849.8	878.3	911.2	918.0
132.5°	892.4	903.4	926.7	954.5	962.6
135°	940.8	954.5	971.7	1001.6	1009.6
137.5°	995.7	1006.9	1016.8	1043.6	1049.0
140°	1044.4	1054.1	1063.3	1086.9	1090.7
142.5°	1094.3	1104.0	1107.7	1126.7	1129.1
145°	1140.2	1148.9	1156.4	1166.5	1168.8
147.5°	1182.6	1193.8	1198.8	1202.8	1202.2
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)