

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: P1029208

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029208
REPORT IS A COMBINATION OF REPORTS P985151 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-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

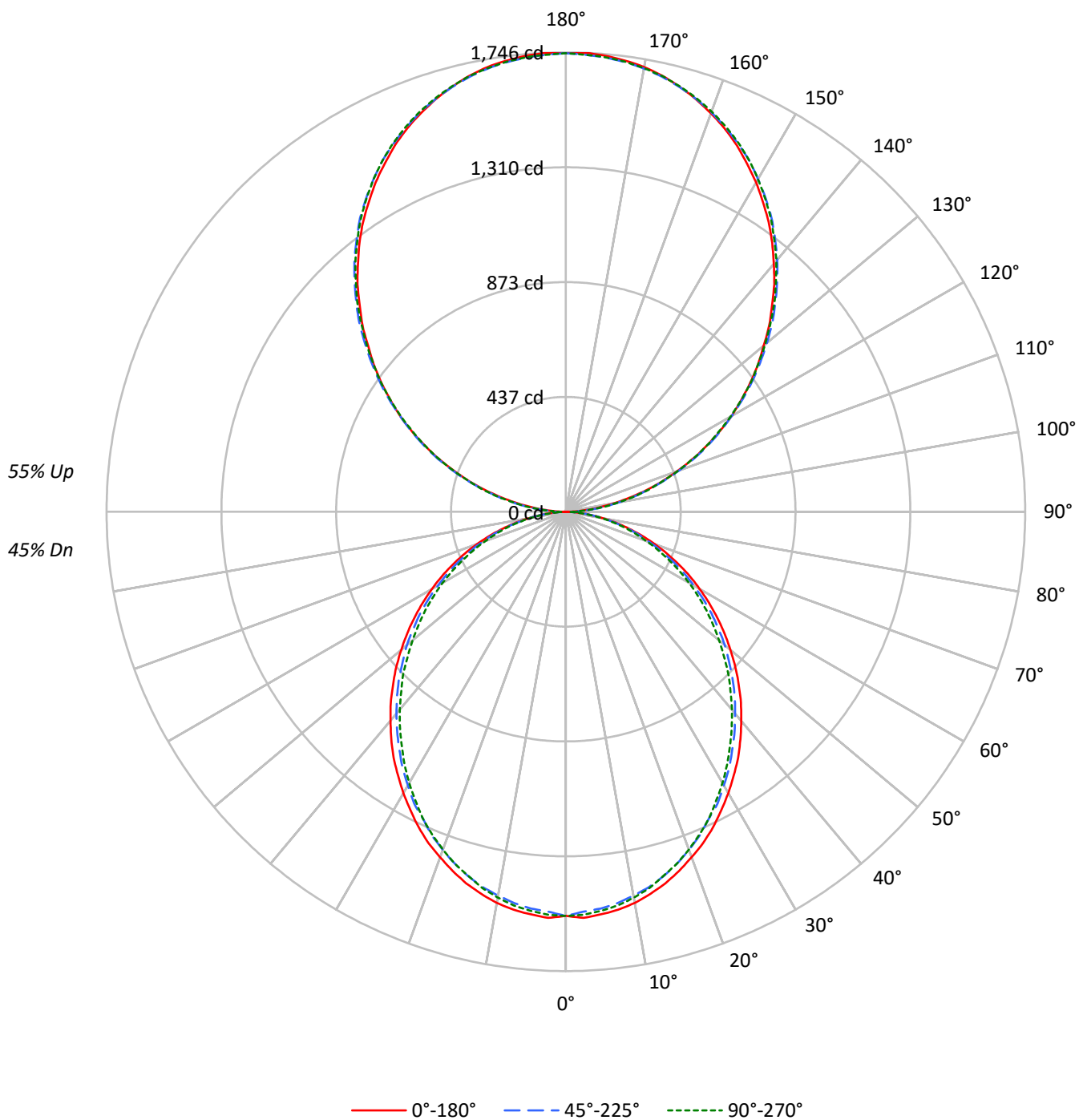
Lumens per Lamp: N/A
Luminaire Lumens: 8786.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51			45
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43			37
2	88	81	74	69	80	74	69	64	62	58	55	50	48	45	40	38	36			31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31			27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	31	29	27			23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	28	25	23			20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20			17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18			15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16			14
9	49	37	30	25	45	35	28	23	29	24	20	25	20	18	20	17	15			12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13			11

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	1.6
10°-20°	406.8	4.6
20°-30°	597.8	6.8
30°-40°	694.3	7.9
40°-50°	693.4	7.9
50°-60°	604.6	6.9
60°-70°	446.9	5.1
70°-80°	252.9	2.9
80°-90°	71.7	0.8
90°-100°	107.8	1.2
100°-110°	342.8	3.9
110°-120°	586.5	6.7
120°-130°	771.4	8.8
130°-140°	865.8	9.9
140°-150°	849.1	9.7
150°-160°	712.2	8.1
160°-170°	472.4	5.4
170°-180°	165.1	1.9
0°-30°	1149.1	13.1
0°-40°	1843.4	21.0
0°-60°	3141.4	35.8
0°-90°	3913.0	44.5
90°-120°	1037.1	11.8
90°-150°	3523.4	40.1
90°-180°	4873.0	55.5
0°-180°	8786.0	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°	2	19	52	48	50	8
95°	76	91	94	94	91	85
105°	316	321	324	326	326	334
115°	588	597	594	593	588	582
125°	856	869	865	860	859	765
135°	1108	1124	1127	1125	1121	856
145°	1344	1355	1364	1365	1359	840
155°	1537	1542	1546	1553	1549	708
165°	1672	1671	1671	1681	1674	472
175°	1740	1736	1733	1743	1734	165
180°	1743	1743	1743	1743	1743	

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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°	1.5	19.1	51.5	48.5	50.0
92.5°	32.4	44.1	45.6	47.1	47.1
95°	76.5	91.2	94.1	94.1	91.2
97.5°	128.0	141.2	147.1	147.1	147.1
100°	186.8	198.6	203.0	203.0	201.5
102.5°	248.6	257.4	263.3	264.8	263.3
105°	316.2	320.6	323.6	326.5	326.5
107.5°	383.9	389.8	389.8	391.3	383.9
110°	448.6	457.4	457.4	457.4	453.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	519.2	528.0	526.6	522.2	519.2
115°	588.3	597.2	594.2	592.8	588.3
117.5°	657.5	669.2	661.9	657.5	653.1
120°	726.6	738.4	726.6	726.6	722.2
122.5°	789.9	804.6	797.2	792.8	789.9
125°	856.0	869.3	864.9	860.5	859.0
127.5°	920.8	936.9	931.1	925.2	920.8
130°	981.1	1000.2	997.2	994.3	988.4
132.5°	1048.7	1063.4	1064.9	1057.6	1053.1
135°	1107.6	1123.7	1126.7	1125.2	1120.8
137.5°	1172.3	1185.5	1188.5	1187.0	1181.1
140°	1229.6	1242.9	1250.2	1250.2	1244.4
142.5°	1288.5	1301.7	1306.1	1307.6	1301.7
145°	1344.4	1354.7	1363.5	1365.0	1359.1
147.5°	1394.4	1407.6	1413.5	1416.4	1410.6
150°	1445.9	1454.7	1460.6	1465.0	1460.6
152.5°	1491.5	1500.3	1507.6	1513.5	1507.6
155°	1537.1	1541.5	1545.9	1553.2	1548.8
157.5°	1576.8	1579.7	1582.7	1593.0	1585.6
160°	1612.1	1615.0	1616.5	1625.3	1619.4
162.5°	1644.4	1644.4	1645.9	1656.2	1648.8
165°	1672.4	1670.9	1670.9	1681.2	1673.8
167.5°	1697.4	1693.0	1693.0	1703.3	1695.9
170°	1716.5	1712.1	1710.6	1720.9	1712.1
172.5°	1729.7	1725.3	1723.9	1734.2	1725.3
175°	1740.0	1735.6	1732.7	1743.0	1734.2
177.5°	1745.9	1741.5	1738.6	1747.4	1738.6
180°	1743.0	1743.0	1743.0	1743.0	1743.0

(END OF REPORT)