

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: P1029183

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029183
REPORT IS A COMBINATION OF REPORTS P985071 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_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

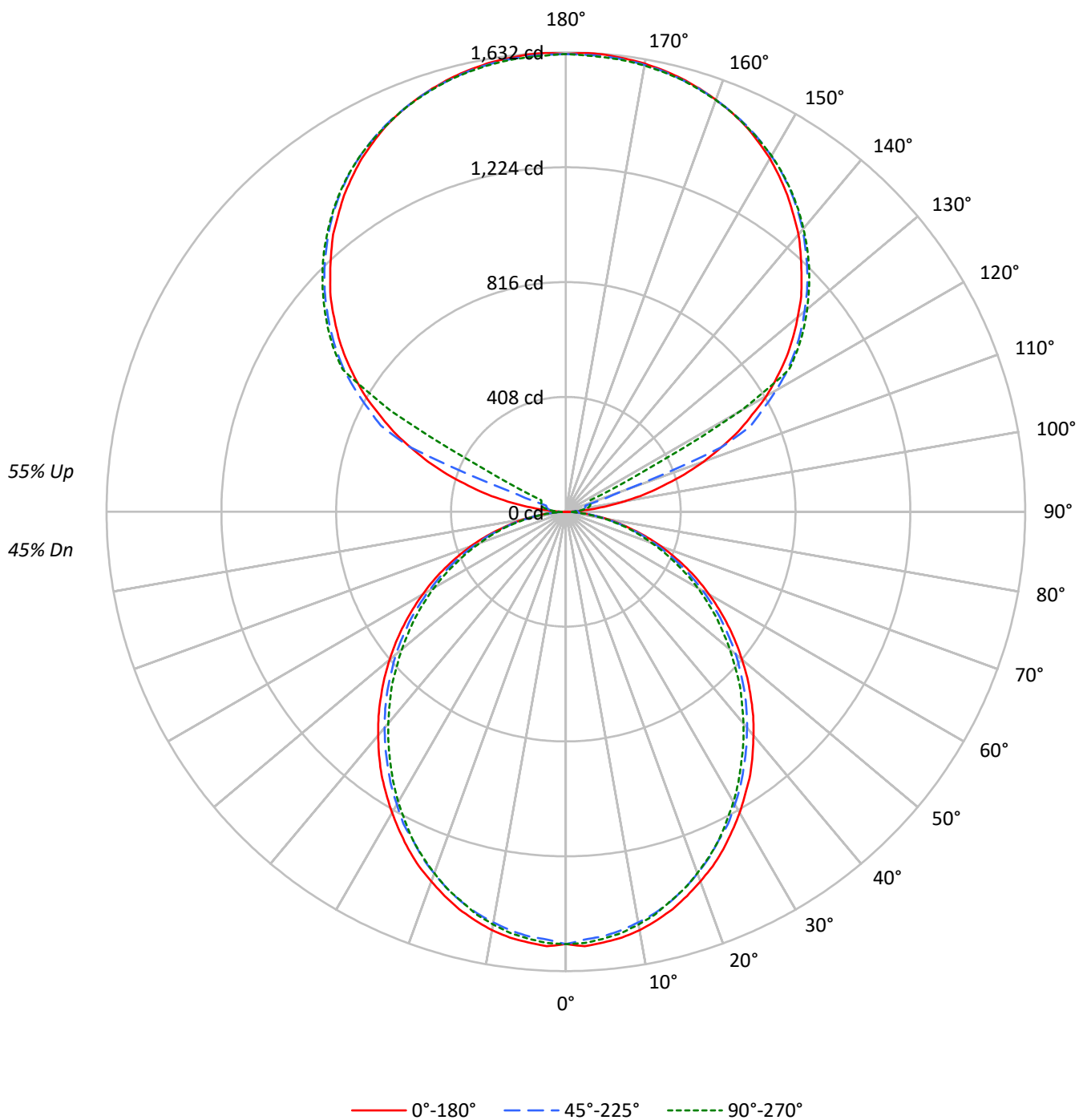
Lumens per Lamp: N/A
Luminaire Lumens: 8678.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52			45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	54	46	45	44			38
2	88	81	75	69	80	74	69	64	62	58	55	51	48	46	40	38	37			32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31			27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27			23
5	67	56	48	42	62	52	44	39	43	38	34	36	32	29	29	26	23			20
6	62	50	42	36	57	46	39	34	39	34	29	32	28	25	26	23	21			18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18			16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16			14
9	50	37	30	25	45	35	28	23	30	24	21	25	21	18	20	17	15			13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	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	1.7
10°-20°	406.8	4.7
20°-30°	597.8	6.9
30°-40°	694.3	8.0
40°-50°	693.4	8.0
50°-60°	604.6	7.0
60°-70°	446.9	5.2
70°-80°	252.9	2.9
80°-90°	69.6	0.8
90°-100°	53.6	0.6
100°-110°	199.9	2.3
110°-120°	530.1	6.1
120°-130°	879.2	10.1
130°-140°	934.0	10.8
140°-150°	868.0	10.0
150°-160°	697.9	8.0
160°-170°	449.7	5.2
170°-180°	154.8	1.8
0°-30°	1149.1	13.2
0°-40°	1843.4	21.2
0°-60°	3141.4	36.2
0°-90°	3910.9	45.1
90°-120°	783.6	9.0
90°-150°	3464.9	39.9
90°-180°	4767.0	54.9
0°-180°	8678.0	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	14	24	29	32	8
95°	76	38	46	52	51	91
105°	358	393	72	85	89	382
115°	677	697	726	181	96	666
125°	957	972	994	1002	1006	853
135°	1184	1202	1213	1225	1222	914
145°	1373	1372	1392	1400	1394	859
155°	1512	1501	1516	1523	1513	697
165°	1593	1586	1590	1598	1590	450
175°	1630	1621	1624	1632	1620	155
180°	1626	1626	1626	1626	1626	

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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	14.1	23.5	29.4	31.8
92.5°	29.4	24.7	28.2	30.6	31.8
95°	76.5	37.7	45.9	51.8	50.6
97.5°	137.7	41.2	60.0	63.5	64.7
100°	208.3	47.1	67.1	76.5	78.8
102.5°	285.9	283.6	69.4	82.4	85.9
105°	357.7	393.0	71.8	84.7	89.4
107.5°	441.2	470.6	74.1	87.1	91.8
110°	521.2	546.0	205.9	88.2	93.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	596.5	617.7	597.7	90.6	94.1
115°	676.6	696.6	726.0	181.2	96.5
117.5°	746.0	769.5	789.5	621.3	313.0
120°	823.6	841.3	862.5	876.6	717.7
122.5°	889.5	908.4	931.9	938.9	940.1
125°	956.6	971.9	994.2	1002.5	1006.0
127.5°	1017.8	1034.3	1051.9	1063.7	1064.8
130°	1075.4	1094.3	1107.2	1120.1	1119.0
132.5°	1134.3	1149.6	1162.5	1173.1	1171.9
135°	1183.7	1202.5	1213.1	1224.9	1222.5
137.5°	1235.5	1249.6	1261.3	1273.1	1269.6
140°	1286.1	1295.5	1308.4	1319.0	1313.1
142.5°	1328.4	1336.6	1351.9	1361.4	1355.5
145°	1373.1	1371.9	1391.9	1400.2	1394.3
147.5°	1411.9	1408.4	1428.4	1434.3	1429.6
150°	1449.6	1441.4	1460.2	1467.3	1461.4
152.5°	1481.4	1472.0	1489.6	1496.7	1488.4
155°	1512.0	1501.4	1515.5	1522.6	1513.1
157.5°	1536.7	1527.3	1537.8	1546.1	1536.7
160°	1557.9	1550.8	1557.9	1564.9	1556.7
162.5°	1576.7	1569.6	1575.5	1583.7	1573.1
165°	1593.1	1586.1	1589.6	1597.9	1589.6
167.5°	1606.1	1599.0	1602.6	1610.8	1600.2
170°	1616.7	1609.6	1612.0	1620.2	1609.6
172.5°	1623.7	1616.7	1619.0	1627.3	1616.7
175°	1629.6	1621.4	1623.7	1632.0	1620.2
177.5°	1632.0	1623.7	1624.9	1633.2	1622.6
180°	1626.1	1626.1	1626.1	1626.1	1626.1

(END OF REPORT)