

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: P1029170

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029170
REPORT IS A COMBINATION OF REPORTS P985053 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-D_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

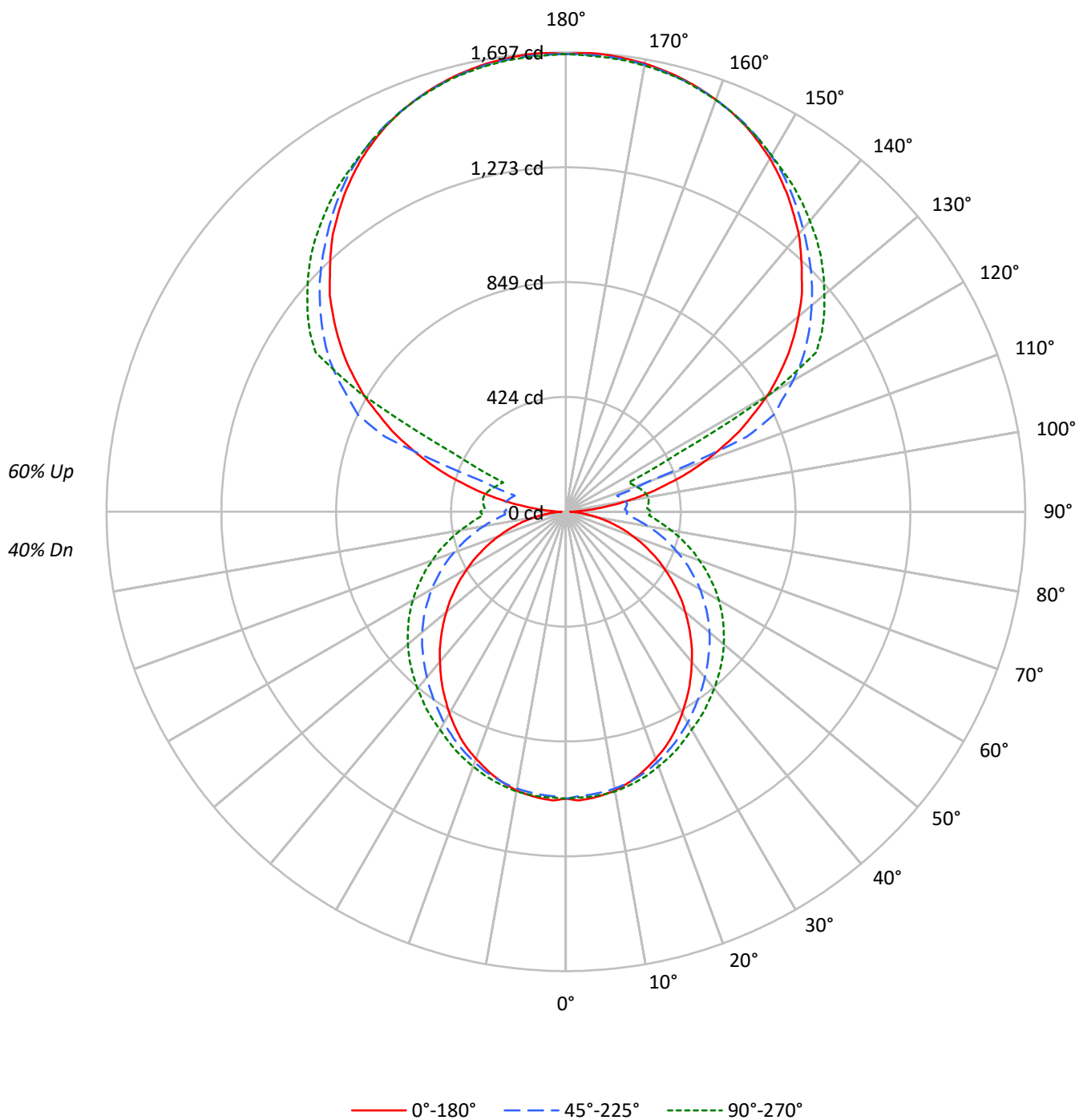
Lumens per Lamp: N/A
Luminaire Lumens: 9005.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47			40
1	94	90	85	81	86	81	78	74	66	64	61	52	51	49	40	38	37			31
2	85	77	71	65	77	71	65	60	57	53	50	45	42	40	34	32	30			25
3	78	68	60	54	70	62	55	50	50	45	41	40	36	33	30	27	25			21
4	71	60	51	45	64	54	47	42	44	39	35	35	31	28	26	24	21			17
5	65	53	45	38	58	48	41	35	39	34	30	31	27	24	24	21	18			15
6	60	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16			13
7	55	42	34	29	50	39	32	27	32	26	22	25	21	18	19	16	14			11
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	18	15	13			10
9	47	35	27	22	43	32	25	21	27	21	18	21	17	14	16	13	11			9
10	44	32	25	20	40	29	23	18	24	19	16	20	16	13	15	12	10			8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16776	16776	16776
5°	16852	16061	15970
10°	16739	15504	15278
15°	16503	14928	14568
20°	16206	14325	13895
25°	15911	13746	13284
30°	15499	13158	12680
35°	15081	12591	12236
40°	14643	12101	11794
45°	14224	11657	11410
50°	13774	11247	11030
55°	13302	10812	10643
60°	12723	10358	10237
65°	12122	9838	9768
70°	11442	9278	9266
75°	10567	8720	8791
80°	9197	8135	8300
85°	7811	7586	7873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14224 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.1
10°-20°	288.2	3.2
20°-30°	436.6	4.8
30°-40°	531.7	5.9
40°-50°	572.0	6.4
50°-60°	555.5	6.2
60°-70°	485.2	5.4
70°-80°	373.4	4.1
80°-90°	253.1	2.8
90°-100°	228.3	2.5
100°-110°	333.9	3.7
110°-120°	634.5	7.0
120°-130°	960.8	10.7
130°-140°	990.8	11.0
140°-150°	906.0	10.1
150°-160°	725.8	8.1
160°-170°	467.7	5.2
170°-180°	161.0	1.8
0°-30°	825.2	9.2
0°-40°	1356.9	15.1
0°-60°	2484.5	27.6
0°-90°	3596.1	39.9
90°-120°	1196.7	13.3
90°-150°	4054.4	45.0
90°-180°	5409.0	60.1
0°-180°	9005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1058	1049	1058	1057	101
15°	1014	1017	1017	1031	1029	286
25°	922	932	946	965	969	424
35°	794	820	849	883	894	496
45°	651	693	746	794	810	503
55°	499	554	634	690	710	447
65°	341	416	507	570	590	339
75°	189	275	373	439	459	200
85°	55	150	249	313	335	58
90°	17	119	227	295	316	15
95°	92	124	224	289	306	104
105°	380	461	207	274	296	406
115°	710	748	847	327	255	698
125°	998	1014	1086	1136	1154	891
135°	1233	1252	1279	1323	1333	953
145°	1428	1427	1448	1465	1467	894
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°	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1067.5	1062.9	1052.2	1059.8	1056.8
5°	1062.9	1058.3	1049.1	1058.3	1056.8
7.5°	1055.2	1052.2	1044.5	1055.2	1053.7
10°	1046.0	1042.9	1038.3	1050.6	1049.1
12.5°	1030.7	1032.2	1029.1	1041.4	1039.9
15°	1013.8	1016.8	1016.8	1030.7	1029.1
17.5°	992.3	998.4	1003.0	1016.8	1016.8
20°	970.8	978.4	984.6	1001.5	1001.5
22.5°	947.7	956.9	966.1	983.0	986.1
25°	921.6	932.4	946.2	964.6	969.2
27.5°	890.9	907.8	923.1	946.2	949.3
30°	860.2	880.1	900.1	924.7	929.3
32.5°	826.4	849.4	874.0	903.2	912.4
35°	794.1	820.2	849.4	883.2	894.0
37.5°	758.8	788.0	824.8	861.7	872.5
40°	723.5	757.3	798.7	838.7	852.5
42.5°	689.7	723.5	772.6	817.2	831.0
45°	651.3	692.7	746.5	794.1	809.5
47.5°	614.4	658.9	720.4	769.5	786.4
50°	576.0	623.6	692.7	745.0	761.9
52.5°	539.1	589.8	663.6	717.3	735.7
55°	499.2	554.5	634.4	689.7	709.6
57.5°	460.8	522.2	602.1	662.0	682.0
60°	419.3	485.4	572.9	631.3	652.8
62.5°	382.5	451.6	539.1	602.1	622.1
65°	341.0	416.3	506.9	569.9	589.8
67.5°	304.1	382.5	474.6	537.6	559.1
70°	264.2	344.1	439.3	505.3	523.8
72.5°	227.3	310.3	407.0	471.6	494.6
75°	188.9	274.9	373.3	439.3	459.3
77.5°	152.1	241.2	341.0	407.0	428.5
80°	115.2	208.9	308.7	373.3	394.8
82.5°	84.5	176.6	278.0	342.5	362.5
85°	55.3	150.5	248.8	313.3	334.8
87.5°	33.8	126.0	224.3	287.2	307.2
90°	16.6	119.1	227.3	294.8	315.6
92.5°	44.4	120.9	218.3	280.6	300.3
95°	91.8	123.7	224.3	288.8	306.0
97.5°	154.0	119.6	228.3	288.8	308.5
100°	227.4	116.5	223.4	289.9	309.3
102.5°	306.6	354.8	215.0	283.8	304.3
105°	379.7	460.9	206.7	274.0	295.8
107.5°	466.6	534.0	198.4	264.2	286.0
110°	548.2	604.7	326.3	253.1	274.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	626.5	673.2	723.1	244.7	265.3
115°	709.7	747.5	847.2	326.7	255.4
117.5°	780.5	817.2	902.5	773.6	468.3
120°	861.2	885.8	969.2	1026.9	878.6
122.5°	929.7	950.8	1032.2	1080.9	1096.1
125°	998.0	1013.9	1086.3	1136.3	1153.8
127.5°	1061.6	1077.2	1137.0	1187.7	1202.7
130°	1121.6	1139.6	1185.3	1235.7	1246.7
132.5°	1182.8	1197.1	1233.7	1280.0	1291.0
135°	1232.6	1252.2	1278.6	1323.1	1332.9
137.5°	1286.4	1301.1	1321.0	1362.5	1369.6
140°	1339.0	1347.3	1363.9	1399.4	1402.6
142.5°	1383.1	1390.2	1406.1	1434.3	1435.8
145°	1428.1	1426.9	1447.7	1465.4	1467.0
147.5°	1468.5	1464.8	1485.6	1493.2	1492.9
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)