

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: P1029200

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029200
REPORT IS A COMBINATION OF REPORTS P985143 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-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

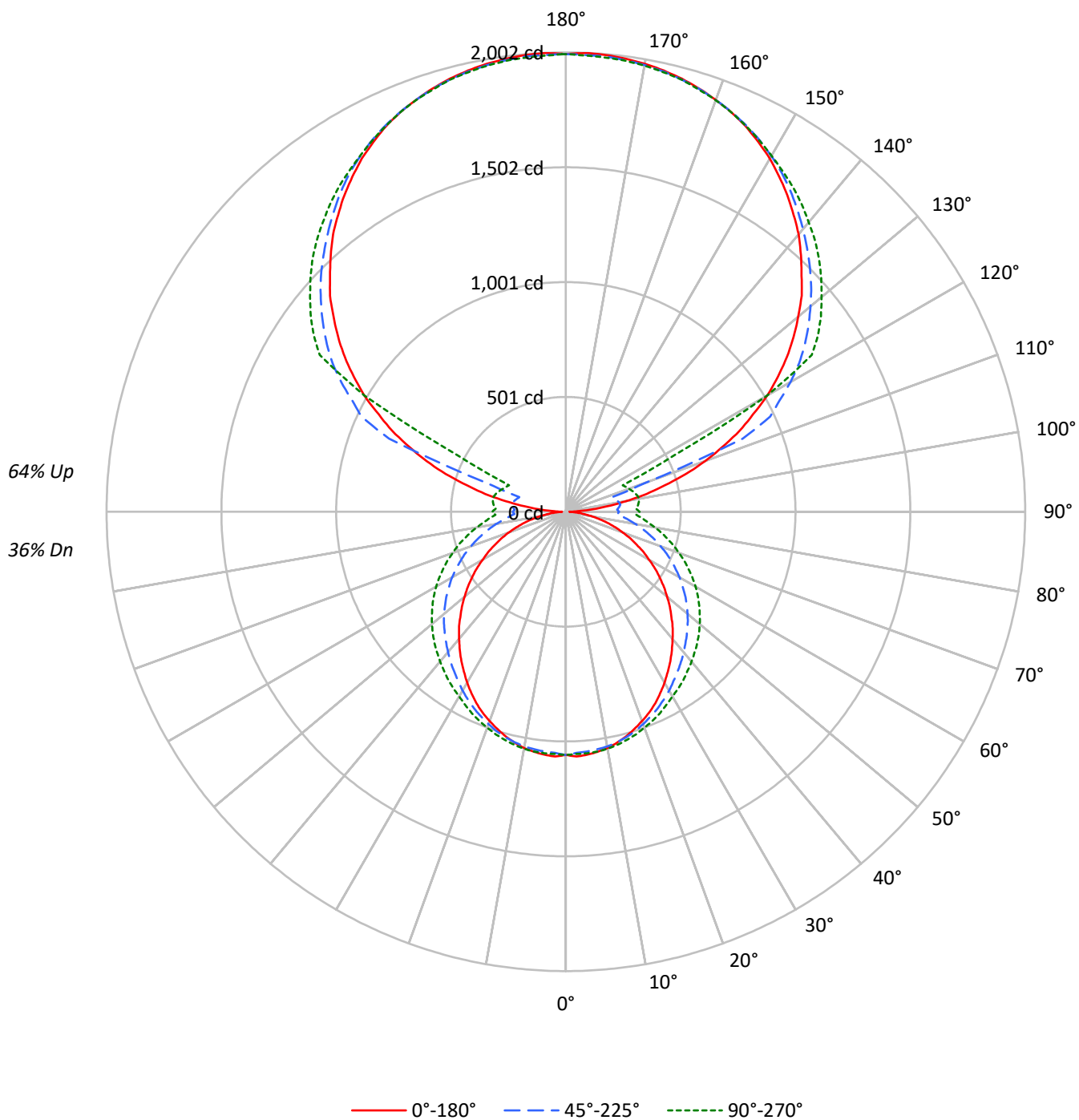
Lumens per Lamp: N/A
Luminaire Lumens: 9894.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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
RCR																	
0	104	104	104	104	94	94	94	94	76	76	76		59	59	59		44
1	94	89	85	81	84	80	77	74	65	62	60		50	48	47		37
2	85	77	71	65	76	70	64	59	56	52	49		43	41	38		32
3	77	67	60	54	69	61	54	49	49	44	40		38	35	32		28
4	70	59	51	45	63	54	47	41	43	38	34		34	30	27		25
5	64	53	44	38	58	48	40	35	39	33	29		30	26	23		22
6	59	47	39	33	53	43	35	30	35	29	25		27	23	20		20
7	55	42	34	29	49	38	31	26	31	26	22		24	20	18		18
8	50	38	30	25	45	35	28	23	28	23	19		22	18	15		17
9	47	35	27	22	42	32	25	20	26	21	17		20	17	14		15
10	44	32	24	20	39	29	23	18	24	19	15		19	15	12		14

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	1.0
10°-20°	288.2	2.9
20°-30°	436.6	4.4
30°-40°	531.7	5.4
40°-50°	572.0	5.8
50°-60°	555.5	5.6
60°-70°	485.2	4.9
70°-80°	373.4	3.8
80°-90°	253.6	2.6
90°-100°	238.3	2.4
100°-110°	371.1	3.8
110°-120°	733.3	7.4
120°-130°	1124.7	11.4
130°-140°	1164.9	11.8
140°-150°	1067.8	10.8
150°-160°	855.9	8.7
160°-170°	551.5	5.6
170°-180°	189.8	1.9
0°-30°	825.2	8.3
0°-40°	1356.9	13.7
0°-60°	2484.5	25.1
0°-90°	3596.7	36.4
90°-120°	1342.8	13.6
90°-150°	4700.1	47.5
90°-180°	6297.0	63.6
0°-180°	9894.0	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	122	232	300	322	16
95°	106	131	233	298	316	121
105°	446	534	220	290	312	477
115°	836	877	982	360	273	822
125°	1176	1195	1272	1323	1341	1050
135°	1453	1476	1505	1551	1561	1123
145°	1684	1683	1707	1726	1727	1054
155°	1854	1841	1859	1867	1856	854
165°	1954	1945	1950	1960	1950	552
175°	1999	1988	1991	2002	1987	190
180°	1994	1994	1994	1994	1994	

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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°	16.8	121.7	231.7	300.3	321.6
92.5°	49.9	125.5	223.5	286.3	306.3
95°	106.1	130.7	232.9	298.5	315.5
97.5°	179.6	127.3	239.5	300.6	320.6
100°	266.2	125.3	235.9	304.2	324.0
102.5°	359.9	407.7	227.9	299.1	320.3
105°	446.4	534.2	220.1	289.8	312.5
107.5°	548.8	621.7	212.2	280.4	303.1
110°	645.4	706.5	364.6	269.5	292.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	737.7	788.3	834.5	261.6	282.8
115°	835.8	877.3	982.5	360.4	273.4
117.5°	919.5	960.6	1049.7	889.4	526.6
120°	1014.7	1042.6	1129.9	1190.3	1012.3
122.5°	1095.5	1120.1	1205.9	1255.9	1271.3
125°	1176.3	1195.0	1271.6	1323.2	1341.3
127.5°	1251.3	1269.9	1333.1	1385.9	1401.1
130°	1322.0	1343.5	1391.7	1444.5	1455.2
132.5°	1394.2	1411.3	1450.3	1498.6	1509.5
135°	1453.2	1476.3	1504.7	1551.4	1560.7
137.5°	1516.7	1534.0	1556.1	1599.8	1606.2
140°	1578.7	1588.8	1607.7	1645.2	1647.3
142.5°	1630.7	1639.3	1658.0	1688.0	1688.5
145°	1684.0	1682.6	1707.1	1726.4	1726.9
147.5°	1731.6	1727.3	1751.8	1760.6	1759.4
150°	1777.8	1767.7	1790.8	1799.5	1792.2
152.5°	1816.8	1805.2	1826.9	1835.5	1825.4
155°	1854.3	1841.3	1858.6	1867.3	1855.7
157.5°	1884.6	1873.1	1886.0	1896.1	1884.6
160°	1910.6	1901.9	1910.6	1919.2	1909.1
162.5°	1933.7	1925.0	1932.2	1942.3	1929.3
165°	1953.9	1945.2	1949.5	1959.6	1949.5
167.5°	1969.7	1961.1	1965.4	1975.5	1962.5
170°	1982.7	1974.1	1977.0	1987.1	1974.1
172.5°	1991.4	1982.7	1985.6	1995.7	1982.7
175°	1998.6	1988.5	1991.4	2001.5	1987.1
177.5°	2001.5	1991.4	1992.8	2002.9	1989.9
180°	1994.3	1994.3	1994.3	1994.3	1994.3

(END OF REPORT)