

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: P1029201

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029201
REPORT IS A COMBINATION OF REPORTS P985144 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_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

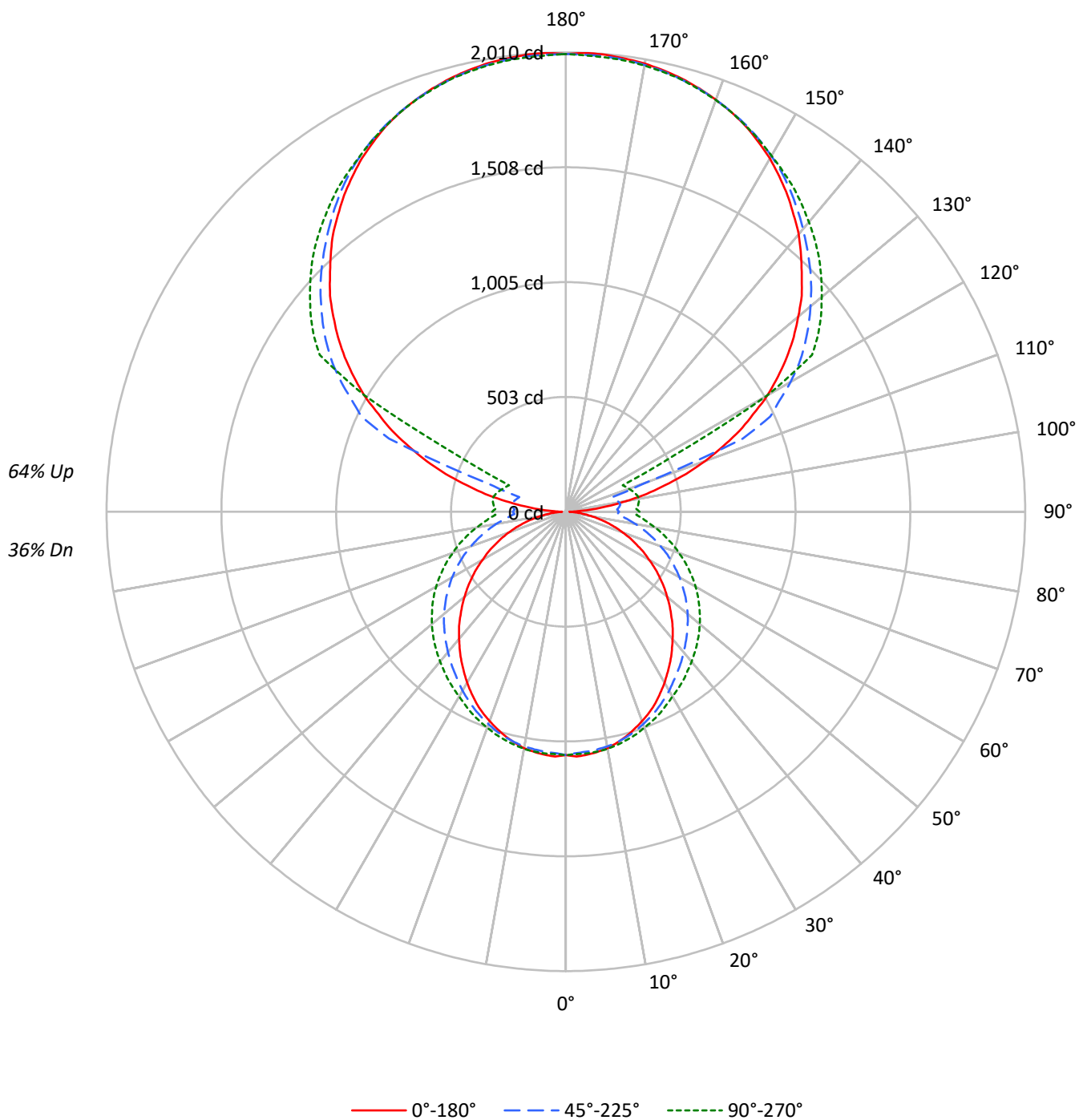
Lumens per Lamp: N/A
Luminaire Lumens: 9936.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	30	10	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	44	44	36
1	94	89	85	81	84	80	77	74	65	62	60	50	48	47	37	36	35	35	35	28
2	85	77	71	65	76	70	64	59	56	52	49	43	41	38	32	30	28	28	28	23
3	77	67	60	54	69	61	54	49	49	44	40	38	35	32	28	25	24	24	24	19
4	70	59	51	45	63	54	47	41	43	38	34	34	30	27	25	22	20	20	20	16
5	64	53	44	38	58	48	40	35	39	33	29	30	26	23	22	19	17	17	17	14
6	59	47	39	33	53	43	35	30	35	29	25	27	23	20	20	17	15	15	15	12
7	55	42	34	29	49	38	31	26	31	26	22	24	20	18	18	15	13	13	13	10
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	17	14	12	12	12	9
9	47	35	27	22	42	32	25	20	26	21	17	20	17	14	15	13	11	11	11	8
10	44	32	24	20	39	29	23	18	24	19	15	19	15	12	14	11	10	10	10	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16847	16847	16847
5°	16924	16128	16037
10°	16809	15569	15342
15°	16572	14992	14631
20°	16273	14385	13954
25°	15978	13805	13340
30°	15564	13214	12733
35°	15146	12644	12286
40°	14704	12153	11844
45°	14283	11705	11458
50°	13832	11295	11076
55°	13358	10856	10688
60°	12778	10401	10279
65°	12172	9879	9810
70°	11489	9316	9305
75°	10612	8755	8828
80°	9237	8169	8334
85°	7840	7620	7908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14283 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.0
10°-20°	289.4	2.9
20°-30°	438.5	4.4
30°-40°	533.9	5.4
40°-50°	574.5	5.8
50°-60°	557.9	5.6
60°-70°	487.2	4.9
70°-80°	375.0	3.8
80°-90°	254.7	2.6
90°-100°	239.3	2.4
100°-110°	372.7	3.8
110°-120°	736.5	7.4
120°-130°	1129.5	11.4
130°-140°	1169.8	11.8
140°-150°	1072.4	10.8
150°-160°	859.5	8.7
160°-170°	553.8	5.6
170°-180°	190.6	1.9
0°-30°	828.7	8.3
0°-40°	1362.6	13.7
0°-60°	2495.0	25.1
0°-90°	3611.8	36.4
90°-120°	1348.5	13.6
90°-150°	4720.2	47.5
90°-180°	6324.0	63.6
0°-180°	9936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1067	1063	1054	1063	1061	101
15°	1018	1021	1021	1035	1034	287
25°	926	936	950	969	973	426
35°	798	824	853	887	898	498
45°	654	696	750	798	813	505
55°	501	557	637	693	713	448
65°	342	418	509	572	592	340
75°	190	276	375	441	461	201
85°	56	151	250	315	336	59
90°	17	122	233	302	323	16
95°	106	131	234	300	317	121
105°	448	536	221	291	314	480
115°	840	881	987	362	275	826
125°	1181	1200	1277	1329	1347	1054
135°	1459	1483	1511	1558	1567	1128
145°	1691	1690	1714	1734	1734	1058
155°	1862	1849	1867	1875	1864	858
165°	1962	1954	1958	1968	1958	554
175°	2007	1997	2000	2010	1996	191
180°	2003	2003	2003	2003	2003	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1072.0	1067.4	1056.6	1064.3	1061.2
5°	1067.4	1062.8	1053.5	1062.8	1061.2
7.5°	1059.7	1056.6	1048.9	1059.7	1058.1
10°	1050.4	1047.3	1042.7	1055.0	1053.5
12.5°	1035.0	1036.5	1033.5	1045.8	1044.2
15°	1018.0	1021.1	1021.1	1035.0	1033.5
17.5°	996.4	1002.6	1007.2	1021.1	1021.1
20°	974.8	982.6	988.7	1005.7	1005.7
22.5°	951.7	961.0	970.2	987.2	990.3
25°	925.5	936.3	950.2	968.7	973.3
27.5°	894.6	911.6	927.0	950.2	953.2
30°	863.8	883.8	903.9	928.6	933.2
32.5°	829.8	853.0	877.7	907.0	916.2
35°	797.5	823.7	853.0	886.9	897.7
37.5°	762.0	791.3	828.3	865.3	876.1
40°	726.5	760.4	802.1	842.2	856.1
42.5°	692.6	726.5	775.9	820.6	834.5
45°	654.0	695.7	749.6	797.5	812.9
47.5°	617.0	661.7	723.4	772.8	789.7
50°	578.4	626.2	695.7	748.1	765.1
52.5°	541.4	592.3	666.3	720.3	738.8
55°	501.3	556.8	637.0	692.6	712.6
57.5°	462.7	524.4	604.6	664.8	684.9
60°	421.1	487.4	575.3	634.0	655.5
62.5°	384.1	453.5	541.4	604.6	624.7
65°	342.4	418.0	509.0	572.3	592.3
67.5°	305.4	384.1	476.6	539.9	561.5
70°	265.3	345.5	441.1	507.5	526.0
72.5°	228.3	311.6	408.8	473.5	496.7
75°	189.7	276.1	374.8	441.1	461.2
77.5°	152.7	242.2	342.4	408.8	430.3
80°	115.7	209.8	310.0	374.8	396.4
82.5°	84.8	177.4	279.2	344.0	364.0
85°	55.5	151.2	249.9	314.7	336.3
87.5°	33.9	126.5	225.2	288.4	308.5
90°	16.8	122.3	232.6	301.5	322.9
92.5°	50.1	126.0	224.5	287.6	307.5
95°	106.5	131.2	233.9	299.8	316.8
97.5°	180.4	127.8	240.5	302.0	321.9
100°	267.3	125.9	236.8	305.5	325.4
102.5°	361.5	409.5	228.9	300.4	321.7
105°	448.3	536.4	221.1	290.9	313.7
107.5°	551.1	624.4	213.2	281.5	304.3
110°	648.2	709.4	366.2	270.7	293.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	740.9	791.6	838.0	262.8	284.0
115°	839.5	881.0	986.7	362.0	274.6
117.5°	923.4	964.8	1054.2	893.2	528.9
120°	1019.0	1047.0	1134.8	1195.4	1016.7
122.5°	1100.2	1125.0	1211.0	1261.4	1276.7
125°	1181.3	1200.1	1277.0	1328.8	1347.1
127.5°	1256.7	1275.3	1338.8	1391.9	1407.1
130°	1327.7	1349.3	1397.6	1450.6	1461.5
132.5°	1400.1	1417.4	1456.5	1505.0	1515.9
135°	1459.4	1482.6	1511.1	1558.0	1567.4
137.5°	1523.2	1540.5	1562.8	1606.6	1613.1
140°	1585.5	1595.6	1614.6	1652.3	1654.3
142.5°	1637.6	1646.3	1665.1	1695.2	1695.7
145°	1691.2	1689.8	1714.4	1733.8	1734.3
147.5°	1739.0	1734.7	1759.3	1768.1	1767.0
150°	1785.4	1775.3	1798.5	1807.1	1799.9
152.5°	1824.5	1812.9	1834.7	1843.4	1833.2
155°	1862.2	1849.2	1866.6	1875.3	1863.7
157.5°	1892.7	1881.1	1894.1	1904.2	1892.7
160°	1918.7	1910.0	1918.7	1927.4	1917.3
162.5°	1941.9	1933.2	1940.5	1950.6	1937.6
165°	1962.2	1953.5	1957.9	1968.0	1957.9
167.5°	1978.2	1969.5	1973.8	1983.9	1970.9
170°	1991.2	1982.5	1985.4	1995.5	1982.5
172.5°	1999.9	1991.2	1994.1	2004.2	1991.2
175°	2007.1	1997.0	1999.9	2010.0	1995.5
177.5°	2010.0	1999.9	2001.3	2011.5	1998.4
180°	2002.8	2002.8	2002.8	2002.8	2002.8

(END OF REPORT)