

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: P1029166

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029166
REPORT IS A COMBINATION OF REPORTS P985044 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-D1_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

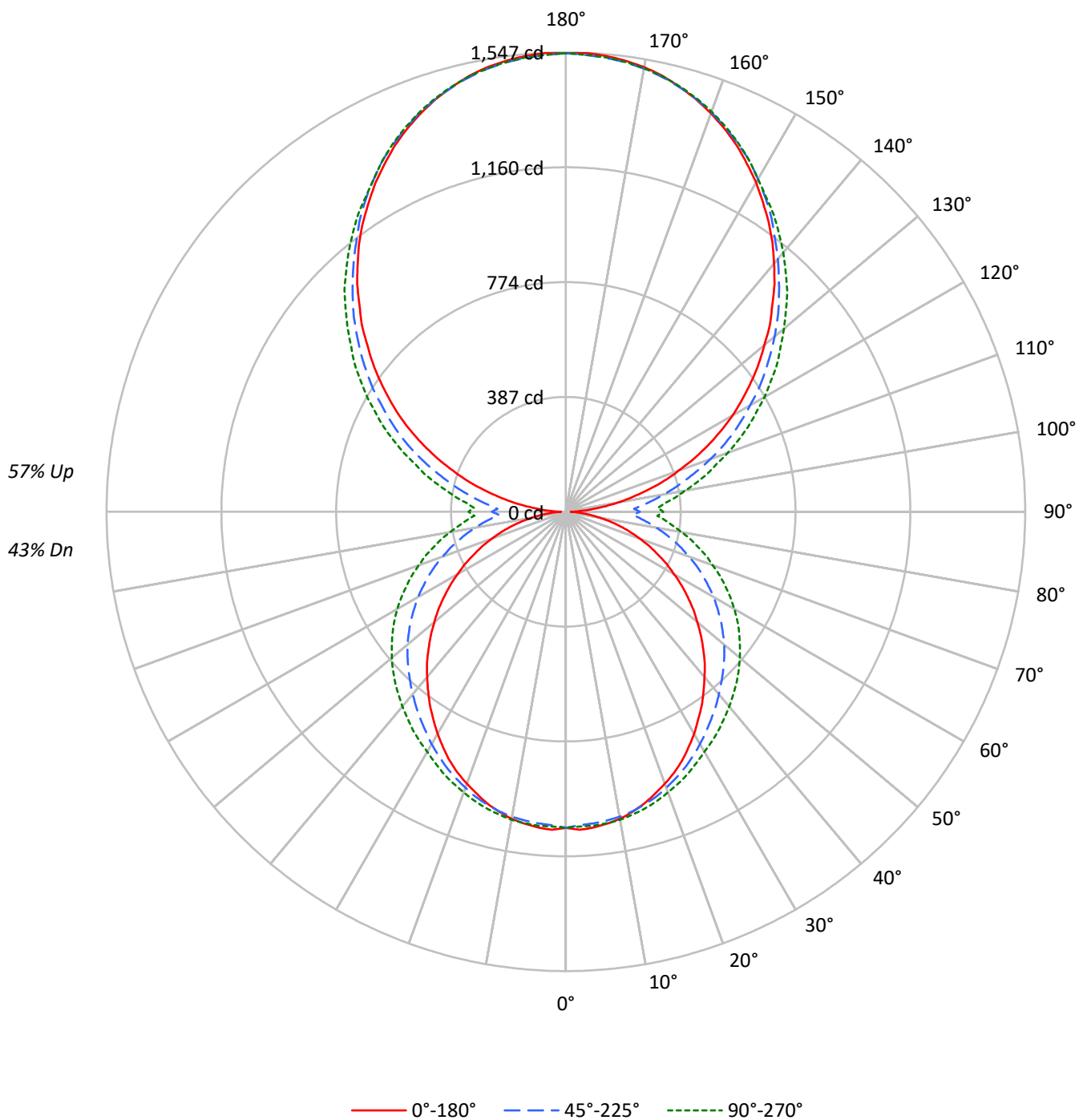
Lumens per Lamp: N/A
Luminaire Lumens: 8382.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	106	106	106	106	96	96	96	96	80	80	80		64	64	64		50
1	95	90	86	82	86	82	79	75	68	65	63		54	52	51		42
2	86	78	71	66	78	71	65	61	59	54	51		47	44	41		36
3	78	68	60	54	71	62	55	50	51	46	42		41	37	34		32
4	71	60	52	45	65	55	48	42	45	40	35		36	32	29		28
5	65	53	45	39	59	49	41	36	40	35	30		32	28	25		25
6	60	47	39	33	54	44	36	31	36	30	26		29	25	22		23
7	55	43	35	29	50	39	32	27	33	27	23		26	22	19		21
8	51	39	31	25	47	36	29	24	30	24	20		24	20	17		19
9	48	35	28	22	43	32	26	21	27	22	18		22	18	15		17
10	44	32	25	20	40	30	23	19	25	20	16		20	16	13		16

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	1.2
10°-20°	289.4	3.5
20°-30°	438.5	5.2
30°-40°	533.9	6.4
40°-50°	574.5	6.9
50°-60°	557.9	6.7
60°-70°	487.2	5.8
70°-80°	375.0	4.5
80°-90°	255.5	3.0
90°-100°	268.8	3.2
100°-110°	430.2	5.1
110°-120°	603.1	7.2
120°-130°	729.8	8.7
130°-140°	786.5	9.4
140°-150°	755.4	9.0
150°-160°	630.9	7.5
160°-170°	418.4	5.0
170°-180°	146.2	1.7
0°-30°	828.7	9.9
0°-40°	1362.6	16.3
0°-60°	2495.0	29.8
0°-90°	3612.7	43.1
90°-120°	1302.0	15.5
90°-150°	3573.8	42.6
90°-180°	4769.0	56.9
0°-180°	8382.0	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	249	308	328	15
95°	80	166	261	319	335	85
105°	288	336	419	476	493	305
115°	527	552	619	664	677	521
125°	761	773	818	856	869	681
135°	983	997	1015	1046	1054	760
145°	1191	1200	1208	1218	1221	744
155°	1362	1366	1369	1376	1372	627
165°	1481	1480	1480	1489	1483	418
175°	1541	1537	1535	1544	1536	146
180°	1544	1544	1544	1544	1544	

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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°	16.7	121.8	249.2	308.3	328.1
92.5°	42.6	134.7	230.1	291.6	310.1
95°	80.1	165.6	260.8	319.4	335.3
97.5°	124.2	202.2	296.9	354.0	372.5
100°	176.3	243.8	334.0	391.1	406.8
102.5°	229.5	288.2	376.6	433.5	449.1
105°	287.8	336.4	419.3	475.8	492.8
107.5°	347.8	390.0	467.2	520.9	531.4
110°	403.6	442.2	517.8	567.2	580.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	466.1	498.5	568.2	613.7	628.0
115°	527.4	552.1	618.9	663.9	677.0
117.5°	587.0	609.8	668.1	710.4	721.9
120°	648.2	664.9	716.1	759.3	772.4
122.5°	704.3	718.9	769.4	807.2	818.5
125°	761.4	773.1	818.5	856.3	868.9
127.5°	818.7	831.5	867.9	901.3	911.2
130°	872.1	887.5	917.3	951.8	958.9
132.5°	932.1	943.5	968.0	997.0	1005.4
135°	982.6	996.9	1015.0	1046.1	1054.5
137.5°	1039.9	1051.7	1062.1	1090.1	1095.6
140°	1090.7	1101.0	1110.6	1135.3	1139.3
142.5°	1142.9	1153.1	1157.0	1176.8	1179.3
145°	1190.9	1200.0	1207.8	1218.4	1220.9
147.5°	1235.2	1246.9	1252.1	1256.2	1255.7
150°	1280.8	1288.6	1293.8	1297.7	1293.8
152.5°	1321.2	1329.0	1335.5	1340.7	1335.5
155°	1361.5	1365.5	1369.4	1375.9	1372.0
157.5°	1396.7	1399.3	1401.9	1411.1	1404.5
160°	1428.0	1430.6	1431.9	1439.7	1434.5
162.5°	1456.7	1456.7	1458.0	1467.1	1460.6
165°	1481.4	1480.1	1480.1	1489.2	1482.7
167.5°	1503.6	1499.7	1499.7	1508.8	1502.3
170°	1520.5	1516.6	1515.3	1524.4	1516.6
172.5°	1532.2	1528.3	1527.0	1536.1	1528.3
175°	1541.3	1537.4	1534.8	1544.0	1536.1
177.5°	1546.6	1542.7	1540.0	1547.9	1540.0
180°	1544.0	1544.0	1544.0	1544.0	1544.0

(END OF REPORT)