

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: P1029261

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029261
REPORT IS A COMBINATION OF REPORTS P985324 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D710UB2750-4F0-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

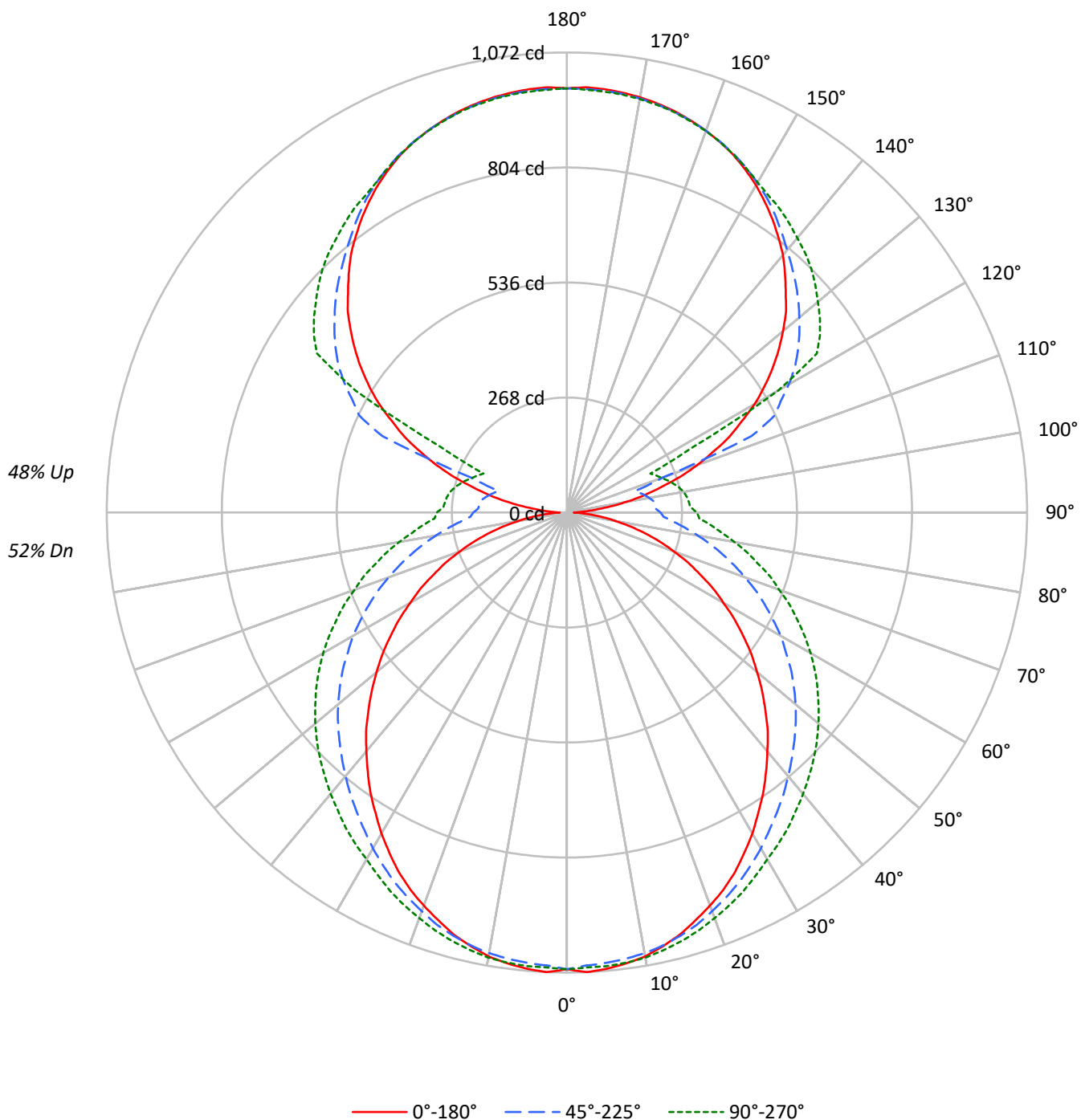
Lumens per Lamp: N/A
Luminaire Lumens: 6960.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 84.5
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
RCR																	
0	108	108	108	108	99	99	99	99	84	84	84	71	71	71	58	58	58
1	97	92	87	83	89	85	81	77	72	69	66	60	58	56	49	47	46
2	87	79	72	67	80	73	67	62	62	57	53	52	48	45	42	39	37
3	79	69	61	55	73	64	57	51	54	49	44	45	41	38	37	34	31
4	72	61	52	46	66	56	49	43	48	42	37	40	35	32	32	29	26
5	66	54	45	39	61	50	42	37	43	36	32	36	31	27	29	26	23
6	61	48	40	34	56	45	37	32	38	32	28	32	27	24	26	23	20
7	56	43	35	29	52	40	33	28	35	29	24	29	24	21	24	20	17
8	52	39	31	26	48	37	29	24	31	26	21	27	22	18	22	18	16
9	49	36	28	23	45	33	26	22	29	23	19	24	20	16	20	17	14
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	19	15	13

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	1.4
10°-20°	289.4	4.2
20°-30°	438.5	6.3
30°-40°	533.9	7.7
40°-50°	574.5	8.3
50°-60°	557.9	8.0
60°-70°	487.2	7.0
70°-80°	375.0	5.4
80°-90°	252.9	3.6
90°-100°	205.9	3.0
100°-110°	248.0	3.6
110°-120°	405.7	5.8
120°-130°	580.9	8.3
130°-140°	587.2	8.4
140°-150°	530.8	7.6
150°-160°	424.1	6.1
160°-170°	273.3	3.9
170°-180°	94.1	1.4
0°-30°	828.7	11.9
0°-40°	1362.6	19.6
0°-60°	2495.0	35.8
0°-90°	3610.0	51.9
90°-120°	859.6	12.4
90°-150°	2558.5	36.8
90°-180°	3350.0	48.1
0°-180°	6960.0	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°	16	114	218	283	303	13
95°	59	108	205	268	285	65
105°	225	291	176	238	258	241
115°	417	446	534	249	214	410
125°	584	594	657	703	719	522
135°	721	732	754	794	805	557
145°	834	834	846	860	864	522
155°	919	912	921	925	920	423
165°	968	964	966	971	966	274
175°	990	985	987	992	985	94
180°	988	988	988	988	988	

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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°	16.1	113.5	217.9	283.2	303.1
92.5°	31.8	110.6	206.9	268.5	287.7
95°	58.8	107.7	205.3	267.5	285.2
97.5°	94.5	102.1	203.1	262.3	281.5
100°	137.4	96.5	195.0	257.8	276.2
102.5°	183.1	232.5	185.6	249.1	268.1
105°	225.1	291.2	176.3	238.1	257.9
107.5°	275.9	330.7	167.0	227.2	247.1
110°	323.0	368.8	237.7	215.6	235.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	368.8	406.2	465.1	206.3	225.3
115°	417.4	446.4	533.7	248.9	214.4
117.5°	458.0	484.7	561.6	505.6	333.6
120°	505.2	522.1	596.7	648.5	568.9
122.5°	545.2	558.3	629.6	675.6	690.2
125°	584.5	593.8	656.7	703.4	719.4
127.5°	621.7	630.1	682.5	728.3	742.8
130°	656.7	666.5	706.8	751.8	763.4
132.5°	692.5	700.2	731.2	773.2	784.7
135°	720.9	732.3	754.3	793.8	804.7
137.5°	752.4	760.9	775.9	812.3	821.0
140°	783.1	787.3	798.3	829.4	835.1
142.5°	808.8	812.4	821.7	845.9	850.0
145°	834.5	833.8	846.0	860.3	864.4
147.5°	858.1	856.0	868.1	873.2	875.0
150°	881.0	876.0	887.4	891.7	888.2
152.5°	900.3	894.6	905.3	909.6	904.6
155°	918.9	912.5	921.1	925.3	919.6
157.5°	933.9	928.2	934.6	939.6	933.9
160°	946.8	942.5	946.8	951.1	946.1
162.5°	958.2	953.9	957.5	962.5	956.1
165°	968.2	964.0	966.1	971.1	966.1
167.5°	976.1	971.8	974.0	979.0	972.5
170°	982.5	978.3	979.7	984.7	978.3
172.5°	986.8	982.5	984.0	989.0	982.5
175°	990.4	985.4	986.8	991.8	984.7
177.5°	991.8	986.8	987.6	992.6	986.1
180°	988.3	988.3	988.3	988.3	988.3

(END OF REPORT)