

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: P1029263

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029263
REPORT IS A COMBINATION OF REPORTS P985326 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_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

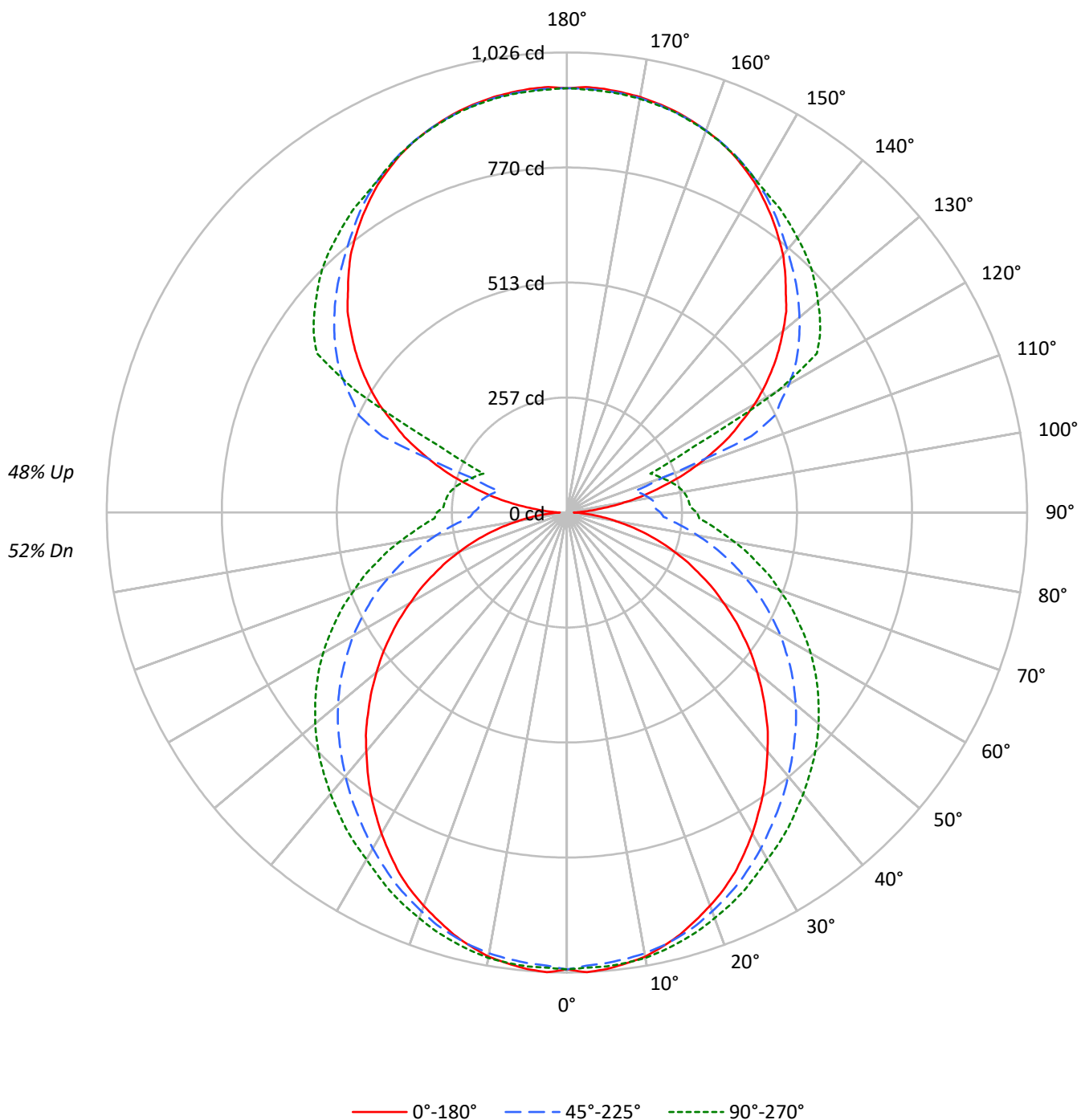
Lumens per Lamp: N/A
Luminaire Lumens: 6664.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1029263

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D_5000K

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°	16130	16130	16130
5°	16202	15441	15354
10°	16094	14906	14688
15°	15867	14353	14006
20°	15580	13772	13358
25°	15298	13216	12771
30°	14901	12651	12190
35°	14500	12105	11764
40°	14078	11634	11339
45°	13674	11207	10970
50°	13243	10813	10604
55°	12787	10395	10233
60°	12235	9958	9842
65°	11653	9457	9392
70°	11000	8921	8909
75°	10159	8383	8452
80°	8846	7821	7978
85°	7515	7294	7570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13674 cd/sqm

TEST NUMBER: P1029263

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.4
10°-20°	277.0	4.2
20°-30°	419.8	6.3
30°-40°	511.2	7.7
40°-50°	550.0	8.3
50°-60°	534.1	8.0
60°-70°	466.4	7.0
70°-80°	359.0	5.4
80°-90°	242.1	3.6
90°-100°	197.1	3.0
100°-110°	237.5	3.6
110°-120°	388.5	5.8
120°-130°	556.2	8.3
130°-140°	562.2	8.4
140°-150°	508.3	7.6
150°-160°	406.1	6.1
160°-170°	261.7	3.9
170°-180°	90.1	1.4
0°-30°	793.4	11.9
0°-40°	1304.6	19.6
0°-60°	2388.7	35.8
0°-90°	3456.2	51.9
90°-120°	823.0	12.4
90°-150°	2449.9	36.8
90°-180°	3208.0	48.1
0°-180°	6664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1022	1018	1009	1018	1016	97
15°	975	978	978	991	989	275
25°	886	896	910	927	932	407
35°	764	789	817	849	860	477
45°	626	666	718	764	778	483
55°	480	533	610	663	682	429
65°	328	400	487	548	567	326
75°	182	264	359	422	442	192
85°	53	145	239	301	322	56
90°	16	109	209	271	290	13
95°	56	103	196	256	273	62
105°	216	279	169	228	247	231
115°	400	428	511	238	205	393
125°	560	569	629	674	689	500
135°	690	701	722	760	771	534
145°	799	798	810	824	828	500
155°	880	874	882	886	881	405
165°	927	923	925	930	925	262
175°	948	944	945	950	943	90
180°	946	946	946	946	946	

TEST NUMBER: P1029263

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1026.3	1021.9	1011.6	1019.0	1016.0
5°	1021.9	1017.5	1008.6	1017.5	1016.0
7.5°	1014.5	1011.6	1004.2	1014.5	1013.1
10°	1005.7	1002.7	998.3	1010.1	1008.6
12.5°	990.9	992.4	989.4	1001.2	999.8
15°	974.7	977.6	977.6	990.9	989.4
17.5°	954.0	959.9	964.3	977.6	977.6
20°	933.3	940.7	946.6	962.8	962.8
22.5°	911.2	920.0	928.9	945.1	948.1
25°	886.1	896.4	909.7	927.4	931.8
27.5°	856.5	872.8	887.5	909.7	912.6
30°	827.0	846.2	865.4	889.0	893.4
32.5°	794.5	816.6	840.3	868.3	877.2
35°	763.5	788.6	816.6	849.1	859.5
37.5°	729.5	757.6	793.0	828.5	838.8
40°	695.6	728.0	767.9	806.3	819.6
42.5°	663.1	695.6	742.8	785.6	798.9
45°	626.1	666.0	717.7	763.5	778.3
47.5°	590.7	633.5	692.6	739.9	756.1
50°	553.8	599.6	666.0	716.2	732.5
52.5°	518.3	567.1	638.0	689.6	707.4
55°	479.9	533.1	609.9	663.1	682.3
57.5°	443.0	502.1	578.9	636.5	655.7
60°	403.2	466.7	550.8	606.9	627.6
62.5°	367.7	434.2	518.3	578.9	598.1
65°	327.8	400.2	487.3	547.9	567.1
67.5°	292.4	367.7	456.3	516.9	537.5
70°	254.0	330.8	422.4	485.9	503.6
72.5°	218.6	298.3	391.3	453.4	475.5
75°	181.6	264.3	358.9	422.4	441.6
77.5°	146.2	231.9	327.8	391.3	412.0
80°	110.8	200.8	296.8	358.9	379.5
82.5°	81.2	169.8	267.3	329.3	348.5
85°	53.2	144.7	239.2	301.3	321.9
87.5°	32.5	121.1	215.6	276.2	295.4
90°	15.5	108.6	208.6	271.1	290.2
92.5°	30.4	106.0	198.0	257.0	275.5
95°	56.3	103.1	196.5	256.0	273.1
97.5°	90.4	97.8	194.4	251.1	269.6
100°	131.5	92.4	186.7	246.8	264.5
102.5°	175.3	222.6	177.7	238.4	256.7
105°	215.6	278.9	168.8	228.0	246.9
107.5°	264.2	316.7	159.8	217.6	236.5
110°	309.2	353.1	227.6	206.5	225.4

TEST NUMBER: P1029263

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.1	389.0	445.4	197.4	215.8
115°	399.6	427.6	511.1	238.4	205.4
117.5°	438.5	464.0	537.8	484.2	319.4
120°	483.7	499.9	571.3	620.9	544.7
122.5°	522.1	534.5	602.8	646.8	660.8
125°	559.7	568.6	628.8	673.5	688.9
127.5°	595.3	603.4	653.5	697.3	711.3
130°	628.9	638.3	676.9	719.8	730.9
132.5°	663.1	670.5	700.1	740.3	751.4
135°	690.4	701.3	722.2	760.1	770.6
137.5°	720.5	728.7	743.0	777.8	786.2
140°	749.9	753.9	764.5	794.2	799.6
142.5°	774.6	777.9	786.8	810.0	813.9
145°	799.1	798.4	810.1	823.8	827.6
147.5°	821.7	819.7	831.3	836.2	837.9
150°	843.6	838.8	849.8	853.9	850.5
152.5°	862.1	856.6	866.9	871.0	866.2
155°	879.9	873.8	882.0	886.1	880.6
157.5°	894.3	888.8	895.0	899.8	894.3
160°	906.6	902.5	906.6	910.7	905.9
162.5°	917.6	913.5	916.9	921.7	915.5
165°	927.2	923.1	925.1	929.9	925.1
167.5°	934.7	930.6	932.6	937.4	931.3
170°	940.9	936.8	938.1	942.9	936.8
172.5°	945.0	940.9	942.2	947.0	940.9
175°	948.4	943.6	945.0	949.8	942.9
177.5°	949.8	945.0	945.7	950.4	944.3
180°	946.3	946.3	946.3	946.3	946.3

(END OF REPORT)