

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: P1029255

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029255
REPORT IS A COMBINATION OF REPORTS P985313 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-D1_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

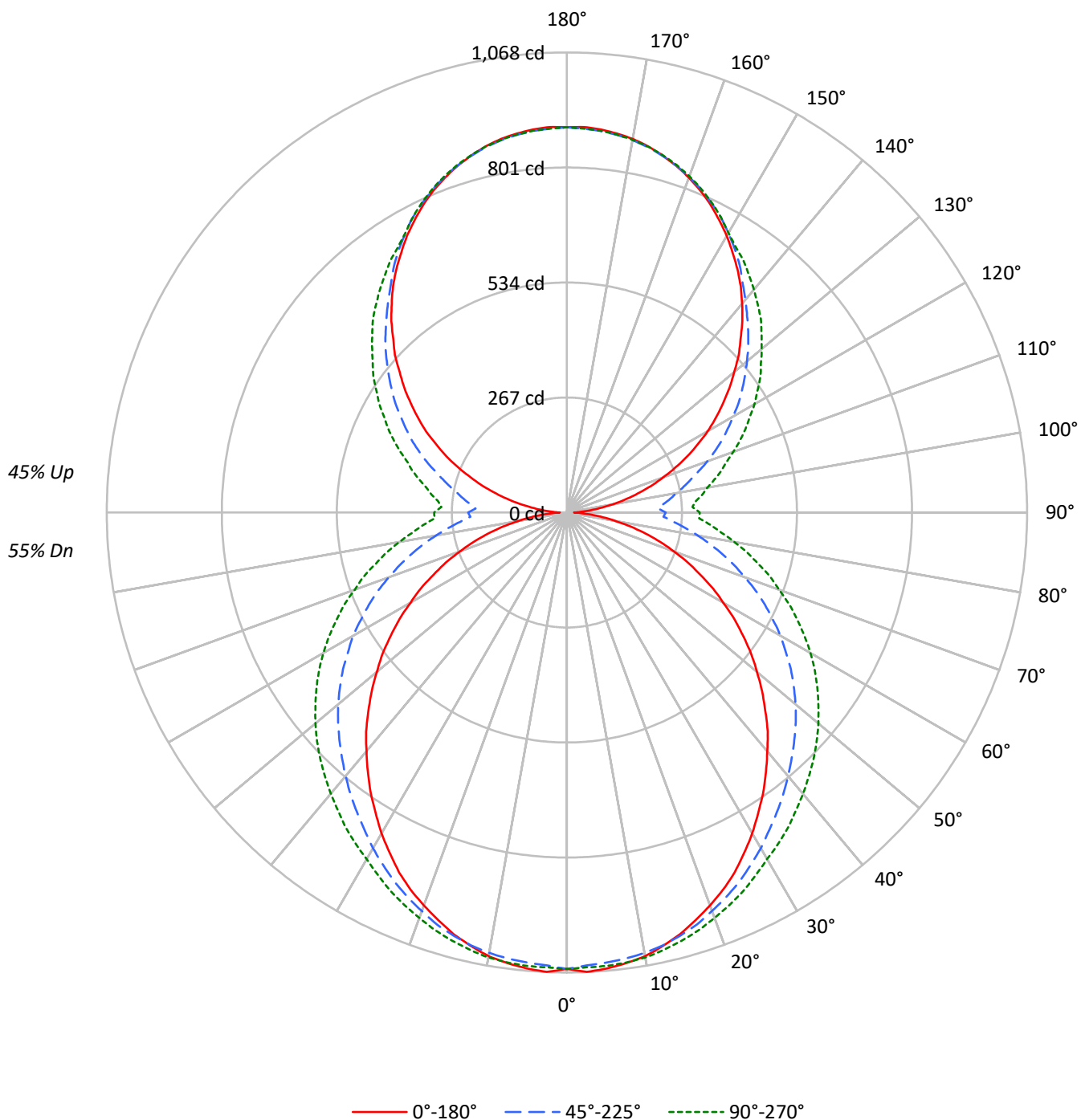
Lumens per Lamp: N/A
Luminaire Lumens: 6547.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1029255

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_3000K

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61			55
1	97	92	88	84	90	86	82	78	73	70	67	62	59	57	51	49	48			43
2	88	80	73	67	81	74	68	63	63	58	54	53	50	47	44	41	39			35
3	80	69	61	55	73	64	57	52	55	50	45	46	42	39	38	35	33			29
4	73	61	53	46	67	57	49	43	49	43	38	41	36	33	34	31	28			24
5	67	54	46	39	61	50	43	37	43	37	32	37	32	28	30	27	24			21
6	61	48	40	34	56	45	37	32	39	33	28	33	28	24	28	24	21			18
7	57	44	35	29	52	41	33	28	35	29	25	30	25	21	25	21	18			16
8	52	40	31	26	48	37	30	25	32	26	22	27	23	19	23	19	16			14
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	15			12
10	46	33	26	21	42	31	24	20	27	21	17	23	19	15	20	16	13			11

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

TEST NUMBER: P1029255

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.5
10°-20°	288.2	4.4
20°-30°	436.6	6.7
30°-40°	531.7	8.1
40°-50°	572.0	8.7
50°-60°	555.5	8.5
60°-70°	485.2	7.4
70°-80°	373.4	5.7
80°-90°	252.6	3.9
90°-100°	227.9	3.5
100°-110°	301.9	4.6
110°-120°	384.1	5.9
120°-130°	442.1	6.8
130°-140°	463.7	7.1
140°-150°	438.9	6.7
150°-160°	365.5	5.6
160°-170°	242.4	3.7
170°-180°	84.7	1.3
0°-30°	825.2	12.6
0°-40°	1356.9	20.7
0°-60°	2484.5	37.9
0°-90°	3595.7	54.9
90°-120°	913.9	14.0
90°-150°	2258.7	34.5
90°-180°	2951.0	45.1
0°-180°	6547.0	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°	16	114	229	289	308	13
95°	52	131	225	283	300	53
105°	170	217	298	354	370	180
115°	308	329	397	442	457	304
125°	442	449	496	535	548	396
135°	570	578	595	627	636	441
145°	690	695	700	710	714	431
155°	789	791	793	797	795	363
165°	858	857	857	863	859	242
175°	893	891	889	894	890	85
180°	894	894	894	894	894	

TEST NUMBER: P1029255

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_3000K

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°	16.2	114.2	229.2	289.1	308.3
92.5°	30.4	117.8	212.3	273.0	291.5
95°	51.5	131.3	224.9	283.3	300.2
97.5°	76.5	149.3	241.4	298.2	316.7
100°	106.7	169.5	257.8	314.6	330.7
102.5°	136.7	192.0	277.9	334.0	350.1
105°	170.0	216.7	298.1	353.5	370.4
107.5°	204.7	244.5	321.3	374.4	387.5
110°	236.3	271.6	346.8	396.0	410.7

TEST NUMBER: P1029255

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	272.5	301.6	371.6	418.4	433.8
115°	308.0	329.4	397.1	442.4	457.0
117.5°	342.0	360.3	421.0	464.9	477.9
120°	377.4	389.7	445.0	488.0	502.7
122.5°	409.9	418.9	472.1	511.2	523.6
125°	442.4	449.1	496.0	535.2	548.3
127.5°	475.6	482.3	520.7	556.1	567.7
130°	506.5	514.7	545.5	580.9	590.1
132.5°	541.2	547.2	571.0	602.6	612.6
135°	569.8	578.1	595.0	626.6	636.5
137.5°	603.0	609.8	619.0	647.5	655.3
140°	632.5	637.7	644.6	669.1	675.4
142.5°	662.6	667.9	670.2	689.4	694.0
145°	689.8	695.1	699.6	709.6	714.3
147.5°	715.5	722.3	725.3	728.3	729.9
150°	741.9	746.4	749.4	751.7	749.4
152.5°	765.3	769.8	773.6	776.6	773.6
155°	788.7	791.0	793.2	797.0	794.7
157.5°	809.1	810.6	812.1	817.4	813.6
160°	827.2	828.7	829.5	834.0	831.0
162.5°	843.8	843.8	844.5	849.8	846.1
165°	858.1	857.4	857.4	862.7	858.9
167.5°	871.0	868.7	868.7	874.0	870.2
170°	880.8	878.5	877.8	883.0	878.5
172.5°	887.6	885.3	884.5	889.8	885.3
175°	892.8	890.6	889.1	894.4	889.8
177.5°	895.9	893.6	892.1	896.6	892.1
180°	894.4	894.4	894.4	894.4	894.4

(END OF REPORT)