

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: P1029257

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029257
REPORT IS A COMBINATION OF REPORTS P985315 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_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

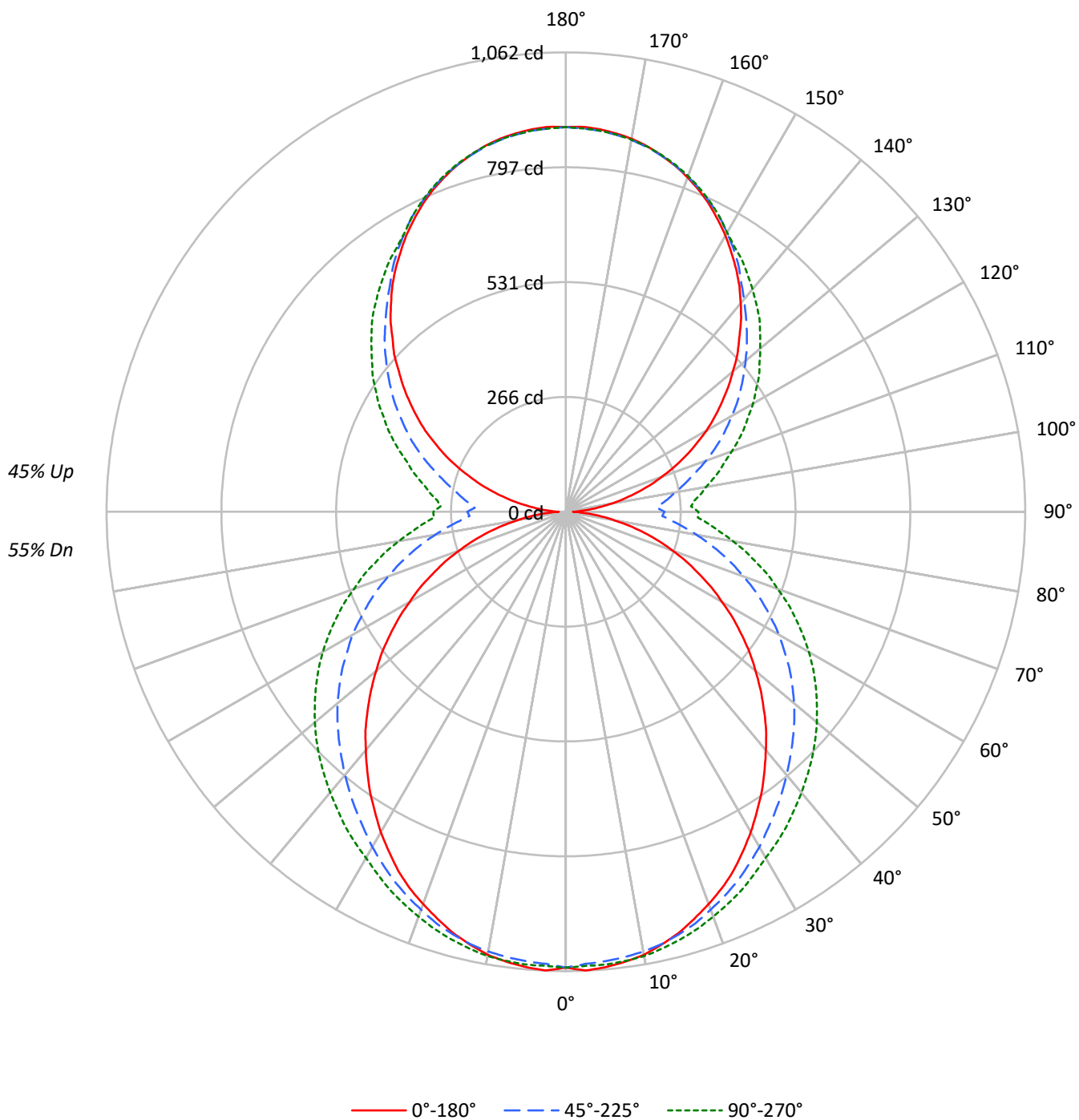
Lumens per Lamp: N/A
Luminaire Lumens: 6510.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1029257

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1029257

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16681	16681	16681
5°	16757	15969	15880
10°	16645	15416	15191
15°	16409	14845	14486
20°	16112	14243	13816
25°	15821	13668	13209
30°	15411	13083	12607
35°	14996	12520	12166
40°	14558	12033	11726
45°	14144	11591	11345
50°	13695	11183	10966
55°	13227	10751	10583
60°	12651	10300	10179
65°	12055	9782	9714
70°	11377	9225	9213
75°	10511	8668	8741
80°	9141	8090	8252
85°	7769	7544	7828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14144 cd/sqm

TEST NUMBER: P1029257

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.5
10°-20°	286.5	4.4
20°-30°	434.1	6.7
30°-40°	528.7	8.1
40°-50°	568.8	8.7
50°-60°	552.4	8.5
60°-70°	482.4	7.4
70°-80°	371.3	5.7
80°-90°	251.2	3.9
90°-100°	226.6	3.5
100°-110°	300.2	4.6
110°-120°	382.0	5.9
120°-130°	439.7	6.8
130°-140°	461.1	7.1
140°-150°	436.5	6.7
150°-160°	363.4	5.6
160°-170°	241.0	3.7
170°-180°	84.2	1.3
0°-30°	820.6	12.6
0°-40°	1349.2	20.7
0°-60°	2470.4	37.9
0°-90°	3575.3	54.9
90°-120°	908.7	14.0
90°-150°	2246.1	34.5
90°-180°	2935.0	45.1
0°-180°	6510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1057	1052	1043	1052	1051	100
15°	1008	1011	1011	1025	1023	284
25°	916	927	941	959	964	421
35°	790	816	845	878	889	494
45°	648	689	742	790	805	500
55°	496	551	631	686	706	444
65°	339	414	504	567	586	337
75°	188	273	371	437	457	199
85°	55	150	247	312	333	58
90°	16	114	228	288	306	13
95°	51	130	224	282	298	53
105°	169	216	296	351	368	179
115°	306	328	395	440	454	303
125°	440	447	493	532	545	394
135°	567	575	592	623	633	438
145°	686	691	696	706	710	429
155°	784	786	789	792	790	361
165°	853	853	853	858	854	241
175°	888	886	884	889	885	84
180°	889	889	889	889	889	

TEST NUMBER: P1029257

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.8	1053.8	1053.8	1053.8	1053.8
2.5°	1061.5	1056.9	1046.2	1053.8	1050.8
5°	1056.9	1052.3	1043.1	1052.3	1050.8
7.5°	1049.2	1046.2	1038.5	1049.2	1047.7
10°	1040.1	1037.0	1032.4	1044.7	1043.1
12.5°	1024.8	1026.3	1023.3	1035.5	1034.0
15°	1008.0	1011.1	1011.1	1024.8	1023.3
17.5°	986.6	992.7	997.3	1011.1	1011.1
20°	965.2	972.9	979.0	995.8	995.8
22.5°	942.3	951.5	960.7	977.5	980.5
25°	916.4	927.1	940.8	959.1	963.7
27.5°	885.8	902.6	917.9	940.8	943.9
30°	855.3	875.1	895.0	919.4	924.0
32.5°	821.7	844.6	869.0	898.0	907.2
35°	789.6	815.6	844.6	878.2	888.9
37.5°	754.5	783.5	820.1	856.8	867.5
40°	719.3	752.9	794.2	833.9	847.6
42.5°	685.7	719.3	768.2	812.5	826.3
45°	647.6	688.8	742.3	789.6	804.9
47.5°	610.9	655.2	716.3	765.2	782.0
50°	572.7	620.1	688.8	740.7	757.5
52.5°	536.1	586.5	659.8	713.2	731.6
55°	496.4	551.3	630.8	685.7	705.6
57.5°	458.2	519.3	598.7	658.3	678.1
60°	416.9	482.6	569.7	627.7	649.1
62.5°	380.3	449.0	536.1	598.7	618.5
65°	339.1	413.9	504.0	566.6	586.5
67.5°	302.4	380.3	471.9	534.5	555.9
70°	262.7	342.1	436.8	502.5	520.8
72.5°	226.0	308.5	404.7	468.9	491.8
75°	187.9	273.4	371.1	436.8	456.7
77.5°	151.2	239.8	339.1	404.7	426.1
80°	114.5	207.7	307.0	371.1	392.5
82.5°	84.0	175.6	276.4	340.6	360.4
85°	55.0	149.7	247.4	311.6	332.9
87.5°	33.6	125.2	223.0	285.6	305.5
90°	16.1	113.7	227.9	287.5	306.5
92.5°	30.2	117.2	211.2	271.4	289.7
95°	51.2	130.5	223.6	281.7	298.5
97.5°	76.0	148.4	240.0	296.6	314.9
100°	106.0	168.5	256.3	312.8	328.8
102.5°	136.0	190.9	276.3	332.1	348.1
105°	169.0	215.5	296.4	351.4	368.2
107.5°	203.5	243.2	319.6	372.2	385.3
110°	235.0	270.1	344.9	393.8	408.4

TEST NUMBER: P1029257

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.0	299.9	369.5	416.1	431.4
115°	306.3	327.6	394.8	440.0	454.5
117.5°	340.1	358.3	418.6	462.3	475.2
120°	375.4	387.5	442.6	485.3	499.8
122.5°	407.6	416.6	469.4	508.4	520.6
125°	439.9	446.7	493.2	532.2	545.2
127.5°	472.9	479.6	517.9	553.0	564.5
130°	503.7	511.8	542.4	577.6	586.8
132.5°	538.2	544.1	567.8	599.2	609.2
135°	566.6	574.9	591.7	623.0	633.0
137.5°	599.7	606.4	615.6	643.9	651.6
140°	628.9	634.2	641.0	665.4	671.6
142.5°	658.9	664.2	666.5	685.5	690.2
145°	686.0	691.2	695.7	705.7	710.3
147.5°	711.5	718.2	721.2	724.2	725.8
150°	737.8	742.3	745.3	747.5	745.3
152.5°	761.0	765.5	769.3	772.3	769.3
155°	784.3	786.5	788.8	792.5	790.3
157.5°	804.5	806.0	807.5	812.8	809.1
160°	822.6	824.1	824.8	829.3	826.3
162.5°	839.1	839.1	839.8	845.1	841.3
165°	853.3	852.6	852.6	857.8	854.1
167.5°	866.1	863.8	863.8	869.1	865.3
170°	875.8	873.6	872.8	878.1	873.6
172.5°	882.6	880.3	879.6	884.9	880.3
175°	887.9	885.6	884.1	889.4	884.9
177.5°	890.9	888.6	887.1	891.6	887.1
180°	889.4	889.4	889.4	889.4	889.4

(END OF REPORT)