

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: P1029265

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-F1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029265
REPORT IS A COMBINATION OF REPORTS P985328 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-F1_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

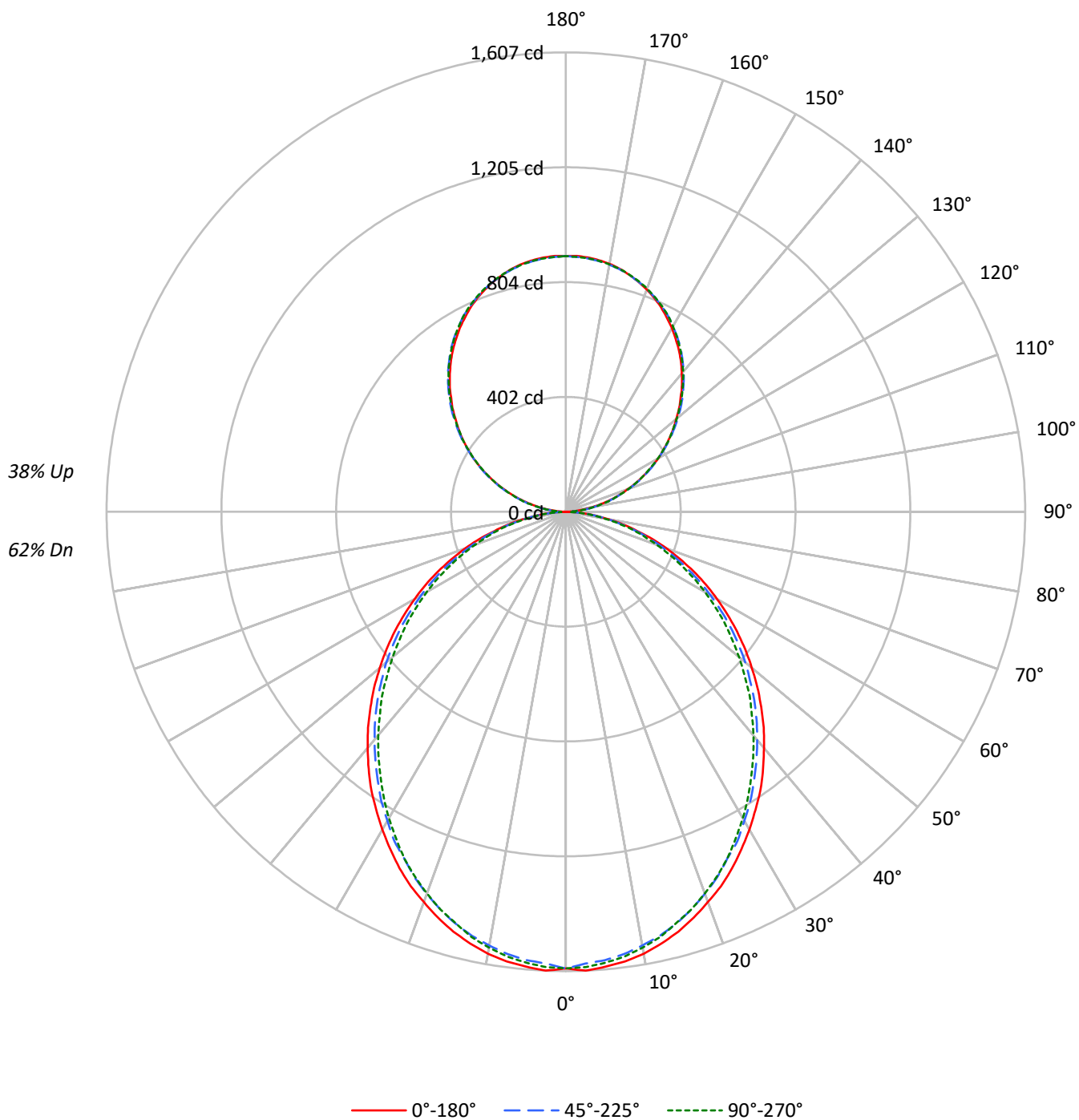
Lumens per Lamp: N/A
Luminaire Lumens: 6567.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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: P1029265

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-F1_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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	110	110	110	110	103	103	103	103	90	90	90		78	78	78		67	67	67	62
1	100	96	92	89	94	90	87	84	79	76	74		69	67	65		59	58	57	52
2	91	84	78	72	85	79	73	69	69	65	61		60	57	54		52	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52		53	49	46		46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44		48	43	39		41	38	35	32
5	70	58	50	44	66	55	48	42	49	43	38		43	38	34		37	34	31	28
6	65	52	44	38	60	49	42	37	44	38	33		39	34	30		34	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29		35	30	27		31	27	24	22
8	56	43	35	30	52	41	34	29	36	30	26		32	27	24		28	24	22	19
9	52	39	32	27	49	37	30	26	33	28	24		30	25	21		26	22	19	17
10	49	36	29	24	46	34	28	23	31	25	21		28	23	19		24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25286	25286	25286
5°	25327	24101	23931
10°	25120	23004	22546
15°	24753	21896	21092
20°	24255	20693	19713
25°	23759	19436	18336
30°	23137	18254	16892
35°	22549	17008	15473
40°	21822	15778	14131
45°	21100	14558	12816
50°	20312	13317	11451
55°	19481	11990	10160
60°	18550	10553	8816
65°	17526	9093	7403
70°	16232	7493	5978
75°	14433	5777	4615
80°	12263	3926	2971
85°	8899	1826	1265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21100 cd/sqm

TEST NUMBER: P1029265

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-F1_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	2.3
10°-20°	423.0	6.4
20°-30°	621.6	9.5
30°-40°	722.0	11.0
40°-50°	721.1	11.0
50°-60°	628.8	9.6
60°-70°	464.8	7.1
70°-80°	263.0	4.0
80°-90°	71.9	1.1
90°-100°	55.3	0.8
100°-110°	175.9	2.7
110°-120°	300.9	4.6
120°-130°	395.8	6.0
130°-140°	444.3	6.8
140°-150°	435.7	6.6
150°-160°	365.5	5.6
160°-170°	242.4	3.7
170°-180°	84.7	1.3
0°-30°	1195.0	18.2
0°-40°	1917.0	29.2
0°-60°	3266.8	49.7
0°-90°	4066.6	61.9
90°-120°	532.2	8.1
90°-150°	1807.9	27.5
90°-180°	2500.0	38.1
0°-180°	6567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1597	1591	1574	1587	1584	152
15°	1521	1511	1491	1498	1490	428
25°	1376	1364	1338	1341	1338	633
35°	1187	1172	1147	1138	1130	741
45°	966	955	932	915	909	746
55°	731	722	704	685	677	654
65°	493	484	468	455	447	487
75°	258	255	247	238	241	275
85°	63	61	60	55	54	70
90°	1	10	26	25	26	6
95°	39	47	48	48	47	44
105°	162	164	166	168	168	171
115°	302	306	305	304	302	299
125°	439	446	444	442	441	393
135°	568	577	578	577	575	439
145°	690	695	700	700	697	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: P1029265

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-F1_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.4	1597.4	1597.4	1597.4	1597.4
2.5°	1606.6	1598.9	1582.0	1597.4	1594.3
5°	1597.4	1591.2	1574.3	1586.6	1583.6
7.5°	1586.6	1577.4	1560.5	1572.8	1569.7
10°	1569.7	1559.0	1540.6	1552.8	1548.2
12.5°	1546.7	1537.5	1519.1	1526.7	1523.7
15°	1520.6	1511.4	1491.4	1497.5	1489.9
17.5°	1488.3	1479.1	1459.1	1466.8	1459.1
20°	1453.0	1443.8	1422.3	1426.9	1420.8
22.5°	1417.7	1403.9	1383.9	1383.9	1380.8
25°	1376.2	1363.9	1337.8	1340.9	1337.8
27.5°	1330.1	1319.4	1299.4	1294.8	1287.1
30°	1284.1	1271.8	1248.7	1244.1	1238.0
32.5°	1234.9	1225.7	1201.1	1191.9	1185.8
35°	1187.3	1171.9	1147.4	1138.1	1130.5
37.5°	1133.5	1119.7	1095.1	1084.4	1076.7
40°	1078.2	1065.9	1041.4	1027.5	1021.4
42.5°	1024.5	1012.2	987.6	972.3	963.0
45°	966.1	955.4	932.3	915.4	909.3
47.5°	909.3	898.5	874.0	857.1	847.8
50°	849.4	841.7	820.2	798.7	791.0
52.5°	791.0	780.3	760.3	743.4	732.6
55°	731.1	721.9	703.5	685.0	677.4
57.5°	671.2	663.5	643.6	625.1	619.0
60°	611.3	605.2	583.7	566.8	562.2
62.5°	552.9	542.2	526.8	511.5	505.3
65°	493.0	483.8	468.5	454.6	447.0
67.5°	431.6	423.9	410.1	399.3	393.2
70°	374.8	368.6	354.8	344.1	337.9
72.5°	316.4	310.3	302.6	291.8	287.2
75°	258.0	255.0	247.3	238.1	241.1
77.5°	205.8	199.7	196.6	192.0	187.4
80°	153.6	152.1	149.0	144.4	141.3
82.5°	104.4	104.4	102.9	96.8	96.8
85°	63.0	61.4	59.9	55.3	53.8
87.5°	27.6	24.6	21.5	16.9	15.4
90°	0.8	9.8	26.4	24.9	25.7
92.5°	16.6	22.6	23.4	24.2	24.2
95°	39.2	46.8	48.3	48.3	46.8
97.5°	65.7	72.5	75.5	75.5	75.5
100°	95.9	101.9	104.2	104.2	103.4
102.5°	127.5	132.1	135.1	135.9	135.1
105°	162.3	164.5	166.0	167.6	167.6
107.5°	197.0	200.0	200.0	200.8	197.0
110°	230.2	234.7	234.7	234.7	232.5

TEST NUMBER: P1029265

CATALOG NUMBER: S122DIW-B1005D710UB2750-4F0-XX-W2A-F1_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.4	270.9	270.2	267.9	266.4
115°	301.9	306.4	304.9	304.2	301.9
117.5°	337.4	343.4	339.6	337.4	335.1
120°	372.8	378.9	372.8	372.8	370.6
122.5°	405.3	412.8	409.1	406.8	405.3
125°	439.3	446.0	443.8	441.5	440.8
127.5°	472.5	480.8	477.7	474.7	472.5
130°	503.4	513.2	511.7	510.2	507.2
132.5°	538.1	545.7	546.4	542.7	540.4
135°	568.3	576.6	578.1	577.4	575.1
137.5°	601.5	608.3	609.8	609.1	606.1
140°	631.0	637.7	641.5	641.5	638.5
142.5°	661.1	667.9	670.2	671.0	667.9
145°	689.8	695.1	699.6	700.4	697.4
147.5°	715.5	722.3	725.3	726.8	723.8
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)