

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: P1029273

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029273
REPORT IS A COMBINATION OF REPORTS P985341 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-F_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

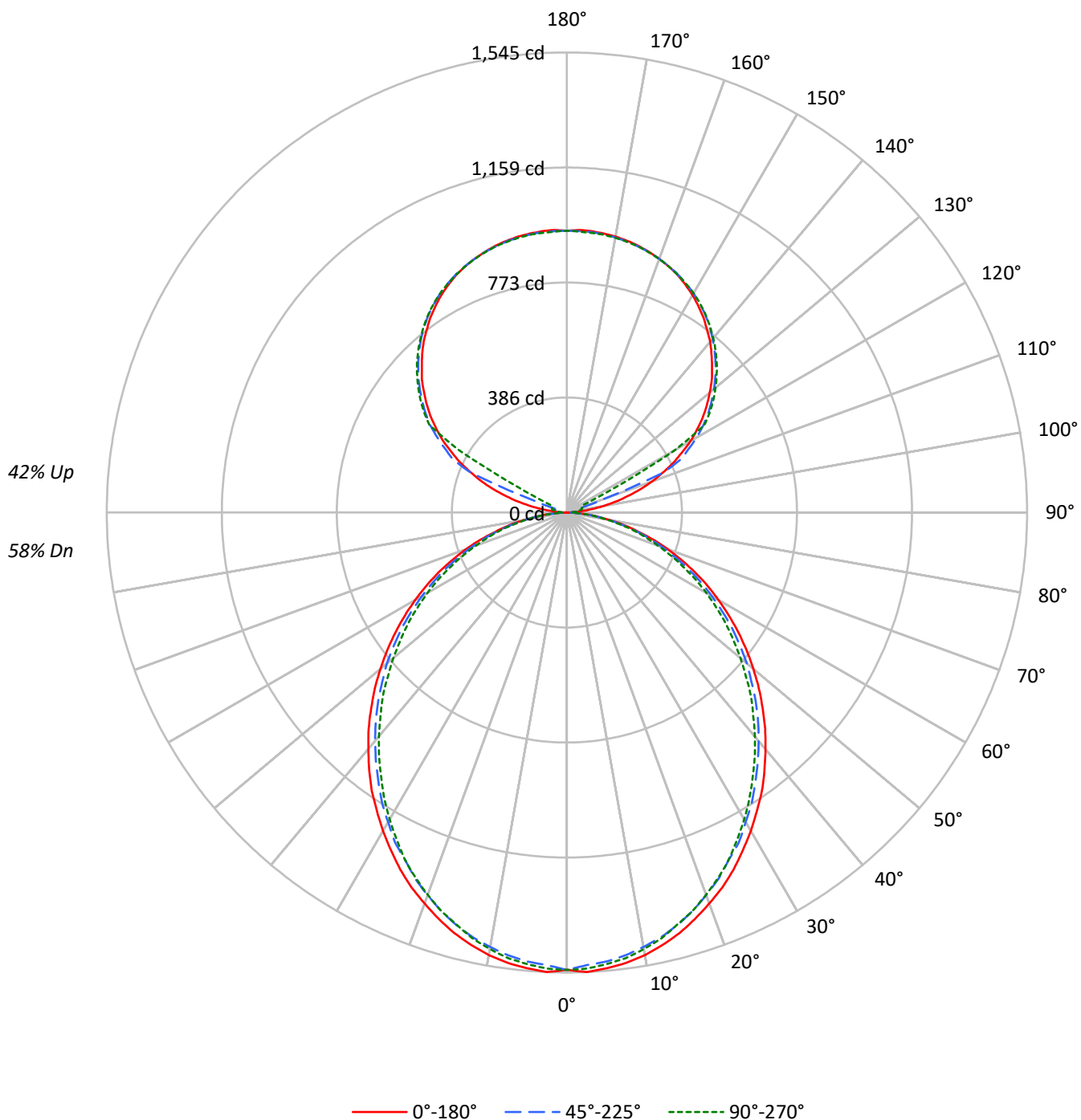
Lumens per Lamp: N/A
Luminaire Lumens: 6684.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	100	95	91	88	93	89	86	83	77	75	72	66	65	63	57	55	54
2	91	83	77	72	84	78	72	68	68	64	60	58	55	53	50	48	46
3	83	73	66	60	77	69	62	57	60	55	50	52	48	45	44	41	39
4	76	65	57	51	70	61	54	48	53	48	43	46	42	38	39	36	33
5	70	58	50	43	65	54	47	41	48	42	37	41	37	33	36	32	29
6	64	52	44	38	60	49	41	36	43	37	33	37	33	29	32	29	26
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23
8	55	43	35	29	51	40	33	28	36	30	26	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	19
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24315	24315	24315
5°	24355	23176	23013
10°	24156	22120	21681
15°	23803	21057	20282
20°	23324	19899	18956
25°	22848	18690	17633
30°	22249	17554	16243
35°	21683	16355	14879
40°	20984	15172	13589
45°	20289	13999	12325
50°	19533	12805	11011
55°	18732	11530	9770
60°	17837	10148	8477
65°	16854	8743	7118
70°	15608	7206	5748
75°	13879	5555	4439
80°	11792	3776	2857
85°	8560	1756	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20289 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	2.2
10°-20°	406.8	6.1
20°-30°	597.8	8.9
30°-40°	694.3	10.4
40°-50°	693.4	10.4
50°-60°	604.6	9.0
60°-70°	446.9	6.7
70°-80°	252.9	3.8
80°-90°	68.4	1.0
90°-100°	31.2	0.5
100°-110°	116.3	1.7
110°-120°	308.5	4.6
120°-130°	511.7	7.7
130°-140°	543.5	8.1
140°-150°	505.2	7.6
150°-160°	406.1	6.1
160°-170°	261.7	3.9
170°-180°	90.1	1.3
0°-30°	1149.1	17.2
0°-40°	1843.4	27.6
0°-60°	3141.4	47.0
0°-90°	3909.7	58.5
90°-120°	456.0	6.8
90°-150°	2016.4	30.2
90°-180°	2774.0	41.5
0°-180°	6684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1536	1530	1514	1526	1523	146
15°	1462	1453	1434	1440	1433	412
25°	1323	1312	1286	1289	1286	609
35°	1142	1127	1103	1094	1087	713
45°	929	919	896	880	874	717
55°	703	694	676	659	651	629
65°	474	465	450	437	430	469
75°	248	245	238	229	232	265
85°	61	59	58	53	52	67
90°	1	8	14	17	18	6
95°	44	22	27	30	29	53
105°	208	229	42	49	52	222
115°	394	405	422	106	56	388
125°	557	566	579	583	586	497
135°	689	700	706	713	712	532
145°	799	798	810	815	811	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.1	1536.1	1536.1	1536.1	1536.1
2.5°	1544.9	1537.5	1521.3	1536.1	1533.1
5°	1536.1	1530.2	1513.9	1525.7	1522.8
7.5°	1525.7	1516.9	1500.6	1512.4	1509.5
10°	1509.5	1499.1	1481.4	1493.2	1488.8
12.5°	1487.3	1478.5	1460.7	1468.1	1465.2
15°	1462.2	1453.4	1434.2	1440.1	1432.7
17.5°	1431.2	1422.3	1403.1	1410.5	1403.1
20°	1397.2	1388.4	1367.7	1372.1	1366.2
22.5°	1363.3	1350.0	1330.8	1330.8	1327.8
25°	1323.4	1311.6	1286.5	1289.4	1286.5
27.5°	1279.1	1268.7	1249.5	1245.1	1237.7
30°	1234.8	1222.9	1200.8	1196.4	1190.5
32.5°	1187.5	1178.6	1155.0	1146.1	1140.2
35°	1141.7	1126.9	1103.3	1094.4	1087.1
37.5°	1090.0	1076.7	1053.1	1042.8	1035.4
40°	1036.8	1025.0	1001.4	988.1	982.2
42.5°	985.2	973.3	949.7	934.9	926.1
45°	929.0	918.7	896.5	880.3	874.4
47.5°	874.4	864.0	840.4	824.2	815.3
50°	816.8	809.4	788.7	768.0	760.6
52.5°	760.6	750.3	731.1	714.9	704.5
55°	703.0	694.2	676.5	658.7	651.4
57.5°	645.4	638.1	618.9	601.1	595.2
60°	587.8	581.9	561.3	545.0	540.6
62.5°	531.7	521.4	506.6	491.8	485.9
65°	474.1	465.3	450.5	437.2	429.8
67.5°	415.0	407.6	394.4	384.0	378.1
70°	360.4	354.5	341.2	330.8	324.9
72.5°	304.3	298.4	291.0	280.6	276.2
75°	248.1	245.2	237.8	228.9	231.9
77.5°	197.9	192.0	189.1	184.6	180.2
80°	147.7	146.2	143.3	138.8	135.9
82.5°	100.4	100.4	99.0	93.1	93.1
85°	60.6	59.1	57.6	53.2	51.7
87.5°	26.6	23.6	20.7	16.2	14.8
90°	0.7	8.2	13.7	17.1	18.5
92.5°	17.1	14.4	16.4	17.8	18.5
95°	44.5	21.9	26.7	30.1	29.4
97.5°	80.1	24.0	34.9	37.0	37.7
100°	121.2	27.4	39.0	44.5	45.9
102.5°	166.4	165.0	40.4	47.9	50.0
105°	208.2	228.7	41.8	49.3	52.0
107.5°	256.8	273.9	43.1	50.7	53.4
110°	303.3	317.7	119.8	51.4	54.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	347.2	359.5	347.9	52.7	54.8
115°	393.7	405.4	422.5	105.5	56.2
117.5°	434.1	447.8	459.5	361.6	182.1
120°	479.3	489.6	501.9	510.1	417.7
122.5°	517.7	528.6	542.3	546.4	547.1
125°	556.7	565.6	578.6	583.4	585.5
127.5°	592.3	601.9	612.2	619.0	619.7
130°	625.9	636.8	644.4	651.9	651.2
132.5°	660.1	669.0	676.5	682.7	682.0
135°	688.9	699.8	706.0	712.8	711.5
137.5°	719.0	727.2	734.1	740.9	738.9
140°	748.4	753.9	761.5	767.6	764.2
142.5°	773.1	777.9	786.8	792.3	788.8
145°	799.1	798.4	810.1	814.9	811.4
147.5°	821.7	819.7	831.3	834.7	832.0
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)