

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: P1029259

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029259
REPORT IS A COMBINATION OF REPORTS P985322 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_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

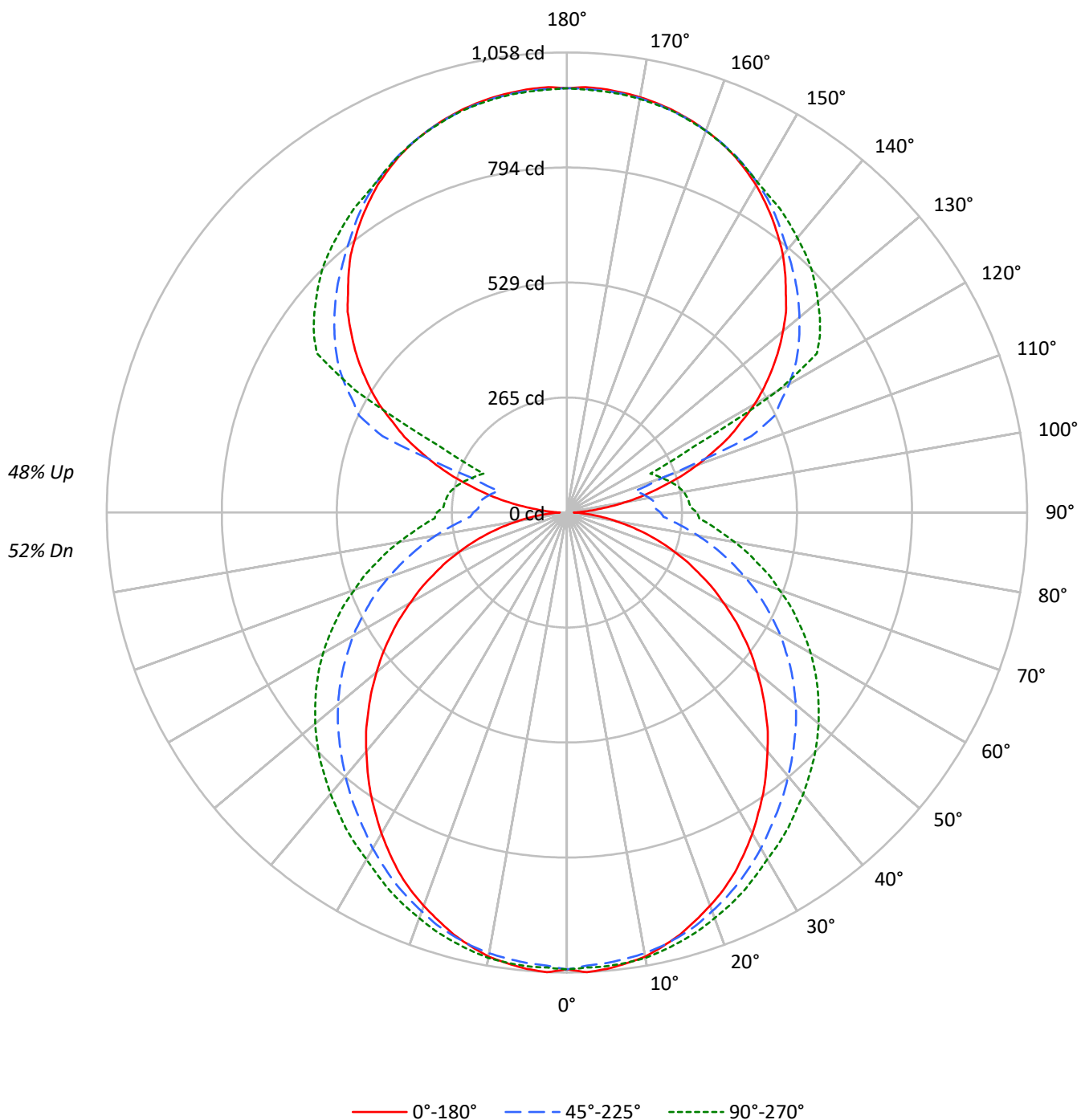
Lumens per Lamp: N/A
Luminaire Lumens: 6871.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	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°	16632	16632	16632
5°	16706	15921	15831
10°	16595	15371	15146
15°	16360	14799	14442
20°	16066	14201	13775
25°	15773	13627	13169
30°	15364	13044	12569
35°	14950	12483	12129
40°	14515	11997	11692
45°	14100	11555	11311
50°	13655	11149	10935
55°	13187	10718	10551
60°	12614	10269	10149
65°	12016	9752	9684
70°	11342	9198	9185
75°	10478	8643	8715
80°	9117	8066	8226
85°	7741	7522	7807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.4
10°-20°	285.7	4.2
20°-30°	432.8	6.3
30°-40°	527.1	7.7
40°-50°	567.1	8.3
50°-60°	550.7	8.0
60°-70°	481.0	7.0
70°-80°	370.2	5.4
80°-90°	249.6	3.6
90°-100°	203.2	3.0
100°-110°	244.8	3.6
110°-120°	400.5	5.8
120°-130°	573.5	8.3
130°-140°	579.7	8.4
140°-150°	524.1	7.6
150°-160°	418.7	6.1
160°-170°	269.8	3.9
170°-180°	92.9	1.4
0°-30°	818.1	11.9
0°-40°	1345.2	19.6
0°-60°	2463.0	35.8
0°-90°	3563.8	51.9
90°-120°	848.6	12.4
90°-150°	2525.8	36.8
90°-180°	3307.0	48.1
0°-180°	6871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1054	1049	1040	1049	1048	100
15°	1005	1008	1008	1022	1020	283
25°	914	924	938	956	961	420
35°	787	813	842	876	886	492
45°	646	687	740	787	802	498
55°	495	550	629	684	704	443
65°	338	413	502	565	585	336
75°	187	273	370	436	455	198
85°	55	149	247	311	332	58
90°	16	112	215	280	299	13
95°	58	106	203	264	282	64
105°	222	288	174	235	255	238
115°	412	441	527	246	212	405
125°	577	586	648	694	710	515
135°	712	723	745	784	794	550
145°	824	823	835	849	853	516
155°	907	901	909	914	908	418
165°	956	952	954	959	954	270
175°	978	973	974	979	972	93
180°	976	976	976	976	976	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1058.3	1053.7	1043.1	1050.7	1047.6
5°	1053.7	1049.2	1040.0	1049.2	1047.6
7.5°	1046.1	1043.1	1035.4	1046.1	1044.6
10°	1037.0	1033.9	1029.4	1041.5	1040.0
12.5°	1021.7	1023.3	1020.2	1032.4	1030.9
15°	1005.0	1008.0	1008.0	1021.7	1020.2
17.5°	983.7	989.8	994.3	1008.0	1008.0
20°	962.4	970.0	976.1	992.8	992.8
22.5°	939.5	948.7	957.8	974.5	977.6
25°	913.6	924.3	938.0	956.3	960.8
27.5°	883.2	899.9	915.2	938.0	941.0
30°	852.7	872.5	892.3	916.7	921.2
32.5°	819.2	842.1	866.4	895.4	904.5
35°	787.2	813.1	842.1	875.6	886.2
37.5°	752.2	781.2	817.7	854.2	864.9
40°	717.2	750.7	791.8	831.4	845.1
42.5°	683.7	717.2	765.9	810.1	823.8
45°	645.6	686.7	740.0	787.2	802.5
47.5°	609.1	653.2	714.2	762.9	779.6
50°	571.0	618.2	686.7	738.5	755.3
52.5°	534.5	584.7	657.8	711.1	729.4
55°	494.9	549.7	628.9	683.7	703.5
57.5°	456.8	517.7	596.9	656.3	676.1
60°	415.7	481.2	568.0	625.8	647.2
62.5°	379.2	447.7	534.5	596.9	616.7
65°	338.0	412.7	502.5	564.9	584.7
67.5°	301.5	379.2	470.5	533.0	554.3
70°	261.9	341.1	435.5	501.0	519.2
72.5°	225.4	307.6	403.5	467.5	490.3
75°	187.3	272.6	370.0	435.5	455.3
77.5°	150.7	239.1	338.0	403.5	424.8
80°	114.2	207.1	306.1	370.0	391.3
82.5°	83.7	175.1	275.6	339.6	359.4
85°	54.8	149.2	246.7	310.6	332.0
87.5°	33.5	124.9	222.3	284.7	304.5
90°	15.9	112.0	215.1	279.5	299.3
92.5°	31.3	109.2	204.2	265.1	284.1
95°	58.1	106.3	202.6	264.1	281.6
97.5°	93.3	100.8	200.5	258.9	277.9
100°	135.7	95.2	192.5	254.5	272.7
102.5°	180.7	229.5	183.3	245.8	264.7
105°	222.2	287.6	174.1	235.0	254.7
107.5°	272.3	326.6	164.8	224.3	243.9
110°	318.8	364.1	234.7	212.8	232.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	364.0	401.1	459.1	203.6	222.5
115°	412.0	440.7	527.0	245.7	211.7
117.5°	452.2	478.4	554.4	499.2	329.4
120°	498.8	515.5	589.1	640.2	561.6
122.5°	538.3	551.1	621.5	666.9	681.3
125°	577.0	586.1	648.3	694.4	710.2
127.5°	613.7	622.1	673.7	718.9	733.3
130°	648.3	658.1	697.8	742.1	753.6
132.5°	683.6	691.2	721.9	763.3	774.8
135°	711.7	723.0	744.6	783.6	794.4
137.5°	742.8	751.2	765.9	802.0	810.4
140°	773.1	777.3	788.0	818.8	824.4
142.5°	798.5	802.0	811.2	835.1	839.2
145°	823.9	823.2	835.2	849.2	853.3
147.5°	847.2	845.1	857.1	862.1	863.9
150°	869.8	864.8	876.1	880.4	876.8
152.5°	888.8	883.2	893.8	898.0	893.1
155°	907.2	900.8	909.3	913.5	907.9
157.5°	922.0	916.4	922.7	927.7	922.0
160°	934.7	930.5	934.7	938.9	934.0
162.5°	946.0	941.8	945.3	950.2	943.9
165°	955.9	951.7	953.8	958.7	953.8
167.5°	963.7	959.4	961.5	966.5	960.1
170°	970.0	965.8	967.2	972.1	965.8
172.5°	974.2	970.0	971.4	976.4	970.0
175°	977.8	972.8	974.2	979.2	972.1
177.5°	979.2	974.2	975.0	979.9	973.5
180°	975.7	975.7	975.7	975.7	975.7

(END OF REPORT)