

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: P1029262

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029262
REPORT IS A COMBINATION OF REPORTS P985325 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_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

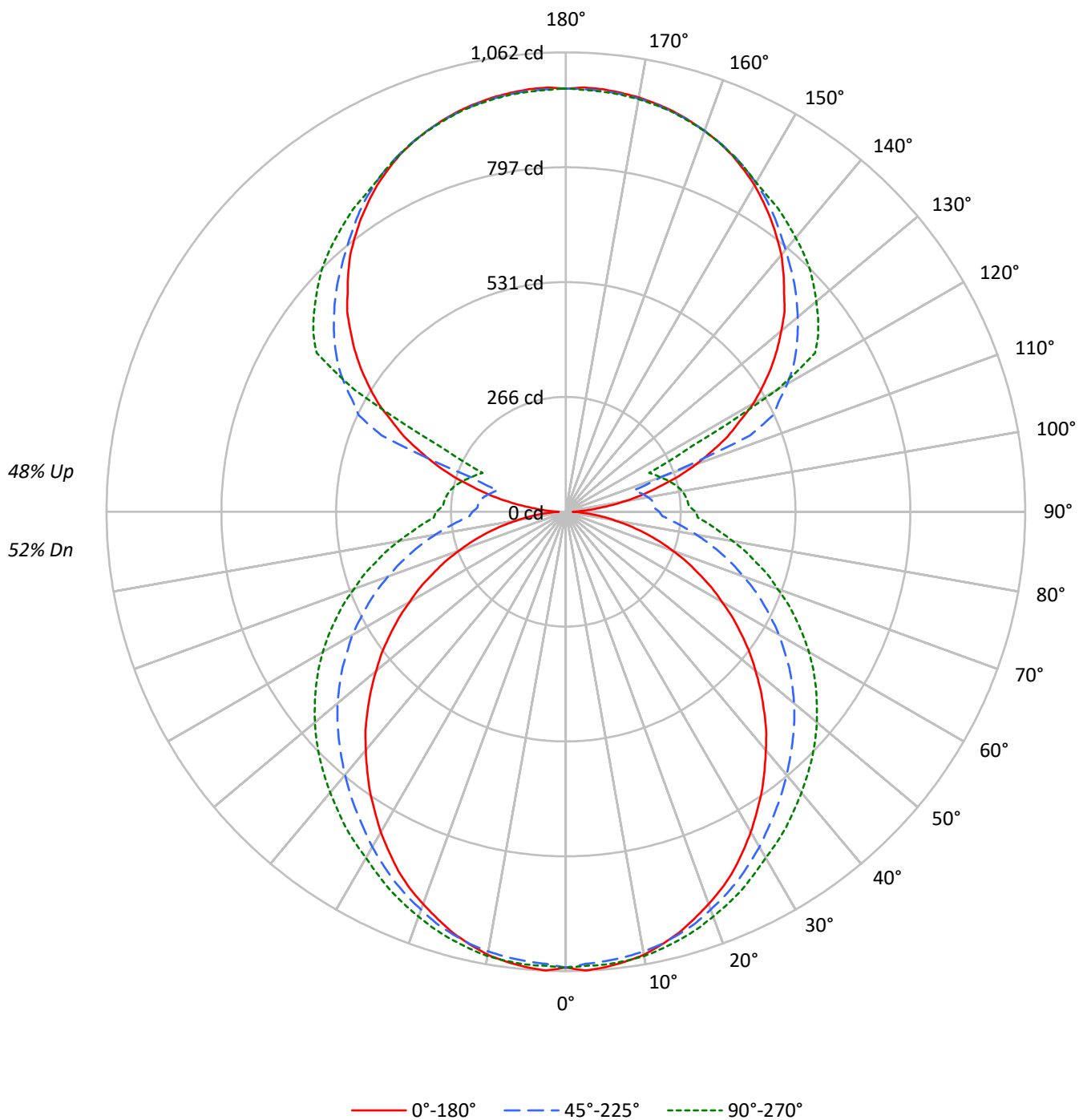
Lumens per Lamp: N/A
Luminaire Lumens: 6891.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.4
10°-20°	286.5	4.2
20°-30°	434.1	6.3
30°-40°	528.7	7.7
40°-50°	568.8	8.3
50°-60°	552.4	8.0
60°-70°	482.4	7.0
70°-80°	371.3	5.4
80°-90°	250.4	3.6
90°-100°	203.8	3.0
100°-110°	245.6	3.6
110°-120°	401.7	5.8
120°-130°	575.1	8.3
130°-140°	581.3	8.4
140°-150°	525.5	7.6
150°-160°	419.9	6.1
160°-170°	270.6	3.9
170°-180°	93.1	1.4
0°-30°	820.6	11.9
0°-40°	1349.2	19.6
0°-60°	2470.4	35.8
0°-90°	3574.5	51.9
90°-120°	851.1	12.4
90°-150°	2533.0	36.8
90°-180°	3317.0	48.1
0°-180°	6891.0	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	112	216	280	300	13
95°	58	107	203	265	282	64
105°	223	288	174	236	255	239
115°	413	442	528	246	212	406
125°	579	588	650	696	712	517
135°	714	725	747	786	797	552
145°	826	826	838	852	856	517
155°	910	903	912	916	910	419
165°	959	954	956	961	956	271
175°	980	976	977	982	975	93
180°	978	978	978	978	978	

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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°	16.0	112.4	215.8	280.4	300.1
92.5°	31.4	109.6	204.9	265.8	284.8
95°	58.2	106.7	203.2	264.8	282.4
97.5°	93.5	101.2	201.0	259.7	278.7
100°	136.0	95.5	193.1	255.2	273.4
102.5°	181.2	230.2	183.8	246.6	265.5
105°	222.8	288.4	174.5	235.8	255.4
107.5°	273.1	327.5	165.3	225.0	244.6
110°	319.7	365.2	235.4	213.5	233.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.0	402.2	460.4	204.2	223.1
115°	413.2	442.0	528.4	246.5	212.4
117.5°	453.4	479.8	555.9	500.6	330.3
120°	500.2	516.9	590.7	641.9	563.1
122.5°	539.8	552.6	623.3	668.8	683.3
125°	578.7	587.9	650.1	696.4	712.2
127.5°	615.5	623.8	675.7	720.9	735.4
130°	650.2	659.9	699.8	744.3	755.8
132.5°	685.6	693.2	723.9	765.4	776.9
135°	713.7	725.0	746.7	785.9	796.7
137.5°	744.8	753.3	768.1	804.2	812.8
140°	775.3	779.5	790.3	821.1	826.8
142.5°	800.8	804.2	813.4	837.4	841.6
145°	826.2	825.5	837.5	851.7	855.7
147.5°	849.5	847.4	859.4	864.5	866.3
150°	872.2	867.2	878.6	882.8	879.3
152.5°	891.3	885.6	896.3	900.5	895.6
155°	909.7	903.3	911.8	916.1	910.4
157.5°	924.6	918.9	925.3	930.2	924.6
160°	937.3	933.1	937.3	941.6	936.6
162.5°	948.7	944.4	947.9	952.9	946.5
165°	958.6	954.3	956.4	961.4	956.4
167.5°	966.3	962.1	964.2	969.2	962.8
170°	972.7	968.5	969.9	974.8	968.5
172.5°	977.0	972.7	974.1	979.1	972.7
175°	980.5	975.6	977.0	981.9	974.8
177.5°	981.9	977.0	977.7	982.6	976.3
180°	978.4	978.4	978.4	978.4	978.4

(END OF REPORT)