

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: P1029268

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029268
REPORT IS A COMBINATION OF REPORTS P985331 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_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

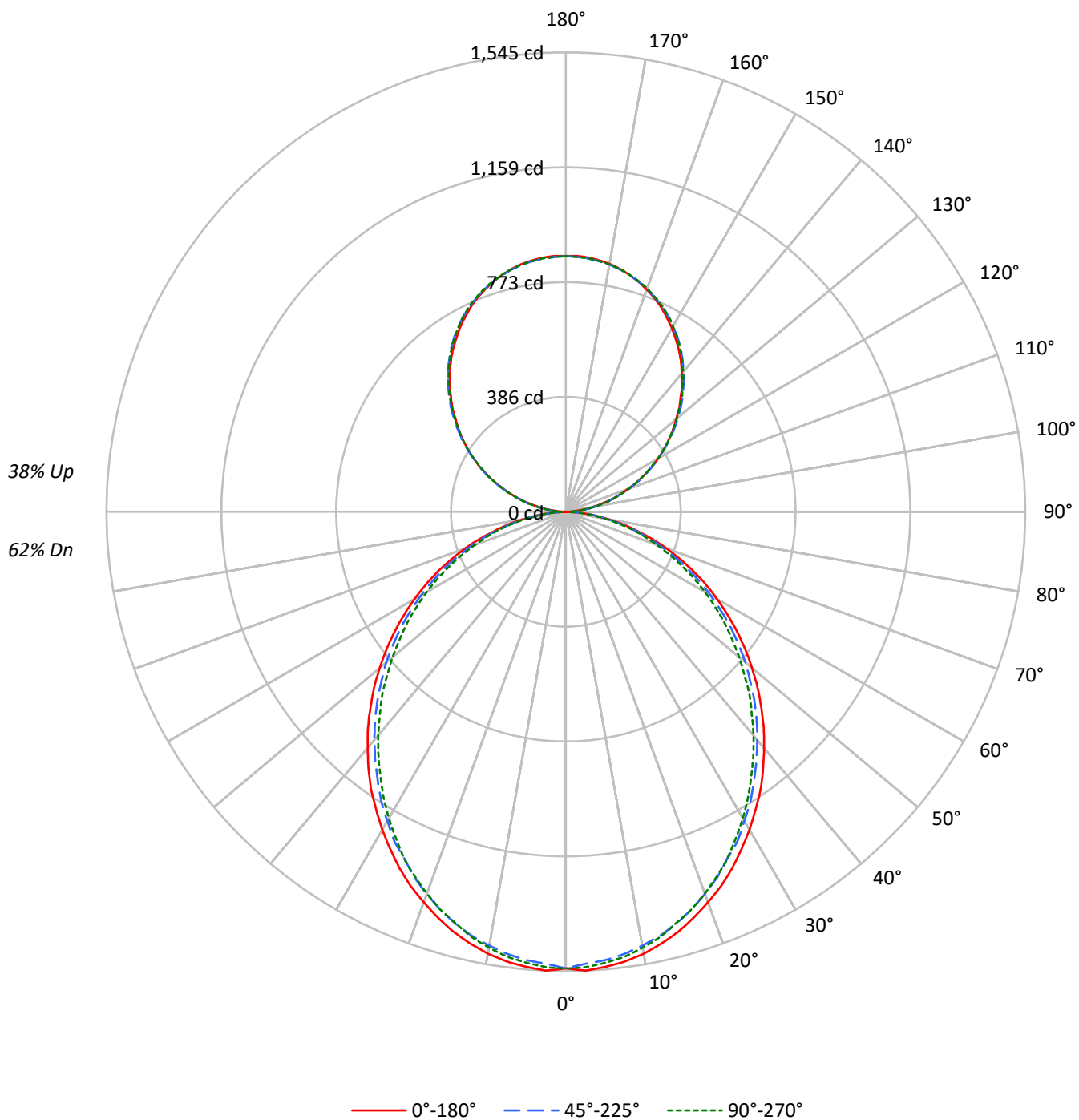
Lumens per Lamp: N/A
Luminaire Lumens: 6315.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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

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	2.3
10°-20°	406.8	6.4
20°-30°	597.8	9.5
30°-40°	694.3	11.0
40°-50°	693.4	11.0
50°-60°	604.6	9.6
60°-70°	446.9	7.1
70°-80°	252.9	4.0
80°-90°	69.2	1.1
90°-100°	53.2	0.8
100°-110°	169.1	2.7
110°-120°	289.4	4.6
120°-130°	380.6	6.0
130°-140°	427.2	6.8
140°-150°	419.0	6.6
150°-160°	351.4	5.6
160°-170°	233.1	3.7
170°-180°	81.5	1.3
0°-30°	1149.1	18.2
0°-40°	1843.4	29.2
0°-60°	3141.4	49.7
0°-90°	3910.5	61.9
90°-120°	511.7	8.1
90°-150°	1738.5	27.5
90°-180°	2405.0	38.1
0°-180°	6315.0	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	9	25	24	25	6
95°	38	45	46	46	45	42
105°	156	158	160	161	161	165
115°	290	295	293	292	290	287
125°	422	429	427	425	424	377
135°	546	554	556	555	553	422
145°	663	668	673	674	671	414
155°	758	761	763	766	764	349
165°	825	824	824	830	826	233
175°	859	856	855	860	856	82
180°	860	860	860	860	860	

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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	9.4	25.4	24.0	24.7
92.5°	16.0	21.8	22.5	23.2	23.2
95°	37.7	45.0	46.5	46.5	45.0
97.5°	63.1	69.7	72.6	72.6	72.6
100°	92.2	98.0	100.2	100.2	99.4
102.5°	122.7	127.0	129.9	130.6	129.9
105°	156.0	158.2	159.7	161.1	161.1
107.5°	189.4	192.3	192.3	193.1	189.4
110°	221.4	225.7	225.7	225.7	223.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	256.2	260.6	259.8	257.7	256.2
115°	290.3	294.7	293.2	292.5	290.3
117.5°	324.4	330.2	326.6	324.4	322.2
120°	358.5	364.3	358.5	358.5	356.4
122.5°	389.7	397.0	393.4	391.2	389.7
125°	422.4	428.9	426.8	424.6	423.9
127.5°	454.3	462.3	459.4	456.5	454.3
130°	484.1	493.5	492.1	490.6	487.7
132.5°	517.5	524.7	525.5	521.8	519.7
135°	546.5	554.5	556.0	555.2	553.0
137.5°	578.5	585.0	586.4	585.7	582.8
140°	606.8	613.3	616.9	616.9	614.0
142.5°	635.8	642.3	644.5	645.2	642.3
145°	663.4	668.4	672.8	673.5	670.6
147.5°	688.0	694.6	697.5	698.9	696.0
150°	713.4	717.8	720.7	722.9	720.7
152.5°	735.9	740.3	743.9	746.8	743.9
155°	758.4	760.6	762.8	766.4	764.3
157.5°	778.0	779.5	780.9	786.0	782.4
160°	795.5	796.9	797.6	802.0	799.1
162.5°	811.4	811.4	812.2	817.2	813.6
165°	825.2	824.5	824.5	829.6	825.9
167.5°	837.6	835.4	835.4	840.5	836.8
170°	847.0	844.8	844.1	849.2	844.8
172.5°	853.5	851.3	850.6	855.7	851.3
175°	858.6	856.4	855.0	860.1	855.7
177.5°	861.5	859.3	857.9	862.2	857.9
180°	860.1	860.1	860.1	860.1	860.1

(END OF REPORT)