

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: P1029258

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029258
REPORT IS A COMBINATION OF REPORTS P985316 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-D1_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

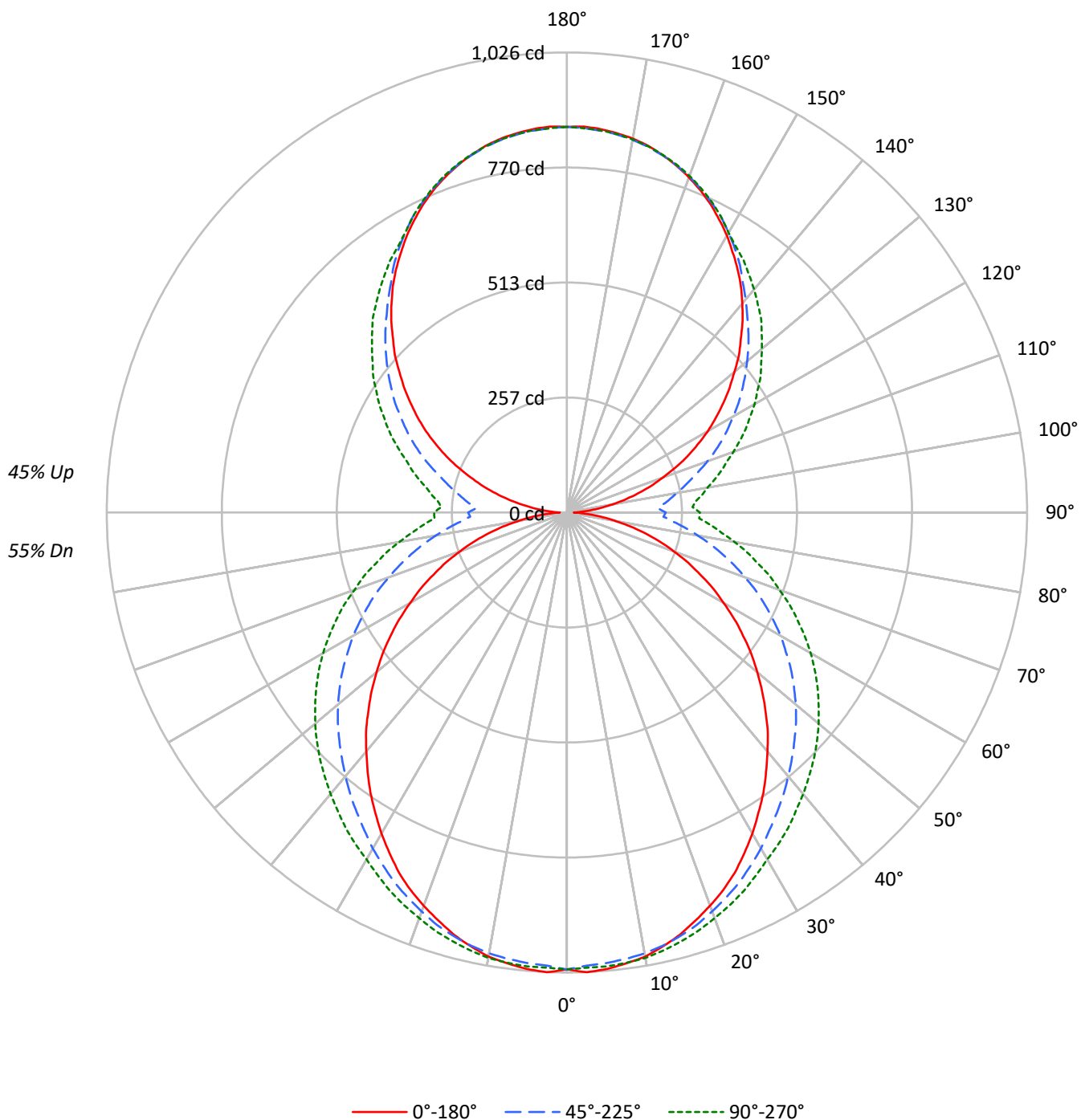
Lumens per Lamp: N/A
Luminaire Lumens: 6295.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55		
1	97	92	88	84	90	85	82	78	73	70	67	62	59	57	51	49	48	43		
2	88	80	73	67	81	74	68	63	63	58	54	53	50	47	44	41	39	35		
3	80	69	61	55	73	64	57	52	55	50	45	46	42	39	38	35	33	29		
4	73	61	53	46	67	57	49	43	49	43	38	41	36	33	34	31	28	24		
5	67	54	46	39	61	50	43	37	43	37	32	37	32	28	30	27	24	21		
6	61	48	40	34	56	45	37	32	39	33	28	33	28	24	28	24	21	18		
7	57	44	35	29	52	41	33	28	35	29	25	30	25	21	25	21	18	16		
8	52	40	31	26	48	37	30	25	32	26	22	27	23	19	23	19	16	14		
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	15	12		
10	46	33	26	21	42	31	24	20	27	21	17	23	19	15	20	16	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16130	16130	16130
5°	16202	15441	15354
10°	16094	14906	14688
15°	15867	14353	14006
20°	15580	13772	13358
25°	15298	13216	12771
30°	14901	12651	12190
35°	14500	12105	11764
40°	14078	11634	11339
45°	13674	11207	10970
50°	13243	10813	10604
55°	12787	10395	10233
60°	12235	9958	9842
65°	11653	9457	9392
70°	11000	8921	8909
75°	10159	8383	8452
80°	8846	7821	7978
85°	7515	7294	7570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.5
10°-20°	277.0	4.4
20°-30°	419.8	6.7
30°-40°	511.2	8.1
40°-50°	550.0	8.7
50°-60°	534.1	8.5
60°-70°	466.4	7.4
70°-80°	359.0	5.7
80°-90°	242.9	3.9
90°-100°	219.1	3.5
100°-110°	290.3	4.6
110°-120°	369.4	5.9
120°-130°	425.2	6.8
130°-140°	446.0	7.1
140°-150°	422.1	6.7
150°-160°	351.4	5.6
160°-170°	233.1	3.7
170°-180°	81.5	1.3
0°-30°	793.4	12.6
0°-40°	1304.6	20.7
0°-60°	2388.7	37.9
0°-90°	3457.0	54.9
90°-120°	878.7	14.0
90°-150°	2172.0	34.5
90°-180°	2838.0	45.1
0°-180°	6295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1022	1018	1009	1018	1016	97
15°	975	978	978	991	989	275
25°	886	896	910	927	932	407
35°	764	789	817	849	860	477
45°	626	666	718	764	778	483
55°	480	533	610	663	682	429
65°	328	400	487	548	567	326
75°	182	264	359	422	442	192
85°	53	145	239	301	322	56
90°	16	110	220	278	296	13
95°	50	126	216	272	289	51
105°	163	208	287	340	356	173
115°	296	317	382	425	440	293
125°	425	432	477	515	527	381
135°	548	556	572	602	612	424
145°	663	668	673	682	687	415
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°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1026.3	1021.9	1011.6	1019.0	1016.0
5°	1021.9	1017.5	1008.6	1017.5	1016.0
7.5°	1014.5	1011.6	1004.2	1014.5	1013.1
10°	1005.7	1002.7	998.3	1010.1	1008.6
12.5°	990.9	992.4	989.4	1001.2	999.8
15°	974.7	977.6	977.6	990.9	989.4
17.5°	954.0	959.9	964.3	977.6	977.6
20°	933.3	940.7	946.6	962.8	962.8
22.5°	911.2	920.0	928.9	945.1	948.1
25°	886.1	896.4	909.7	927.4	931.8
27.5°	856.5	872.8	887.5	909.7	912.6
30°	827.0	846.2	865.4	889.0	893.4
32.5°	794.5	816.6	840.3	868.3	877.2
35°	763.5	788.6	816.6	849.1	859.5
37.5°	729.5	757.6	793.0	828.5	838.8
40°	695.6	728.0	767.9	806.3	819.6
42.5°	663.1	695.6	742.8	785.6	798.9
45°	626.1	666.0	717.7	763.5	778.3
47.5°	590.7	633.5	692.6	739.9	756.1
50°	553.8	599.6	666.0	716.2	732.5
52.5°	518.3	567.1	638.0	689.6	707.4
55°	479.9	533.1	609.9	663.1	682.3
57.5°	443.0	502.1	578.9	636.5	655.7
60°	403.2	466.7	550.8	606.9	627.6
62.5°	367.7	434.2	518.3	578.9	598.1
65°	327.8	400.2	487.3	547.9	567.1
67.5°	292.4	367.7	456.3	516.9	537.5
70°	254.0	330.8	422.4	485.9	503.6
72.5°	218.6	298.3	391.3	453.4	475.5
75°	181.6	264.3	358.9	422.4	441.6
77.5°	146.2	231.9	327.8	391.3	412.0
80°	110.8	200.8	296.8	358.9	379.5
82.5°	81.2	169.8	267.3	329.3	348.5
85°	53.2	144.7	239.2	301.3	321.9
87.5°	32.5	121.1	215.6	276.2	295.4
90°	15.5	109.8	220.3	278.0	296.4
92.5°	29.3	113.4	204.1	262.4	280.2
95°	49.5	126.2	216.3	272.4	288.7
97.5°	73.4	143.5	232.1	286.7	304.5
100°	102.5	163.0	247.9	302.5	318.0
102.5°	131.6	184.6	267.2	321.1	336.6
105°	163.4	208.4	286.7	339.8	356.0
107.5°	196.8	235.1	309.0	360.0	372.5
110°	227.3	261.1	333.5	380.8	394.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	262.1	290.1	357.3	402.4	417.2
115°	296.2	316.9	381.8	425.4	439.5
117.5°	328.8	346.4	404.9	447.0	459.5
120°	362.9	374.6	427.9	469.3	483.4
122.5°	394.1	402.9	453.9	491.6	503.4
125°	425.4	431.9	477.0	514.7	527.3
127.5°	457.3	463.8	500.7	534.8	545.9
130°	487.1	495.0	524.6	558.5	567.4
132.5°	520.5	526.2	549.1	579.4	589.1
135°	548.0	556.0	572.2	602.5	612.1
137.5°	580.0	586.5	595.3	622.6	630.1
140°	608.3	613.3	619.9	643.5	649.4
142.5°	637.3	642.3	644.5	662.9	667.4
145°	663.4	668.4	672.8	682.4	686.8
147.5°	688.0	694.6	697.5	700.4	701.9
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)