

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: P1029559

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-F1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029559
REPORT IS A COMBINATION OF REPORTS P986228 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D710UB2750-4F0-XX-W2A-F1_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

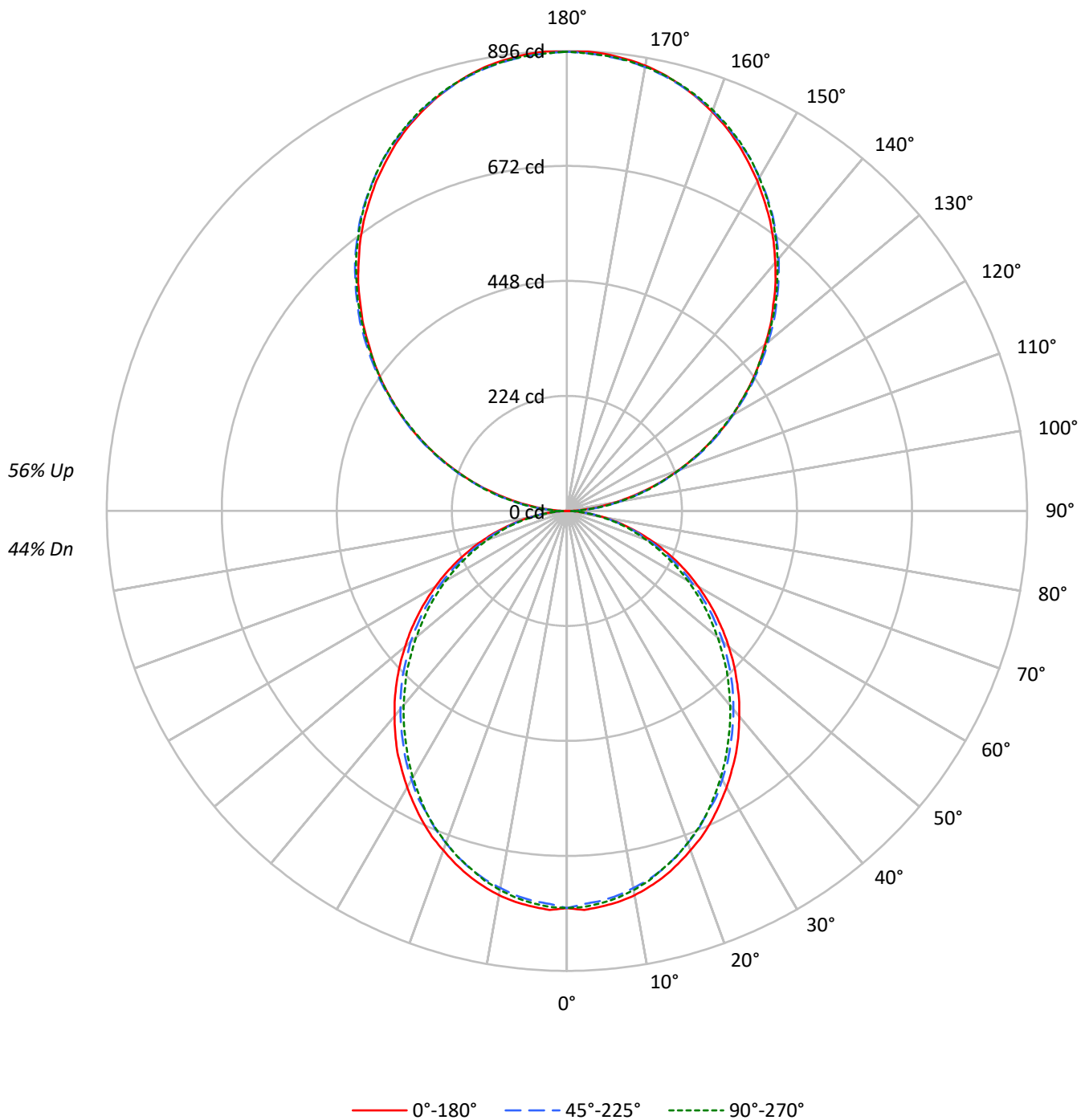
Lumens per Lamp: N/A
Luminaire Lumens: 4471.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 47.2
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	38	36
3	80	71	63	58	73	65	59	54	54	50	46	44	41	38	35	33	31
4	73	63	55	49	67	58	51	45	48	43	39	39	36	33	31	29	26
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	26	23	20
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	27	23	27	22	19	21	18	16
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12244	12244	12244
5°	12264	11672	11588
10°	12164	11139	10918
15°	11986	10603	10214
20°	11745	10020	9546
25°	11505	9411	8879
30°	11204	8840	8180
35°	10918	8236	7492
40°	10567	7641	6843
45°	10217	7050	6206
50°	9836	6449	5545
55°	9433	5807	4919
60°	8982	5109	4268
65°	8489	4404	3584
70°	7860	3628	2894
75°	6993	2796	2236
80°	5940	1900	1438
85°	4308	884	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10217 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.6
10°-20°	204.8	4.6
20°-30°	301.0	6.7
30°-40°	349.6	7.8
40°-50°	349.2	7.8
50°-60°	304.5	6.8
60°-70°	225.1	5.0
70°-80°	127.3	2.8
80°-90°	36.2	0.8
90°-100°	55.3	1.2
100°-110°	175.9	3.9
110°-120°	300.9	6.7
120°-130°	395.8	8.9
130°-140°	444.3	9.9
140°-150°	435.7	9.7
150°-160°	365.5	8.2
160°-170°	242.4	5.4
170°-180°	84.7	1.9
0°-30°	578.7	12.9
0°-40°	928.3	20.8
0°-60°	1582.0	35.4
0°-90°	1970.5	44.1
90°-120°	532.2	11.9
90°-150°	1807.9	40.4
90°-180°	2500.0	55.9
0°-180°	4471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	774	771	762	768	767	73
15°	736	732	722	725	722	207
25°	666	660	648	649	648	307
35°	575	568	556	551	547	359
45°	468	463	452	443	440	361
55°	354	350	341	332	328	317
65°	239	234	227	220	216	236
75°	125	124	120	115	117	133
85°	30	30	29	27	26	34
90°	1	10	26	25	26	4
95°	39	47	48	48	47	44
105°	162	164	166	168	168	171
115°	302	306	305	304	302	299
125°	439	446	444	442	441	393
135°	568	577	578	577	575	439
145°	690	695	700	700	697	431
155°	789	791	793	797	795	363
165°	858	857	857	863	859	242
175°	893	891	889	894	890	85
180°	894	894	894	894	894	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.5	773.5	773.5	773.5	773.5
2.5°	778.0	774.3	766.1	773.5	772.0
5°	773.5	770.6	762.4	768.3	766.8
7.5°	768.3	763.9	755.7	761.6	760.1
10°	760.1	754.9	746.0	752.0	749.7
12.5°	749.0	744.5	735.6	739.3	737.8
15°	736.3	731.9	722.2	725.2	721.5
17.5°	720.7	716.3	706.6	710.3	706.6
20°	703.6	699.2	688.7	691.0	688.0
22.5°	686.5	679.8	670.2	670.2	668.7
25°	666.4	660.5	647.8	649.3	647.8
27.5°	644.1	638.9	629.2	627.0	623.3
30°	621.8	615.9	604.7	602.5	599.5
32.5°	598.0	593.5	581.6	577.2	574.2
35°	574.9	567.5	555.6	551.1	547.4
37.5°	548.9	542.2	530.3	525.1	521.4
40°	522.1	516.2	504.3	497.6	494.6
42.5°	496.1	490.2	478.3	470.8	466.4
45°	467.8	462.6	451.5	443.3	440.3
47.5°	440.3	435.1	423.2	415.0	410.6
50°	411.3	407.6	397.2	386.8	383.0
52.5°	383.0	377.8	368.2	360.0	354.8
55°	354.0	349.6	340.7	331.7	328.0
57.5°	325.0	321.3	311.6	302.7	299.7
60°	296.0	293.1	282.6	274.5	272.2
62.5°	267.8	262.6	255.1	247.7	244.7
65°	238.8	234.3	226.9	220.2	216.4
67.5°	209.0	205.3	198.6	193.4	190.4
70°	181.5	178.5	171.8	166.6	163.6
72.5°	153.2	150.2	146.5	141.3	139.1
75°	125.0	123.5	119.7	115.3	116.8
77.5°	99.7	96.7	95.2	93.0	90.7
80°	74.4	73.6	72.1	69.9	68.4
82.5°	50.6	50.6	49.8	46.9	46.9
85°	30.5	29.8	29.0	26.8	26.0
87.5°	13.4	11.9	10.4	8.2	7.4
90°	0.8	9.8	26.4	24.9	25.7
92.5°	16.6	22.6	23.4	24.2	24.2
95°	39.2	46.8	48.3	48.3	46.8
97.5°	65.7	72.5	75.5	75.5	75.5
100°	95.9	101.9	104.2	104.2	103.4
102.5°	127.5	132.1	135.1	135.9	135.1
105°	162.3	164.5	166.0	167.6	167.6
107.5°	197.0	200.0	200.0	200.8	197.0
110°	230.2	234.7	234.7	234.7	232.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.4	270.9	270.2	267.9	266.4
115°	301.9	306.4	304.9	304.2	301.9
117.5°	337.4	343.4	339.6	337.4	335.1
120°	372.8	378.9	372.8	372.8	370.6
122.5°	405.3	412.8	409.1	406.8	405.3
125°	439.3	446.0	443.8	441.5	440.8
127.5°	472.5	480.8	477.7	474.7	472.5
130°	503.4	513.2	511.7	510.2	507.2
132.5°	538.1	545.7	546.4	542.7	540.4
135°	568.3	576.6	578.1	577.4	575.1
137.5°	601.5	608.3	609.8	609.1	606.1
140°	631.0	637.7	641.5	641.5	638.5
142.5°	661.1	667.9	670.2	671.0	667.9
145°	689.8	695.1	699.6	700.4	697.4
147.5°	715.5	722.3	725.3	726.8	723.8
150°	741.9	746.4	749.4	751.7	749.4
152.5°	765.3	769.8	773.6	776.6	773.6
155°	788.7	791.0	793.2	797.0	794.7
157.5°	809.1	810.6	812.1	817.4	813.6
160°	827.2	828.7	829.5	834.0	831.0
162.5°	843.8	843.8	844.5	849.8	846.1
165°	858.1	857.4	857.4	862.7	858.9
167.5°	871.0	868.7	868.7	874.0	870.2
170°	880.8	878.5	877.8	883.0	878.5
172.5°	887.6	885.3	884.5	889.8	885.3
175°	892.8	890.6	889.1	894.4	889.8
177.5°	895.9	893.6	892.1	896.6	892.1
180°	894.4	894.4	894.4	894.4	894.4

(END OF REPORT)