

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: P1029564

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029564
REPORT IS A COMBINATION OF REPORTS P986238 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-F_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

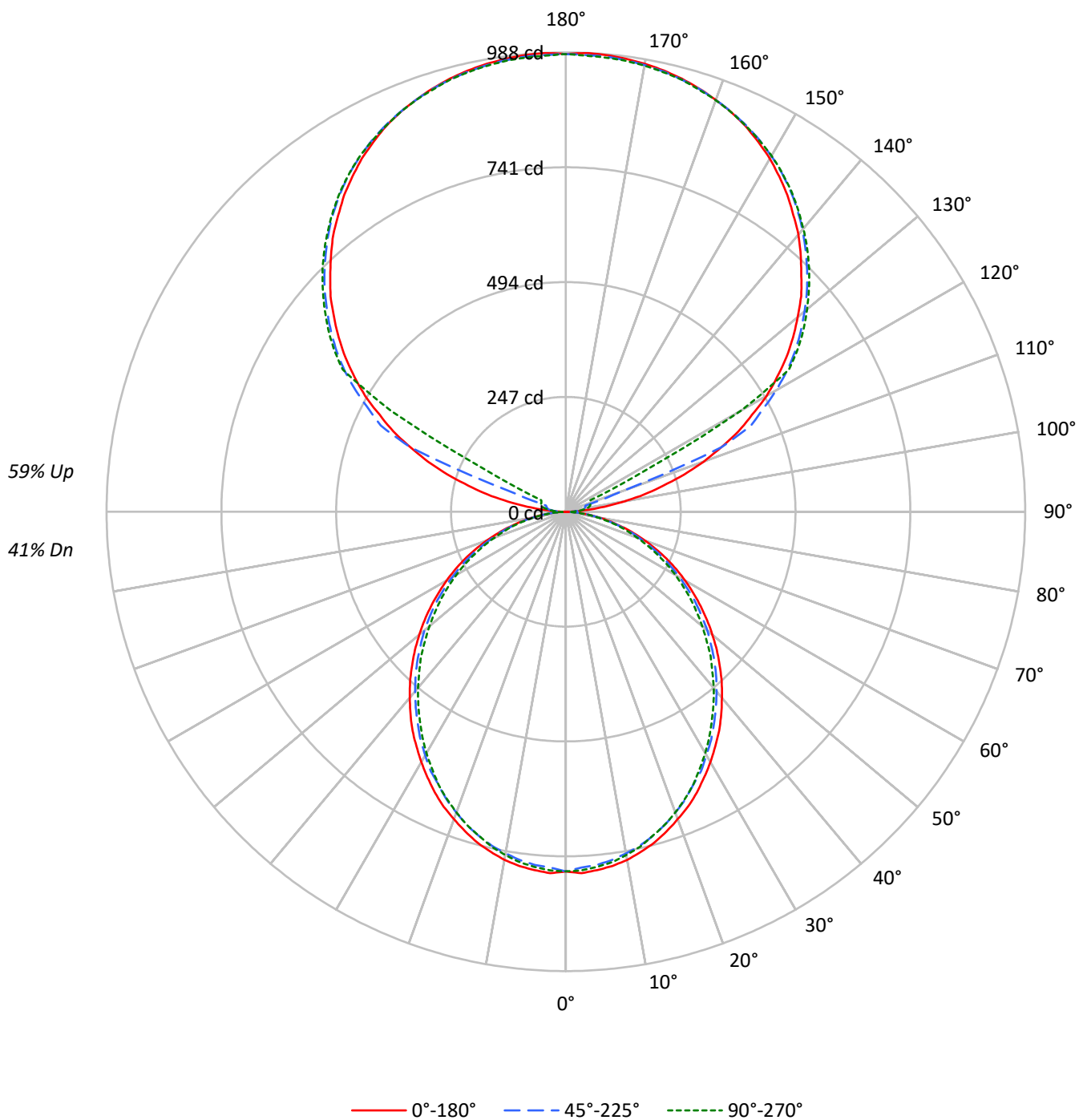
Lumens per Lamp: N/A
Luminaire Lumens: 4855.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47			41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40			34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34			29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	36	33	31	29			24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25			21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22			18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19			16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17			14
8	53	40	33	28	48	37	30	26	31	26	22	25	21	19	20	17	15			13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	14			11
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12			10

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	1.5
10°-20°	204.8	4.2
20°-30°	301.0	6.2
30°-40°	349.6	7.2
40°-50°	349.2	7.2
50°-60°	304.5	6.3
60°-70°	225.1	4.6
70°-80°	127.3	2.6
80°-90°	35.3	0.7
90°-100°	32.5	0.7
100°-110°	121.0	2.5
110°-120°	320.9	6.6
120°-130°	532.2	11.0
130°-140°	565.3	11.6
140°-150°	525.4	10.8
150°-160°	422.4	8.7
160°-170°	272.2	5.6
170°-180°	93.7	1.9
0°-30°	578.7	11.9
0°-40°	928.3	19.1
0°-60°	1582.0	32.6
0°-90°	1969.7	40.6
90°-120°	474.3	9.8
90°-150°	2097.1	43.2
90°-180°	2885.0	59.4
0°-180°	4855.0	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	8	14	18	19	4
95°	46	23	28	31	31	55
105°	216	238	43	51	54	231
115°	410	422	439	110	58	403
125°	579	588	602	607	609	516
135°	716	728	734	741	740	553
145°	831	830	842	847	844	520
155°	915	909	917	922	916	422
165°	964	960	962	967	962	272
175°	986	981	983	988	981	94
180°	984	984	984	984	984	

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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°	0.7	8.5	14.2	17.8	19.2
92.5°	17.8	15.0	17.1	18.5	19.2
95°	46.3	22.8	27.8	31.3	30.6
97.5°	83.3	24.9	36.3	38.5	39.2
100°	126.0	28.5	40.6	46.3	47.7
102.5°	173.1	171.6	42.0	49.8	52.0
105°	216.5	237.9	43.4	51.3	54.1
107.5°	267.1	284.9	44.9	52.7	55.5
110°	315.5	330.4	124.6	53.4	56.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	361.1	373.9	361.8	54.8	57.0
115°	409.5	421.6	439.4	109.7	58.4
117.5°	451.5	465.7	477.8	376.0	189.4
120°	498.5	509.2	522.0	530.5	434.4
122.5°	538.4	549.8	564.0	568.3	569.0
125°	579.0	588.2	601.8	606.7	608.9
127.5°	616.0	626.0	636.7	643.8	644.5
130°	650.9	662.3	670.1	678.0	677.2
132.5°	686.5	695.8	703.6	710.0	709.3
135°	716.4	727.8	734.2	741.3	739.9
137.5°	747.7	756.3	763.4	770.5	768.4
140°	778.4	784.1	791.9	798.3	794.7
142.5°	804.0	809.0	818.3	823.9	820.4
145°	831.1	830.4	842.5	847.4	843.9
147.5°	854.6	852.4	864.5	868.1	865.3
150°	877.4	872.4	883.8	888.0	884.5
152.5°	896.6	890.9	901.6	905.8	900.9
155°	915.1	908.7	917.2	921.5	915.8
157.5°	930.1	924.4	930.8	935.8	930.1
160°	942.9	938.6	942.9	947.1	942.2
162.5°	954.3	950.0	953.6	958.5	952.1
165°	964.2	960.0	962.1	967.1	962.1
167.5°	972.1	967.8	969.9	974.9	968.5
170°	978.5	974.2	975.6	980.6	974.2
172.5°	982.8	978.5	979.9	984.9	978.5
175°	986.3	981.3	982.8	987.7	980.6
177.5°	987.7	982.8	983.5	988.5	982.0
180°	984.2	984.2	984.2	984.2	984.2

(END OF REPORT)