

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: P1029389

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029389
REPORT IS A COMBINATION OF REPORTS P985700 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D435UB2750-4F0-XX-W2A-F_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

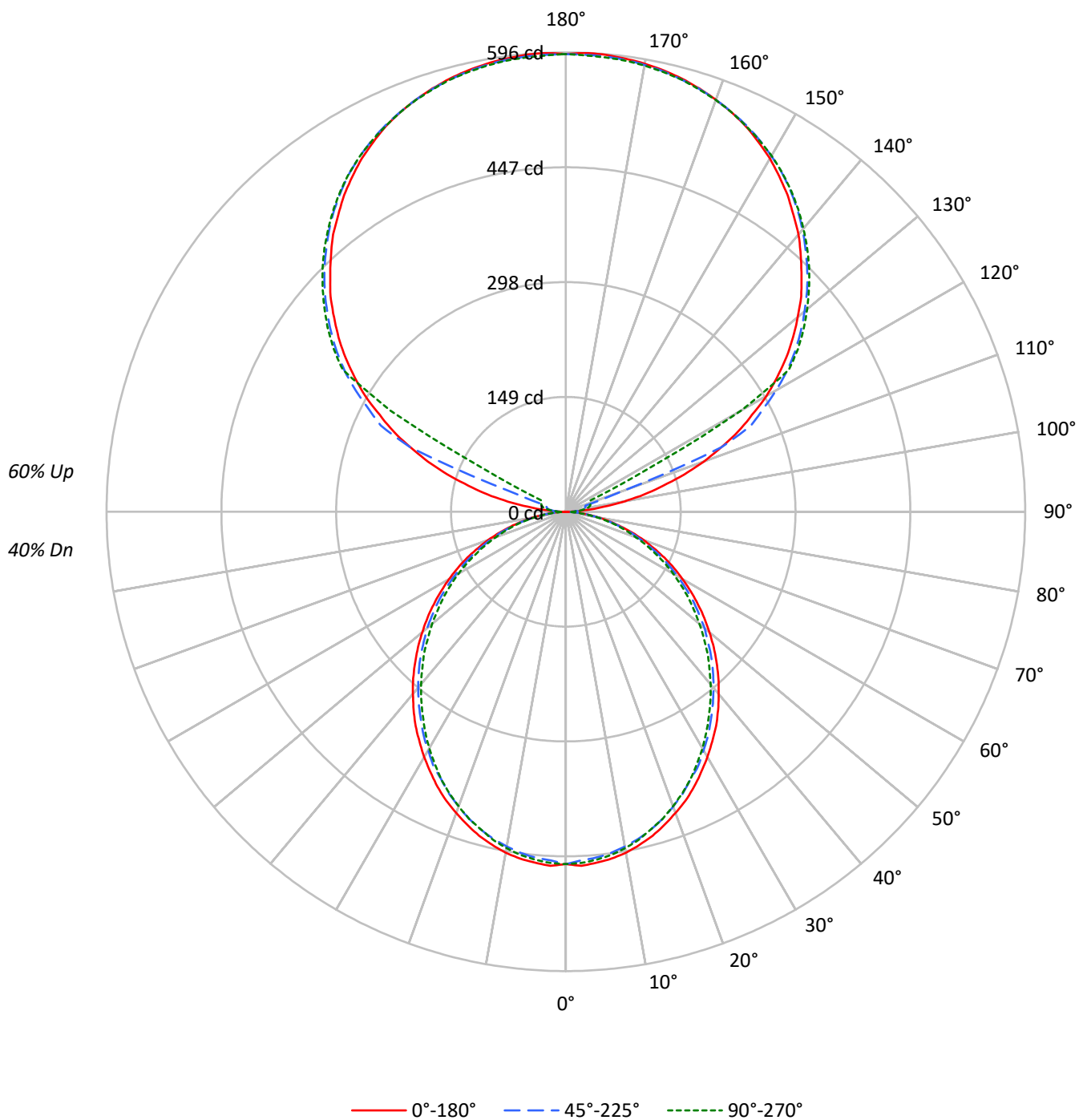
Lumens per Lamp: N/A
Luminaire Lumens: 2905.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 26.2
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	95	95	95	95	78	78	78	62	62	62	47	47	47			40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40			34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	33			28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28			24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	26	24			21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	23	21			18
6	61	49	41	36	56	45	38	33	38	32	28	30	26	23	24	21	19			16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17			14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15			12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13			11
10	46	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12			10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7236	7236	7236
5°	7247	6897	6849
10°	7189	6583	6453
15°	7083	6266	6036
20°	6941	5921	5641
25°	6799	5561	5247
30°	6622	5223	4834
35°	6453	4866	4428
40°	6246	4515	4044
45°	6039	4166	3667
50°	5813	3811	3278
55°	5574	3431	2907
60°	5307	3019	2523
65°	5016	2603	2118
70°	4643	2144	1711
75°	4128	1654	1321
80°	3513	1123	849
85°	2543	521	362

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6039 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.5
10°-20°	121.1	4.2
20°-30°	177.9	6.1
30°-40°	206.6	7.1
40°-50°	206.4	7.1
50°-60°	179.9	6.2
60°-70°	133.0	4.6
70°-80°	75.3	2.6
80°-90°	20.9	0.7
90°-100°	19.6	0.7
100°-110°	73.0	2.5
110°-120°	193.6	6.7
120°-130°	321.1	11.1
130°-140°	341.1	11.7
140°-150°	317.0	10.9
150°-160°	254.9	8.8
160°-170°	164.2	5.7
170°-180°	56.5	1.9
0°-30°	342.0	11.8
0°-40°	548.6	18.9
0°-60°	934.9	32.2
0°-90°	1164.0	40.1
90°-120°	286.2	9.9
90°-150°	1265.3	43.6
90°-180°	1741.0	59.9
0°-180°	2905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	457	455	450	454	453	43
15°	435	432	427	429	426	123
25°	394	390	383	384	383	181
35°	340	335	328	326	324	212
45°	276	273	267	262	260	213
55°	209	207	201	196	194	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	0	5	9	11	12	3
95°	28	14	17	19	18	33
105°	131	144	26	31	33	140
115°	247	254	265	66	35	243
125°	349	355	363	366	367	312
135°	432	439	443	447	446	334
145°	502	501	508	511	509	314
155°	552	548	554	556	553	254
165°	582	579	580	584	580	164
175°	595	592	593	596	592	57
180°	594	594	594	594	594	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.1	457.1	457.1	457.1	457.1
2.5°	459.8	457.6	452.7	457.1	456.2
5°	457.1	455.4	450.5	454.0	453.2
7.5°	454.0	451.4	446.6	450.1	449.2
10°	449.2	446.1	440.9	444.4	443.1
12.5°	442.6	440.0	434.7	436.9	436.0
15°	435.1	432.5	426.8	428.6	426.4
17.5°	425.9	423.3	417.6	419.8	417.6
20°	415.8	413.2	407.0	408.3	406.6
22.5°	405.7	401.7	396.0	396.0	395.1
25°	393.8	390.3	382.8	383.7	382.8
27.5°	380.6	377.6	371.9	370.5	368.3
30°	367.5	363.9	357.3	356.0	354.3
32.5°	353.4	350.8	343.7	341.1	339.3
35°	339.8	335.4	328.3	325.7	323.5
37.5°	324.4	320.4	313.4	310.3	308.1
40°	308.6	305.0	298.0	294.1	292.3
42.5°	293.2	289.7	282.6	278.2	275.6
45°	276.5	273.4	266.8	262.0	260.2
47.5°	260.2	257.1	250.1	245.3	242.6
50°	243.1	240.9	234.7	228.6	226.4
52.5°	226.4	223.3	217.6	212.7	209.7
55°	209.2	206.6	201.3	196.0	193.8
57.5°	192.1	189.9	184.2	178.9	177.1
60°	174.9	173.2	167.0	162.2	160.9
62.5°	158.2	155.2	150.8	146.4	144.6
65°	141.1	138.5	134.1	130.1	127.9
67.5°	123.5	121.3	117.4	114.3	112.5
70°	107.2	105.5	101.5	98.5	96.7
72.5°	90.5	88.8	86.6	83.5	82.2
75°	73.8	73.0	70.8	68.1	69.0
77.5°	58.9	57.1	56.3	54.9	53.6
80°	44.0	43.5	42.6	41.3	40.4
82.5°	29.9	29.9	29.4	27.7	27.7
85°	18.0	17.6	17.1	15.8	15.4
87.5°	7.9	7.0	6.2	4.8	4.4
90°	0.4	5.2	8.6	10.7	11.6
92.5°	10.7	9.0	10.3	11.2	11.6
95°	27.9	13.8	16.8	18.9	18.5
97.5°	50.3	15.0	21.9	23.2	23.6
100°	76.1	17.2	24.5	27.9	28.8
102.5°	104.4	103.6	25.4	30.1	31.4
105°	130.6	143.5	26.2	30.9	32.7
107.5°	161.1	171.9	27.1	31.8	33.5
110°	190.4	199.4	75.2	32.2	33.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.9	225.6	218.3	33.1	34.4
115°	247.1	254.4	265.1	66.2	35.2
117.5°	272.4	281.0	288.3	226.9	114.3
120°	300.8	307.2	315.0	320.1	262.1
122.5°	324.9	331.7	340.3	342.9	343.3
125°	349.3	354.9	363.1	366.1	367.4
127.5°	371.7	377.7	384.2	388.5	388.9
130°	392.7	399.6	404.3	409.1	408.6
132.5°	414.2	419.8	424.5	428.4	428.0
135°	432.3	439.2	443.0	447.3	446.5
137.5°	451.2	456.3	460.6	464.9	463.6
140°	469.7	473.1	477.8	481.7	479.5
142.5°	485.1	488.1	493.7	497.2	495.0
145°	501.5	501.0	508.3	511.3	509.2
147.5°	515.6	514.4	521.7	523.8	522.1
150°	529.4	526.4	533.3	535.8	533.7
152.5°	541.0	537.6	544.0	546.6	543.6
155°	552.2	548.3	553.5	556.0	552.6
157.5°	561.2	557.8	561.6	564.6	561.2
160°	568.9	566.3	568.9	571.5	568.5
162.5°	575.8	573.2	575.4	578.4	574.5
165°	581.8	579.2	580.5	583.5	580.5
167.5°	586.5	584.0	585.3	588.3	584.4
170°	590.4	587.8	588.7	591.7	587.8
172.5°	593.0	590.4	591.3	594.3	590.4
175°	595.1	592.1	593.0	596.0	591.7
177.5°	596.0	593.0	593.4	596.4	592.6
180°	593.8	593.8	593.8	593.8	593.8

(END OF REPORT)