

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: P1029373

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029373
REPORT IS A COMBINATION OF REPORTS P985674 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-D1_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

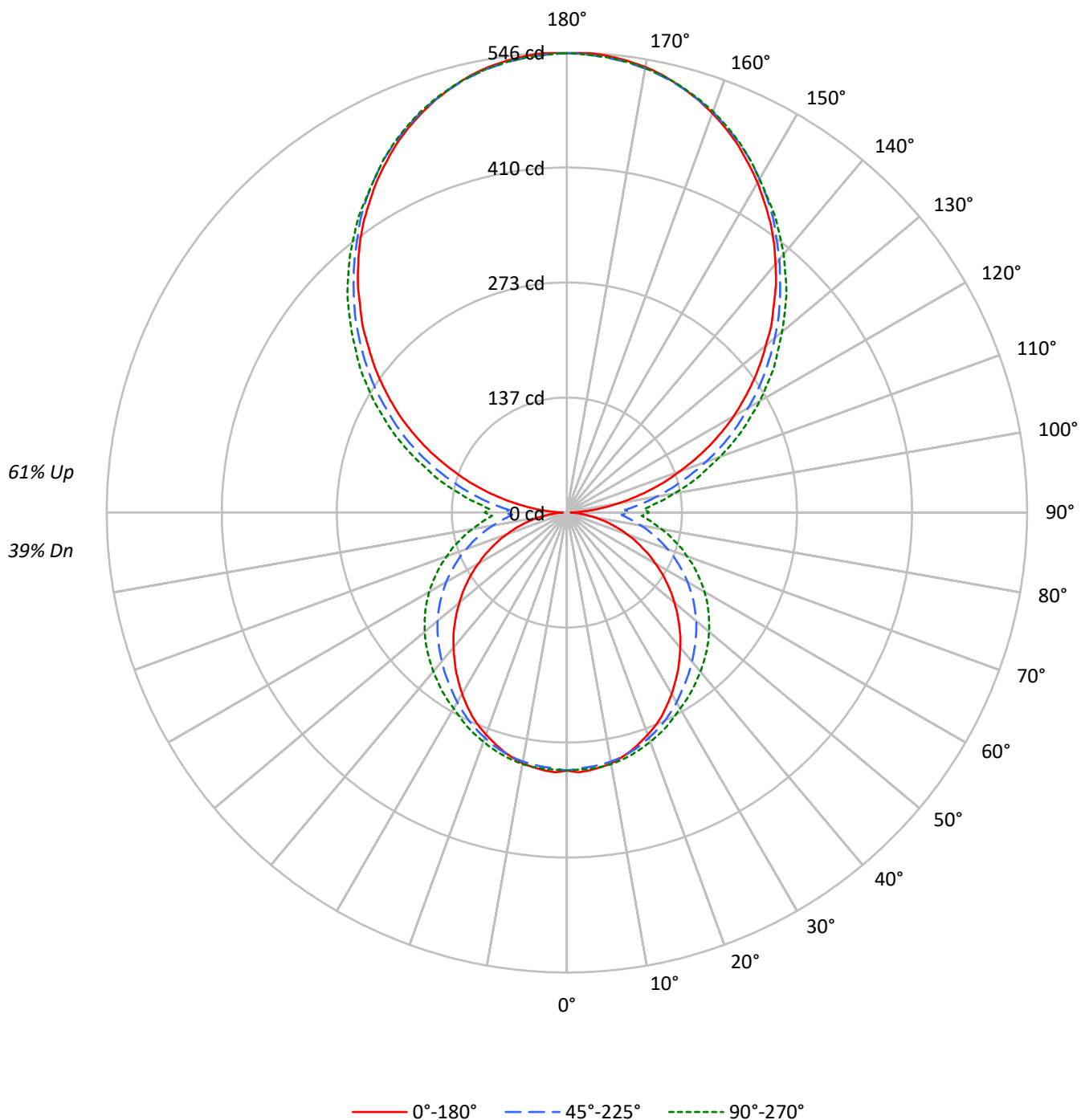
Lumens per Lamp: N/A
Luminaire Lumens: 2695.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46			39
1	94	89	85	81	85	81	77	74	66	63	61	52	50	48	38	37	36			30
2	85	77	71	65	77	70	65	60	57	53	49	45	42	39	33	31	30			24
3	77	68	60	54	70	61	55	49	50	45	41	39	36	33	29	27	25			20
4	71	59	51	45	64	54	47	42	44	39	34	34	31	28	26	23	21			17
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18			14
6	59	47	39	33	54	43	36	30	35	30	25	28	24	21	21	18	16			13
7	55	42	34	29	49	39	32	26	32	26	22	25	21	18	19	16	14			11
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	14	12			10
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11			9
10	44	32	25	20	40	29	23	18	24	19	16	19	15	13	15	12	10			8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4850	4850	4850
5°	4872	4643	4617
10°	4839	4483	4417
15°	4770	4315	4212
20°	4684	4141	4017
25°	4599	3973	3840
30°	4479	3804	3665
35°	4360	3639	3537
40°	4232	3498	3409
45°	4112	3370	3298
50°	3982	3252	3188
55°	3845	3126	3076
60°	3678	2994	2959
65°	3505	2843	2824
70°	3309	2682	2678
75°	3054	2520	2542
80°	2659	2351	2399
85°	2260	2192	2276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	1.1
10°-20°	83.3	3.1
20°-30°	126.2	4.7
30°-40°	153.7	5.7
40°-50°	165.4	6.1
50°-60°	160.6	6.0
60°-70°	140.2	5.2
70°-80°	108.0	4.0
80°-90°	73.8	2.7
90°-100°	83.6	3.1
100°-110°	143.7	5.3
110°-120°	207.5	7.7
120°-130°	254.7	9.5
130°-140°	276.5	10.3
140°-150°	266.6	9.9
150°-160°	222.8	8.3
160°-170°	147.8	5.5
170°-180°	51.6	1.9
0°-30°	238.5	8.9
0°-40°	392.2	14.6
0°-60°	718.2	26.6
0°-90°	1040.2	38.6
90°-120°	434.8	16.1
90°-150°	1232.5	45.7
90°-180°	1655.0	61.4
0°-180°	2695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	306	306	306	306	306	
5°	307	306	303	306	306	29
15°	293	294	294	298	298	83
25°	266	270	274	279	280	123
35°	230	237	246	255	258	143
45°	188	200	216	230	234	145
55°	144	160	183	199	205	129
65°	99	120	146	165	170	98
75°	55	80	108	127	133	58
85°	16	44	72	91	97	17
90°	5	36	75	92	97	5
95°	28	53	80	97	102	29
105°	101	115	139	156	161	107
115°	186	194	212	225	229	184
125°	269	273	286	296	300	240
135°	347	352	357	366	368	268
145°	421	424	426	430	430	263
155°	481	482	484	486	484	221
165°	523	523	523	526	524	148
175°	544	543	542	545	542	52
180°	545	545	545	545	545	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	306.4	306.4	306.4	306.4	306.4
2.5°	308.6	307.3	304.1	306.4	305.5
5°	307.3	305.9	303.3	305.9	305.5
7.5°	305.0	304.1	301.9	305.0	304.6
10°	302.4	301.5	300.2	303.7	303.3
12.5°	297.9	298.4	297.5	301.0	300.6
15°	293.0	293.9	293.9	297.9	297.5
17.5°	286.8	288.6	289.9	293.9	293.9
20°	280.6	282.8	284.6	289.5	289.5
22.5°	274.0	276.6	279.3	284.2	285.1
25°	266.4	269.5	273.5	278.8	280.2
27.5°	257.5	262.4	266.9	273.5	274.4
30°	248.6	254.4	260.2	267.3	268.6
32.5°	238.9	245.5	252.6	261.1	263.7
35°	229.6	237.1	245.5	255.3	258.4
37.5°	219.3	227.8	238.4	249.1	252.2
40°	209.1	218.9	230.9	242.4	246.4
42.5°	199.4	209.1	223.3	236.2	240.2
45°	188.3	200.3	215.8	229.6	234.0
47.5°	177.6	190.5	208.2	222.5	227.3
50°	166.5	180.3	200.3	215.3	220.2
52.5°	155.8	170.5	191.8	207.4	212.7
55°	144.3	160.3	183.4	199.4	205.1
57.5°	133.2	151.0	174.1	191.4	197.1
60°	121.2	140.3	165.6	182.5	188.7
62.5°	110.6	130.5	155.8	174.1	179.8
65°	98.6	120.3	146.5	164.7	170.5
67.5°	87.9	110.6	137.2	155.4	161.6
70°	76.4	99.5	127.0	146.1	151.4
72.5°	65.7	89.7	117.7	136.3	143.0
75°	54.6	79.5	107.9	127.0	132.8
77.5°	44.0	69.7	98.6	117.7	123.9
80°	33.3	60.4	89.2	107.9	114.1
82.5°	24.4	51.1	80.4	99.0	104.8
85°	16.0	43.5	71.9	90.6	96.8
87.5°	9.8	36.4	64.8	83.0	88.8
90°	4.9	36.2	74.7	91.6	97.3
92.5°	14.1	41.3	68.9	86.6	92.0
95°	27.5	52.9	80.5	97.3	101.8
97.5°	43.1	66.4	94.0	110.4	115.7
100°	61.5	81.6	107.9	124.3	128.7
102.5°	80.5	97.8	123.7	140.1	144.6
105°	101.1	115.4	139.4	155.9	160.8
107.5°	122.3	134.8	157.0	172.6	175.2
110°	142.1	153.8	175.5	189.7	193.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.2	174.1	194.0	206.8	210.8
115°	185.9	193.5	212.5	225.4	228.9
117.5°	207.0	214.3	230.6	242.6	245.6
120°	228.6	234.1	248.2	260.6	264.1
122.5°	248.4	253.5	267.6	278.2	281.3
125°	268.7	272.8	285.7	296.3	299.8
127.5°	288.9	293.5	303.7	312.9	315.5
130°	307.8	313.3	321.8	331.5	333.2
132.5°	329.0	333.1	340.2	348.1	350.4
135°	346.9	351.9	357.4	366.2	368.4
137.5°	367.1	371.3	374.5	382.4	383.7
140°	385.1	388.8	392.0	399.1	400.0
142.5°	403.5	407.2	408.6	414.4	414.7
145°	420.6	423.8	426.5	429.7	430.1
147.5°	436.2	440.4	442.2	443.5	443.1
150°	452.3	455.1	456.9	458.3	456.9
152.5°	466.6	469.3	471.6	473.5	471.6
155°	480.8	482.2	483.6	485.9	484.5
157.5°	493.3	494.2	495.1	498.3	496.0
160°	504.3	505.2	505.7	508.5	506.6
162.5°	514.4	514.4	514.9	518.1	515.8
165°	523.2	522.7	522.7	525.9	523.6
167.5°	531.0	529.6	529.6	532.8	530.5
170°	537.0	535.6	535.1	538.4	535.6
172.5°	541.1	539.7	539.3	542.5	539.7
175°	544.3	543.0	542.0	545.3	542.5
177.5°	546.2	544.8	543.9	546.6	543.9
180°	545.3	545.3	545.3	545.3	545.3

(END OF REPORT)