

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: P1029378

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029378
REPORT IS A COMBINATION OF REPORTS P985684 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-D_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

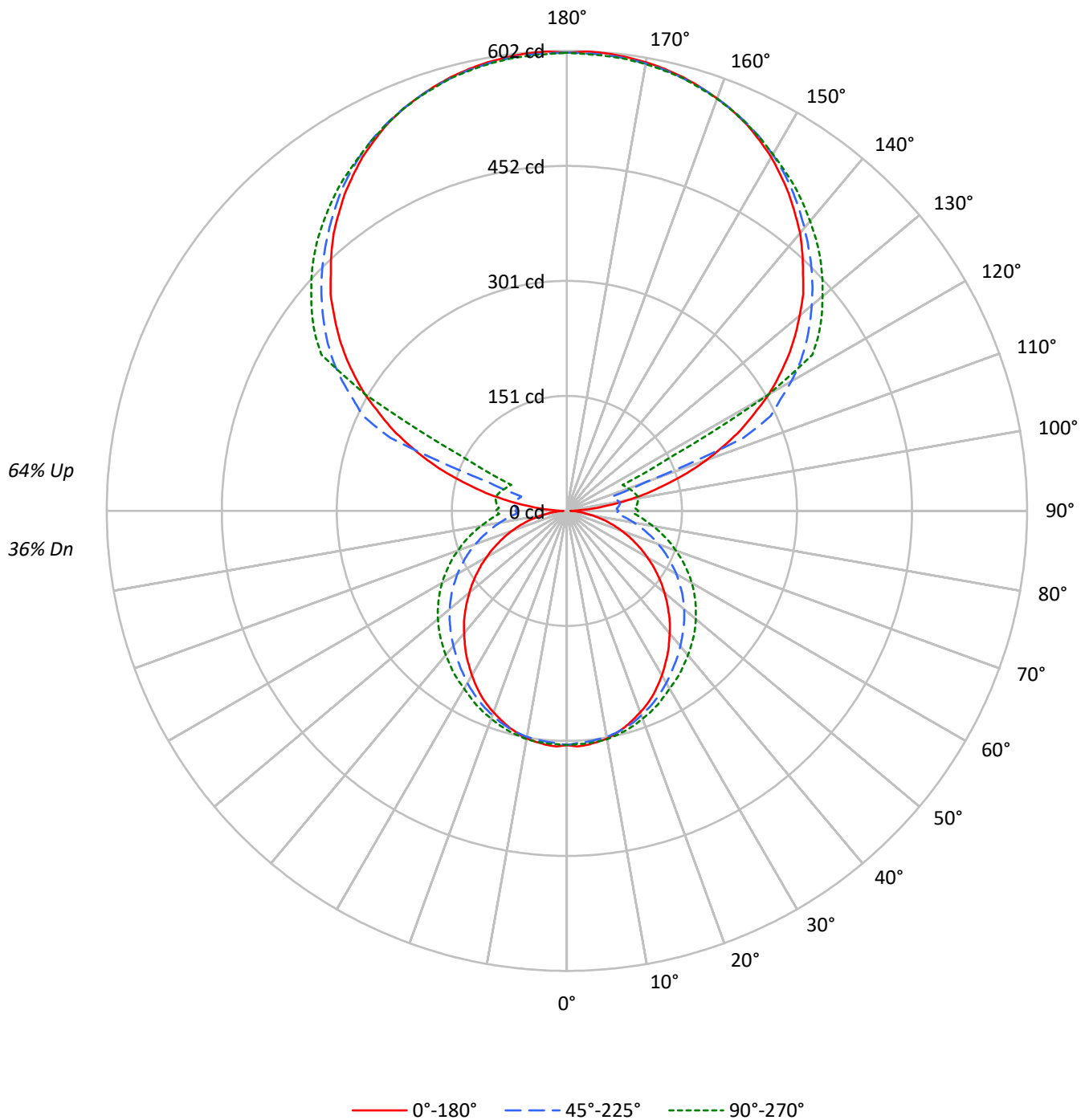
Lumens per Lamp: N/A
Luminaire Lumens: 2928.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1029378

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-D_3500K

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	94	94	94	94	75	75	75	58	58	58	43	43	43			36
1	93	89	85	81	84	80	77	73	64	62	59	50	48	46	36	35	34			28
2	85	77	70	65	76	70	64	59	56	52	48	43	40	38	31	29	28			22
3	77	67	60	54	69	61	54	49	49	44	40	38	34	31	27	25	23			18
4	70	59	51	45	63	54	47	41	43	38	34	33	30	27	24	22	20			16
5	64	52	44	38	58	48	40	35	38	33	29	30	26	23	22	19	17			13
6	59	47	39	33	53	43	35	30	34	29	25	27	23	20	20	17	15			12
7	54	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13			10
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12			9
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10			8
10	44	32	24	20	39	29	22	18	24	19	15	19	15	12	14	11	9			7

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

TEST NUMBER: P1029378

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-D_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	1.0
10°-20°	83.3	2.8
20°-30°	126.2	4.3
30°-40°	153.7	5.2
40°-50°	165.4	5.6
50°-60°	160.6	5.5
60°-70°	140.2	4.8
70°-80°	108.0	3.7
80°-90°	73.3	2.5
90°-100°	69.6	2.4
100°-110°	110.1	3.8
110°-120°	219.5	7.5
120°-130°	337.6	11.5
130°-140°	350.0	12.0
140°-150°	321.0	11.0
150°-160°	257.3	8.8
160°-170°	165.8	5.7
170°-180°	57.1	1.9
0°-30°	238.5	8.1
0°-40°	392.2	13.4
0°-60°	718.2	24.5
0°-90°	1039.7	35.5
90°-120°	399.3	13.6
90°-150°	1408.0	48.1
90°-180°	1888.0	64.5
0°-180°	2928.0	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	35	67	87	93	5
95°	32	38	68	87	92	36
105°	134	160	65	85	92	143
115°	251	264	294	107	80	247
125°	354	359	382	397	402	316
135°	437	444	452	466	469	338
145°	506	506	513	519	519	317
155°	558	554	559	562	558	257
165°	588	585	586	589	586	166
175°	601	598	599	602	598	57
180°	600	600	600	600	600	

TEST NUMBER: P1029378

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-D_3500K

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°	4.8	35.4	67.3	87.2	93.4
92.5°	14.8	36.6	65.0	83.2	89.0
95°	31.8	38.3	68.0	87.0	92.0
97.5°	53.9	37.4	70.1	87.8	93.6
100°	79.9	36.9	69.1	89.0	94.8
102.5°	108.1	121.9	66.9	87.7	93.9
105°	134.1	160.0	64.7	84.9	91.6
107.5°	164.9	186.5	62.4	82.3	88.9
110°	194.0	212.0	108.3	79.1	85.8

TEST NUMBER: P1029378

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.8	236.7	249.7	76.9	83.1
115°	251.3	263.6	294.3	106.8	80.4
117.5°	276.4	288.7	314.6	266.0	156.7
120°	305.0	313.3	338.9	356.6	302.9
122.5°	329.3	336.8	361.8	376.4	380.9
125°	353.7	359.3	381.7	396.8	402.1
127.5°	376.2	381.8	400.3	415.7	420.2
130°	397.5	403.9	418.1	433.5	436.6
132.5°	419.2	424.3	435.8	449.9	453.1
135°	436.9	443.8	452.2	465.9	468.6
137.5°	456.0	461.2	467.8	480.6	482.4
140°	474.6	477.7	483.4	494.4	494.9
142.5°	490.3	492.9	498.5	507.3	507.3
145°	506.4	505.9	513.3	519.0	519.1
147.5°	520.7	519.4	526.7	529.3	529.0
150°	534.6	531.5	538.5	541.1	538.9
152.5°	546.3	542.8	549.3	551.9	548.9
155°	557.6	553.7	558.9	561.5	558.0
157.5°	566.7	563.2	567.1	570.1	566.7
160°	574.5	571.9	574.5	577.1	574.0
162.5°	581.4	578.8	581.0	584.0	580.1
165°	587.5	584.9	586.2	589.2	586.2
167.5°	592.3	589.7	591.0	594.0	590.1
170°	596.2	593.6	594.4	597.5	593.6
172.5°	598.8	596.2	597.0	600.1	596.2
175°	600.9	597.9	598.8	601.8	597.5
177.5°	601.8	598.8	599.2	602.2	598.3
180°	599.6	599.6	599.6	599.6	599.6

(END OF REPORT)