

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: P1029403

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029403
REPORT IS A COMBINATION OF REPORTS P985764 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D710UB2750-4F0-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

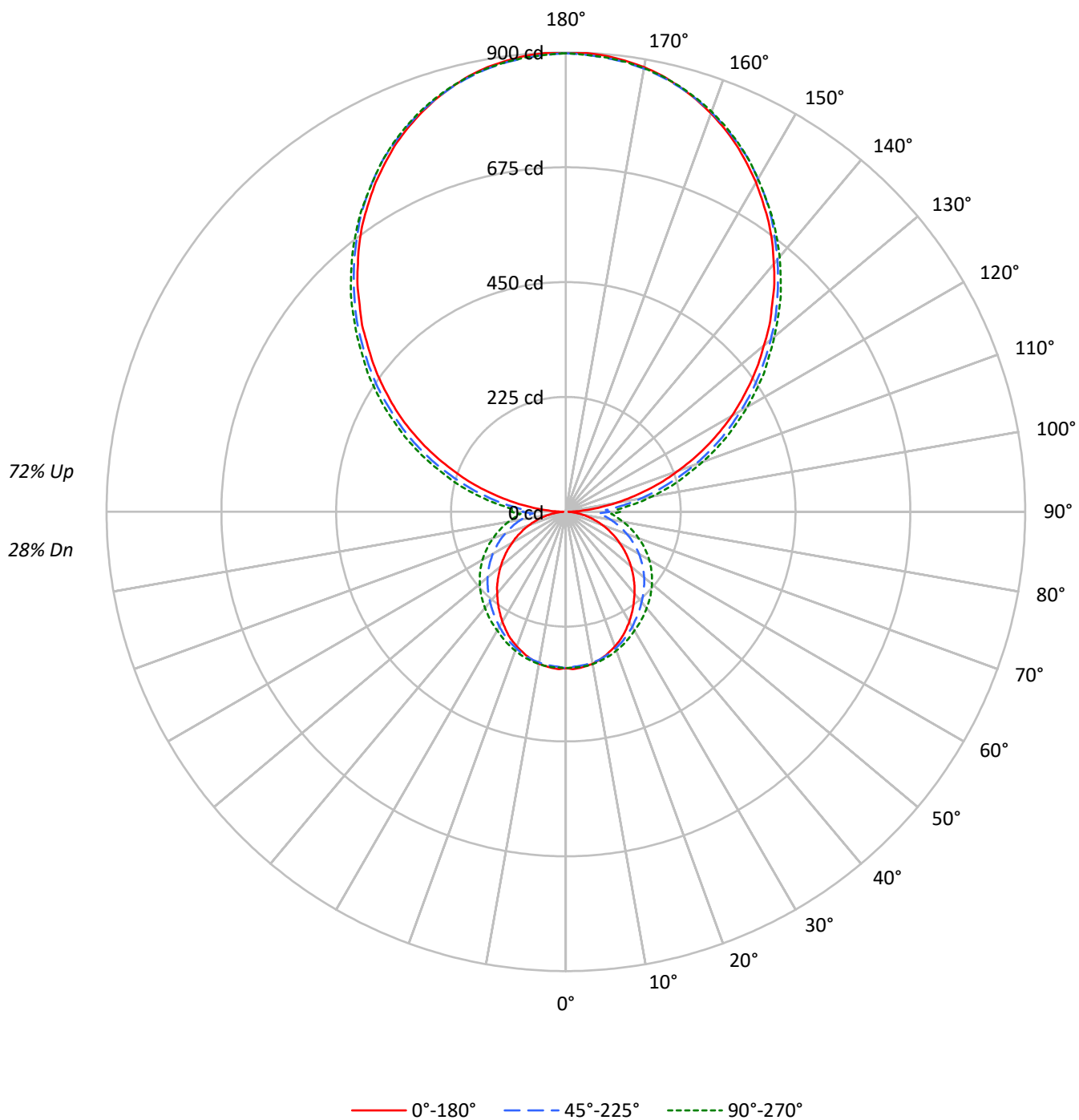
Lumens per Lamp: N/A
Luminaire Lumens: 3683.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28		
1	92	87	83	80	82	78	75	72	61	59	56	45	44	42	31	30	29	22		
2	83	76	70	64	74	68	63	58	53	49	46	39	37	35	26	25	24	18		
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	20	15		
4	69	58	51	45	61	52	46	40	41	36	32	30	27	24	20	18	17	12		
5	63	52	44	38	56	46	40	34	36	31	28	27	24	21	18	16	14	11		
6	58	46	38	32	52	42	35	30	33	28	24	24	21	18	17	14	12	9		
7	54	42	34	28	48	37	31	26	29	24	21	22	18	16	15	13	11	8		
8	50	37	30	25	44	34	27	22	27	22	18	20	17	14	14	11	10	7		
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	13	10	9	6		
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8	6		

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	0.8
10°-20°	83.3	2.3
20°-30°	126.2	3.4
30°-40°	153.7	4.2
40°-50°	165.4	4.5
50°-60°	160.6	4.4
60°-70°	140.2	3.8
70°-80°	108.0	2.9
80°-90°	74.9	2.0
90°-100°	105.4	2.9
100°-110°	213.1	5.8
110°-120°	326.3	8.9
120°-130°	410.9	11.2
130°-140°	451.8	12.3
140°-150°	438.5	11.9
150°-160°	367.1	10.0
160°-170°	243.4	6.6
170°-180°	85.1	2.3
0°-30°	238.5	6.5
0°-40°	392.2	10.6
0°-60°	718.2	19.5
0°-90°	1041.2	28.3
90°-120°	644.9	17.5
90°-150°	1946.2	52.8
90°-180°	2642.0	71.7
0°-180°	3683.0	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	40	85	101	108	6
95°	43	71	100	116	120	47
105°	165	180	205	222	227	175
115°	305	314	333	346	348	302
125°	442	449	461	471	474	395
135°	571	580	586	594	595	442
145°	693	698	703	706	705	433
155°	792	794	797	800	798	365
165°	862	861	861	866	863	243
175°	897	894	893	898	894	85
180°	898	898	898	898	898	

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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°	5.2	40.1	85.1	101.4	107.5
92.5°	20.7	50.2	78.1	96.2	101.6
95°	43.0	71.4	99.6	116.4	120.3
97.5°	69.1	95.0	123.8	140.2	145.5
100°	99.4	121.8	149.0	165.4	169.6
102.5°	130.8	150.0	177.0	193.7	197.9
105°	165.2	180.4	205.0	222.0	226.9
107.5°	200.1	213.8	236.0	251.8	253.0
110°	233.0	246.5	268.2	282.4	285.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.4	281.0	300.7	312.6	316.0
115°	305.0	314.5	332.9	345.5	348.0
117.5°	340.1	349.8	364.6	375.7	377.9
120°	375.8	383.6	395.4	407.8	410.4
122.5°	408.4	416.5	429.1	438.8	441.3
125°	442.1	448.9	460.8	470.6	473.8
127.5°	475.4	483.3	492.2	500.3	502.0
130°	506.5	515.9	523.8	532.8	533.4
132.5°	541.4	548.5	555.9	562.3	563.7
135°	571.2	579.5	585.6	594.1	595.4
137.5°	604.6	611.4	615.2	622.8	622.9
140°	634.1	640.6	645.2	652.3	652.0
142.5°	664.5	670.9	673.1	679.2	678.4
145°	692.9	698.2	702.7	706.2	705.3
147.5°	718.6	725.5	728.5	730.4	728.8
150°	745.2	749.7	752.7	755.0	752.7
152.5°	768.7	773.2	777.0	780.0	777.0
155°	792.2	794.4	796.7	800.5	798.2
157.5°	812.6	814.1	815.7	821.0	817.2
160°	830.8	832.3	833.1	837.6	834.6
162.5°	847.5	847.5	848.3	853.6	849.8
165°	861.9	861.1	861.1	866.5	862.7
167.5°	874.8	872.5	872.5	877.8	874.0
170°	884.6	882.4	881.6	886.9	882.4
172.5°	891.5	889.2	888.4	893.7	889.2
175°	896.8	894.5	893.0	898.3	893.7
177.5°	899.8	897.5	896.0	900.6	896.0
180°	898.3	898.3	898.3	898.3	898.3

(END OF REPORT)