

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: P1029402

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029402
REPORT IS A COMBINATION OF REPORTS P985763 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_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

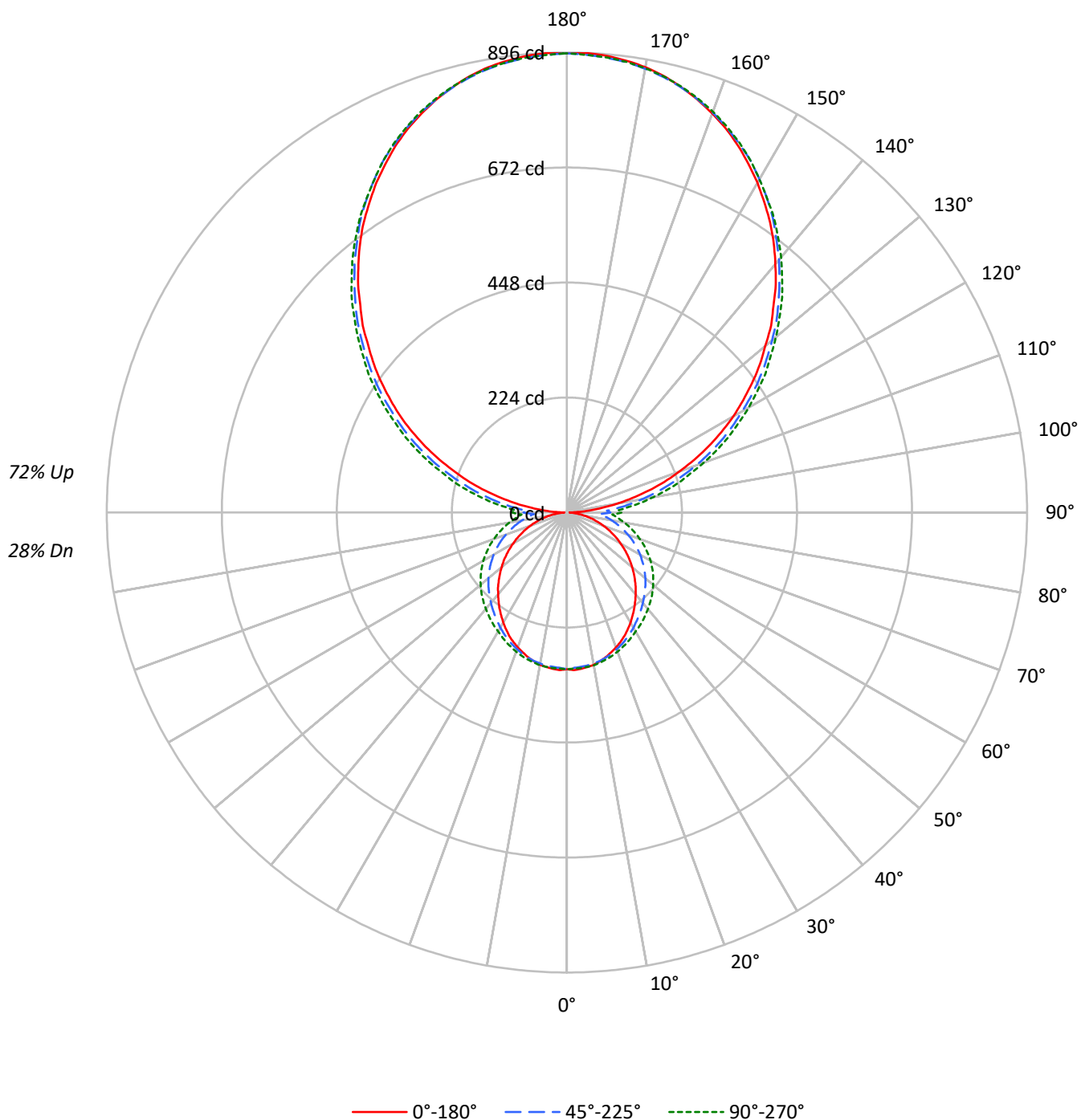
Lumens per Lamp: N/A
Luminaire Lumens: 3667.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	4830	4830	4830
5°	4850	4623	4597
10°	4818	4463	4398
15°	4750	4297	4193
20°	4664	4123	4000
25°	4580	3956	3824
30°	4461	3788	3650
35°	4341	3624	3522
40°	4214	3483	3395
45°	4095	3356	3284
50°	3965	3237	3175
55°	3829	3112	3064
60°	3663	2981	2947
65°	3487	2832	2812
70°	3291	2670	2668
75°	3043	2509	2530
80°	2651	2343	2388
85°	2246	2183	2267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.8
10°-20°	82.9	2.3
20°-30°	125.7	3.4
30°-40°	153.0	4.2
40°-50°	164.7	4.5
50°-60°	159.9	4.4
60°-70°	139.6	3.8
70°-80°	107.5	2.9
80°-90°	74.5	2.0
90°-100°	105.0	2.9
100°-110°	212.2	5.8
110°-120°	324.9	8.9
120°-130°	409.1	11.2
130°-140°	449.9	12.3
140°-150°	436.6	11.9
150°-160°	365.5	10.0
160°-170°	242.4	6.6
170°-180°	84.7	2.3
0°-30°	237.5	6.5
0°-40°	390.6	10.7
0°-60°	715.1	19.5
0°-90°	1036.8	28.3
90°-120°	642.0	17.5
90°-150°	1937.7	52.8
90°-180°	2630.0	71.7
0°-180°	3667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	306	305	302	305	304	29
15°	292	293	293	297	296	82
25°	265	268	272	278	279	122
35°	229	236	244	254	257	143
45°	188	199	215	229	233	145
55°	144	160	183	198	204	129
65°	98	120	146	164	170	98
75°	54	79	107	126	132	58
85°	16	43	72	90	96	17
90°	5	40	85	101	107	6
95°	43	71	99	116	120	47
105°	164	180	204	221	226	174
115°	304	313	331	344	347	300
125°	440	447	459	468	472	393
135°	569	577	583	592	593	440
145°	690	695	700	703	702	431
155°	789	791	793	797	795	363
165°	858	857	857	863	859	242
175°	893	891	889	894	890	85
180°	894	894	894	894	894	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.1	305.1	305.1	305.1	305.1
2.5°	307.3	305.9	302.8	305.1	304.2
5°	305.9	304.6	302.0	304.6	304.2
7.5°	303.7	302.8	300.6	303.7	303.3
10°	301.1	300.2	298.9	302.4	302.0
12.5°	296.7	297.1	296.2	299.8	299.3
15°	291.8	292.7	292.7	296.7	296.2
17.5°	285.6	287.4	288.7	292.7	292.7
20°	279.4	281.6	283.4	288.3	288.3
22.5°	272.8	275.4	278.1	283.0	283.8
25°	265.3	268.4	272.3	277.6	279.0
27.5°	256.4	261.3	265.7	272.3	273.2
30°	247.6	253.3	259.1	266.2	267.5
32.5°	237.9	244.5	251.6	260.0	262.6
35°	228.6	236.1	244.5	254.2	257.3
37.5°	218.4	226.8	237.4	248.0	251.1
40°	208.2	218.0	229.9	241.4	245.4
42.5°	198.5	208.2	222.4	235.2	239.2
45°	187.5	199.4	214.9	228.6	233.0
47.5°	176.8	189.7	207.4	221.5	226.4
50°	165.8	179.5	199.4	214.4	219.3
52.5°	155.2	169.8	191.0	206.5	211.8
55°	143.7	159.6	182.6	198.5	204.3
57.5°	132.6	150.3	173.3	190.6	196.3
60°	120.7	139.7	164.9	181.7	187.9
62.5°	110.1	130.0	155.2	173.3	179.1
65°	98.1	119.8	145.9	164.0	169.8
67.5°	87.5	110.1	136.6	154.7	160.9
70°	76.0	99.0	126.4	145.5	150.8
72.5°	65.4	89.3	117.2	135.7	142.4
75°	54.4	79.1	107.4	126.4	132.2
77.5°	43.8	69.4	98.1	117.2	123.4
80°	33.2	60.1	88.9	107.4	113.6
82.5°	24.3	50.8	80.0	98.6	104.3
85°	15.9	43.3	71.6	90.2	96.4
87.5°	9.7	36.3	64.5	82.7	88.4
90°	5.2	39.9	84.8	100.9	107.0
92.5°	20.6	50.0	77.8	95.8	101.1
95°	42.7	71.1	99.1	115.9	119.7
97.5°	68.8	94.6	123.2	139.6	144.9
100°	99.0	121.4	148.4	164.8	168.8
102.5°	130.2	149.3	176.2	192.9	197.0
105°	164.5	179.5	204.0	221.1	226.0
107.5°	199.2	212.8	234.9	250.8	251.8
110°	232.0	245.3	267.0	281.1	283.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	268.2	279.7	299.4	311.2	314.6
115°	303.7	313.0	331.4	344.0	346.6
117.5°	338.7	348.3	363.0	374.1	376.2
120°	374.1	382.0	393.6	406.0	408.6
122.5°	406.6	414.6	427.2	436.9	439.3
125°	440.2	446.9	458.8	468.5	471.7
127.5°	473.4	481.2	490.1	498.1	499.9
130°	504.3	513.6	521.4	530.5	531.1
132.5°	539.0	546.1	553.5	559.9	561.2
135°	568.7	577.0	583.0	591.5	592.8
137.5°	601.9	608.7	612.5	620.2	620.2
140°	631.4	637.7	642.4	649.5	649.1
142.5°	661.5	667.9	670.2	676.3	675.4
145°	689.8	695.1	699.6	703.1	702.3
147.5°	715.5	722.3	725.3	727.2	725.6
150°	741.9	746.4	749.4	751.7	749.4
152.5°	765.3	769.8	773.6	776.6	773.6
155°	788.7	791.0	793.2	797.0	794.7
157.5°	809.1	810.6	812.1	817.4	813.6
160°	827.2	828.7	829.5	834.0	831.0
162.5°	843.8	843.8	844.5	849.8	846.1
165°	858.1	857.4	857.4	862.7	858.9
167.5°	871.0	868.7	868.7	874.0	870.2
170°	880.8	878.5	877.8	883.0	878.5
172.5°	887.6	885.3	884.5	889.8	885.3
175°	892.8	890.6	889.1	894.4	889.8
177.5°	895.9	893.6	892.1	896.6	892.1
180°	894.4	894.4	894.4	894.4	894.4

(END OF REPORT)