

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: P1029413

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-F1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029413
REPORT IS A COMBINATION OF REPORTS P985779 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-F1_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

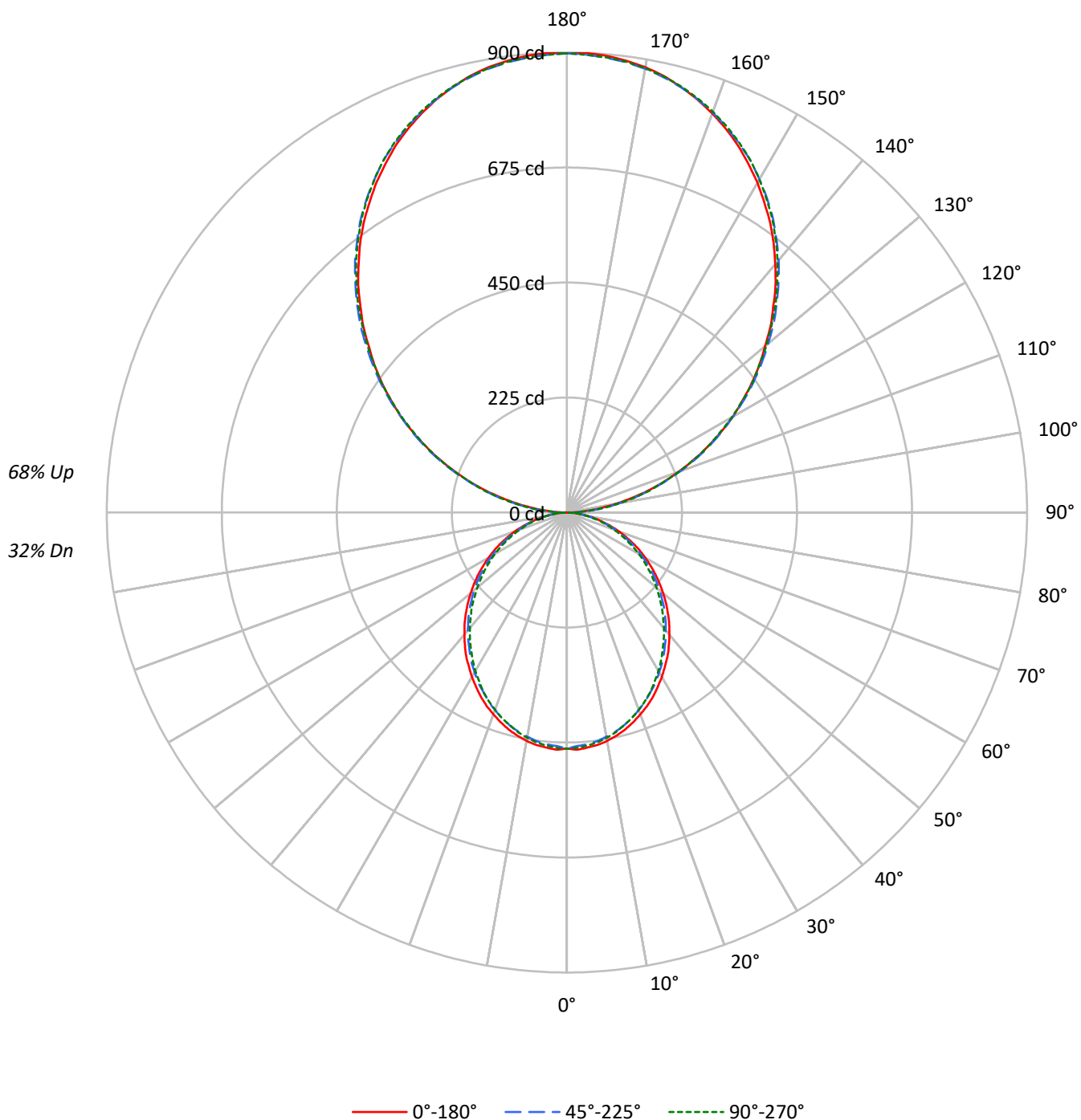
Lumens per Lamp: N/A
Luminaire Lumens: 3689.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40
1	94	90	86	82	84	81	77	75	64	62	60	49	48	46	35	34	33
2	85	78	72	67	76	70	65	61	56	53	50	43	41	39	31	29	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	21
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	12
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7310	7310	7310
5°	7322	6969	6918
10°	7262	6651	6518
15°	7156	6331	6099
20°	7013	5983	5700
25°	6870	5619	5302
30°	6688	5277	4883
35°	6520	4917	4473
40°	6309	4562	4085
45°	6100	4210	3706
50°	5873	3850	3311
55°	5633	3467	2937
60°	5362	3050	2548
65°	5066	2628	2140
70°	4694	2167	1728
75°	4173	1670	1334
80°	3545	1136	860
85°	2571	528	364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.2
10°-20°	122.3	3.3
20°-30°	179.7	4.9
30°-40°	208.7	5.7
40°-50°	208.5	5.7
50°-60°	181.8	4.9
60°-70°	134.4	3.6
70°-80°	76.0	2.1
80°-90°	22.6	0.6
90°-100°	55.6	1.5
100°-110°	176.7	4.8
110°-120°	302.3	8.2
120°-130°	397.5	10.8
130°-140°	446.2	12.1
140°-150°	437.6	11.9
150°-160°	367.1	10.0
160°-170°	243.4	6.6
170°-180°	85.1	2.3
0°-30°	345.5	9.4
0°-40°	554.2	15.0
0°-60°	944.5	25.6
0°-90°	1177.6	31.9
90°-120°	534.5	14.5
90°-150°	1815.9	49.2
90°-180°	2511.0	68.1
0°-180°	3689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	462	460	455	459	458	44
15°	440	437	431	433	431	124
25°	398	394	387	388	387	183
35°	343	339	332	329	327	214
45°	279	276	270	265	263	216
55°	211	209	203	198	196	189
65°	142	140	135	131	129	141
75°	75	74	72	69	70	80
85°	18	18	17	16	16	20
90°	1	10	26	25	26	4
95°	39	47	48	48	47	44
105°	163	165	167	168	168	172
115°	303	308	306	306	303	300
125°	441	448	446	444	443	394
135°	571	579	581	580	578	441
145°	693	698	703	704	700	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°	461.8	461.8	461.8	461.8	461.8
2.5°	464.5	462.3	457.4	461.8	461.0
5°	461.8	460.1	455.2	458.7	457.8
7.5°	458.7	456.1	451.2	454.7	453.8
10°	453.8	450.7	445.4	449.0	447.6
12.5°	447.2	444.5	439.2	441.4	440.5
15°	439.6	437.0	431.2	433.0	430.8
17.5°	430.3	427.6	421.9	424.1	421.9
20°	420.1	417.4	411.2	412.5	410.8
22.5°	409.9	405.9	400.1	400.1	399.2
25°	397.9	394.3	386.8	387.7	386.8
27.5°	384.6	381.5	375.7	374.4	372.1
30°	371.2	367.7	361.0	359.7	357.9
32.5°	357.0	354.4	347.3	344.6	342.8
35°	343.3	338.8	331.7	329.1	326.8
37.5°	327.7	323.7	316.6	313.5	311.3
40°	311.7	308.2	301.1	297.1	295.3
42.5°	296.2	292.6	285.5	281.1	278.4
45°	279.3	276.2	269.6	264.7	262.9
47.5°	262.9	259.8	252.7	247.8	245.1
50°	245.6	243.4	237.1	230.9	228.7
52.5°	228.7	225.6	219.8	214.9	211.8
55°	211.4	208.7	203.4	198.1	195.8
57.5°	194.1	191.8	186.1	180.7	179.0
60°	176.7	175.0	168.7	163.9	162.5
62.5°	159.9	156.8	152.3	147.9	146.1
65°	142.5	139.9	135.4	131.4	129.2
67.5°	124.8	122.6	118.6	115.5	113.7
70°	108.4	106.6	102.6	99.5	97.7
72.5°	91.5	89.7	87.5	84.4	83.0
75°	74.6	73.7	71.5	68.8	69.7
77.5°	59.5	57.7	56.8	55.5	54.2
80°	44.4	44.0	43.1	41.7	40.9
82.5°	30.2	30.2	29.8	28.0	28.0
85°	18.2	17.8	17.3	16.0	15.5
87.5°	8.0	7.1	6.2	4.9	4.4
90°	0.8	9.9	26.5	25.0	25.8
92.5°	16.7	22.7	23.5	24.3	24.3
95°	39.4	47.0	48.5	48.5	47.0
97.5°	66.0	72.8	75.8	75.8	75.8
100°	96.3	102.3	104.6	104.6	103.9
102.5°	128.1	132.7	135.7	136.4	135.7
105°	163.0	165.3	166.8	168.3	168.3
107.5°	197.9	200.9	200.9	201.6	197.9
110°	231.2	235.8	235.8	235.8	233.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.6	272.1	271.4	269.1	267.6
115°	303.2	307.8	306.3	305.5	303.2
117.5°	338.8	344.9	341.1	338.8	336.6
120°	374.5	380.5	374.5	374.5	372.2
122.5°	407.1	414.7	410.9	408.6	407.1
125°	441.2	448.0	445.7	443.5	442.7
127.5°	474.5	482.9	479.8	476.8	474.5
130°	505.6	515.5	514.0	512.4	509.4
132.5°	540.5	548.1	548.8	545.0	542.8
135°	570.8	579.1	580.7	579.9	577.6
137.5°	604.2	611.0	612.5	611.7	608.7
140°	633.7	640.6	644.3	644.3	641.3
142.5°	664.1	670.9	673.1	673.9	670.9
145°	692.9	698.2	702.7	703.5	700.4
147.5°	718.6	725.5	728.5	730.0	727.0
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)