

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: P1029405

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029405
REPORT IS A COMBINATION OF REPORTS P985766 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_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

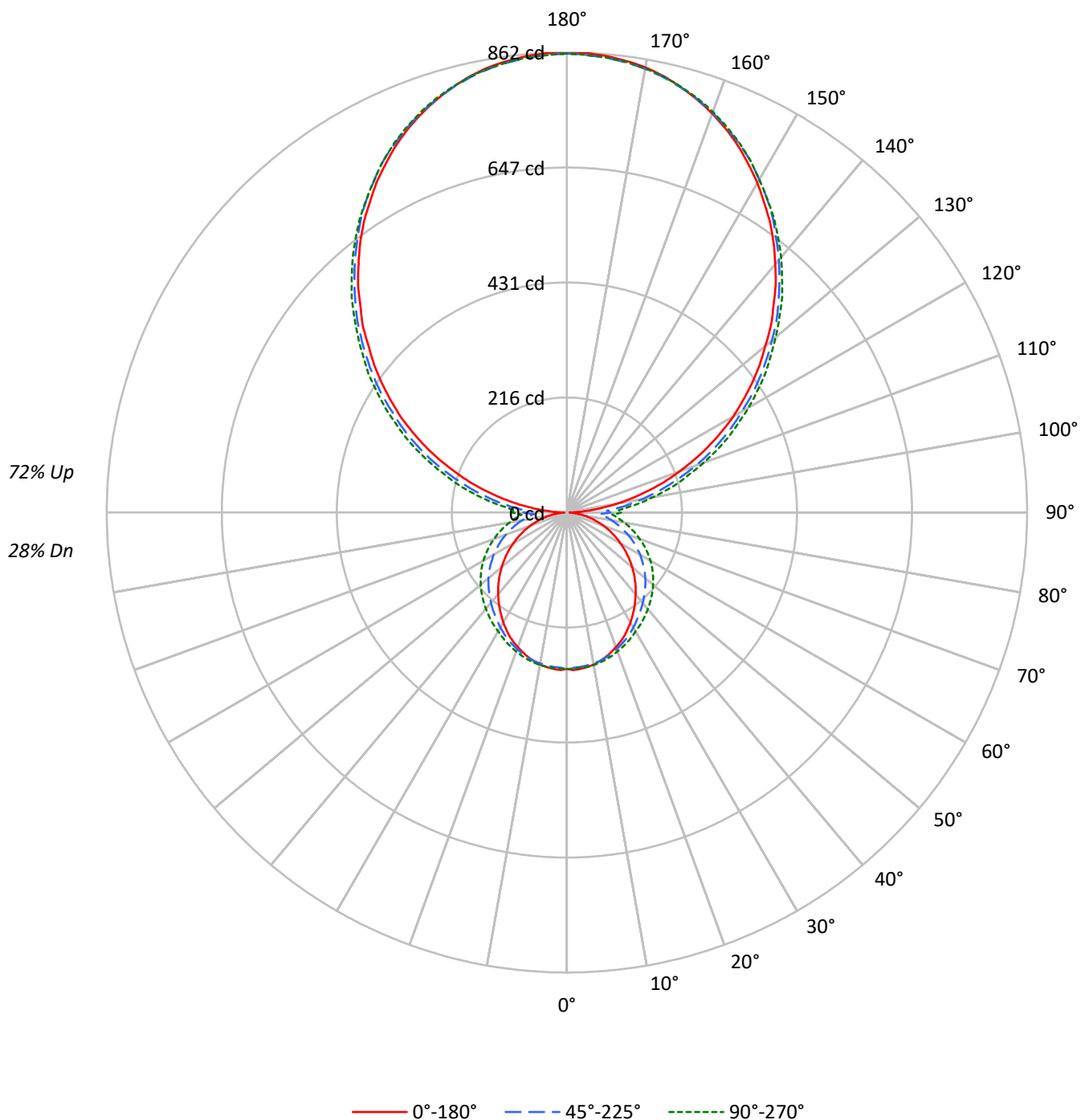
Lumens per Lamp: N/A
Luminaire Lumens: 3526.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	4643	4643	4643
5°	4663	4444	4419
10°	4631	4290	4228
15°	4566	4131	4032
20°	4484	3963	3845
25°	4402	3803	3676
30°	4288	3641	3508
35°	4172	3483	3386
40°	4052	3348	3264
45°	3936	3226	3157
50°	3812	3112	3052
55°	3680	2991	2946
60°	3520	2866	2832
65°	3356	2723	2703
70°	3166	2568	2563
75°	2926	2413	2433
80°	2547	2250	2296
85°	2161	2101	2180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	0.8
10°-20°	79.7	2.3
20°-30°	120.8	3.4
30°-40°	147.1	4.2
40°-50°	158.3	4.5
50°-60°	153.7	4.4
60°-70°	134.3	3.8
70°-80°	103.3	2.9
80°-90°	71.7	2.0
90°-100°	101.0	2.9
100°-110°	204.0	5.8
110°-120°	312.4	8.9
120°-130°	393.4	11.2
130°-140°	432.6	12.3
140°-150°	419.9	11.9
150°-160°	351.4	10.0
160°-170°	233.1	6.6
170°-180°	81.5	2.3
0°-30°	228.3	6.5
0°-40°	375.5	10.6
0°-60°	687.5	19.5
0°-90°	996.7	28.3
90°-120°	617.4	17.5
90°-150°	1863.3	52.8
90°-180°	2529.0	71.7
0°-180°	3526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	294	293	290	293	292	28
15°	280	281	281	285	285	79
25°	255	258	262	267	268	117
35°	220	227	235	244	247	137
45°	180	192	207	220	224	139
55°	138	153	176	191	196	124
65°	94	115	140	158	163	94
75°	52	76	103	122	127	55
85°	15	42	69	87	93	16
90°	5	38	82	97	103	5
95°	41	68	95	112	115	45
105°	158	173	196	212	217	167
115°	292	301	319	331	333	289
125°	423	430	441	450	454	378
135°	547	555	561	569	570	423
145°	663	668	673	676	675	415
155°	758	761	763	766	764	349
165°	825	824	824	830	826	233
175°	859	856	855	860	856	82
180°	860	860	860	860	860	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.3	293.3	293.3	293.3	293.3
2.5°	295.4	294.1	291.1	293.3	292.4
5°	294.1	292.8	290.3	292.8	292.4
7.5°	292.0	291.1	289.0	292.0	291.6
10°	289.4	288.6	287.3	290.7	290.3
12.5°	285.2	285.6	284.8	288.2	287.7
15°	280.5	281.4	281.4	285.2	284.8
17.5°	274.6	276.3	277.5	281.4	281.4
20°	268.6	270.7	272.4	277.1	277.1
22.5°	262.2	264.8	267.3	272.0	272.9
25°	255.0	258.0	261.8	266.9	268.2
27.5°	246.5	251.2	255.4	261.8	262.7
30°	238.0	243.5	249.1	255.9	257.1
32.5°	228.7	235.0	241.8	249.9	252.5
35°	219.7	227.0	235.0	244.4	247.4
37.5°	210.0	218.0	228.2	238.4	241.4
40°	200.2	209.5	221.0	232.1	235.9
42.5°	190.8	200.2	213.8	226.1	229.9
45°	180.2	191.7	206.6	219.7	224.0
47.5°	170.0	182.3	199.3	212.9	217.6
50°	159.4	172.6	191.7	206.1	210.8
52.5°	149.2	163.2	183.6	198.5	203.6
55°	138.1	153.4	175.5	190.8	196.4
57.5°	127.5	144.5	166.6	183.2	188.7
60°	116.0	134.3	158.5	174.7	180.6
62.5°	105.8	125.0	149.2	166.6	172.1
65°	94.4	115.2	140.3	157.7	163.2
67.5°	84.2	105.8	131.3	148.8	154.7
70°	73.1	95.2	121.6	139.8	144.9
72.5°	62.9	85.9	112.6	130.5	136.9
75°	52.3	76.1	103.3	121.6	127.1
77.5°	42.1	66.7	94.4	112.6	118.6
80°	31.9	57.8	85.4	103.3	109.2
82.5°	23.4	48.9	76.9	94.8	100.3
85°	15.3	41.7	68.9	86.7	92.7
87.5°	9.4	34.9	62.1	79.5	85.0
90°	5.0	38.3	81.5	97.1	102.9
92.5°	19.8	48.2	74.8	92.1	97.2
95°	41.1	68.4	95.4	111.5	115.1
97.5°	66.1	91.0	118.5	134.2	139.3
100°	95.2	116.7	142.7	158.4	162.3
102.5°	125.3	143.6	169.4	185.4	189.4
105°	158.1	172.7	196.3	212.5	217.2
107.5°	191.5	204.6	225.9	241.1	242.1
110°	223.1	235.9	256.7	270.3	272.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	257.9	269.1	287.9	299.4	302.5
115°	292.0	301.1	318.7	330.8	333.2
117.5°	325.7	334.9	349.1	359.7	361.7
120°	359.8	367.3	378.5	390.4	393.0
122.5°	391.0	398.7	410.8	420.1	422.4
125°	423.3	429.8	441.3	450.5	453.7
127.5°	455.2	462.7	471.3	479.0	480.7
130°	485.0	493.9	501.5	510.2	510.7
132.5°	518.4	525.1	532.3	538.4	539.7
135°	546.9	554.9	560.7	568.8	570.0
137.5°	578.9	585.4	589.0	596.3	596.4
140°	607.2	613.3	617.8	624.6	624.2
142.5°	636.2	642.3	644.5	650.3	649.5
145°	663.4	668.4	672.8	676.1	675.3
147.5°	688.0	694.6	697.5	699.3	697.7
150°	713.4	717.8	720.7	722.9	720.7
152.5°	735.9	740.3	743.9	746.8	743.9
155°	758.4	760.6	762.8	766.4	764.3
157.5°	778.0	779.5	780.9	786.0	782.4
160°	795.5	796.9	797.6	802.0	799.1
162.5°	811.4	811.4	812.2	817.2	813.6
165°	825.2	824.5	824.5	829.6	825.9
167.5°	837.6	835.4	835.4	840.5	836.8
170°	847.0	844.8	844.1	849.2	844.8
172.5°	853.5	851.3	850.6	855.7	851.3
175°	858.6	856.4	855.0	860.1	855.7
177.5°	861.5	859.3	857.9	862.2	857.9
180°	860.1	860.1	860.1	860.1	860.1

(END OF REPORT)