

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: P1029409

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029409
REPORT IS A COMBINATION OF REPORTS P985775 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-D_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

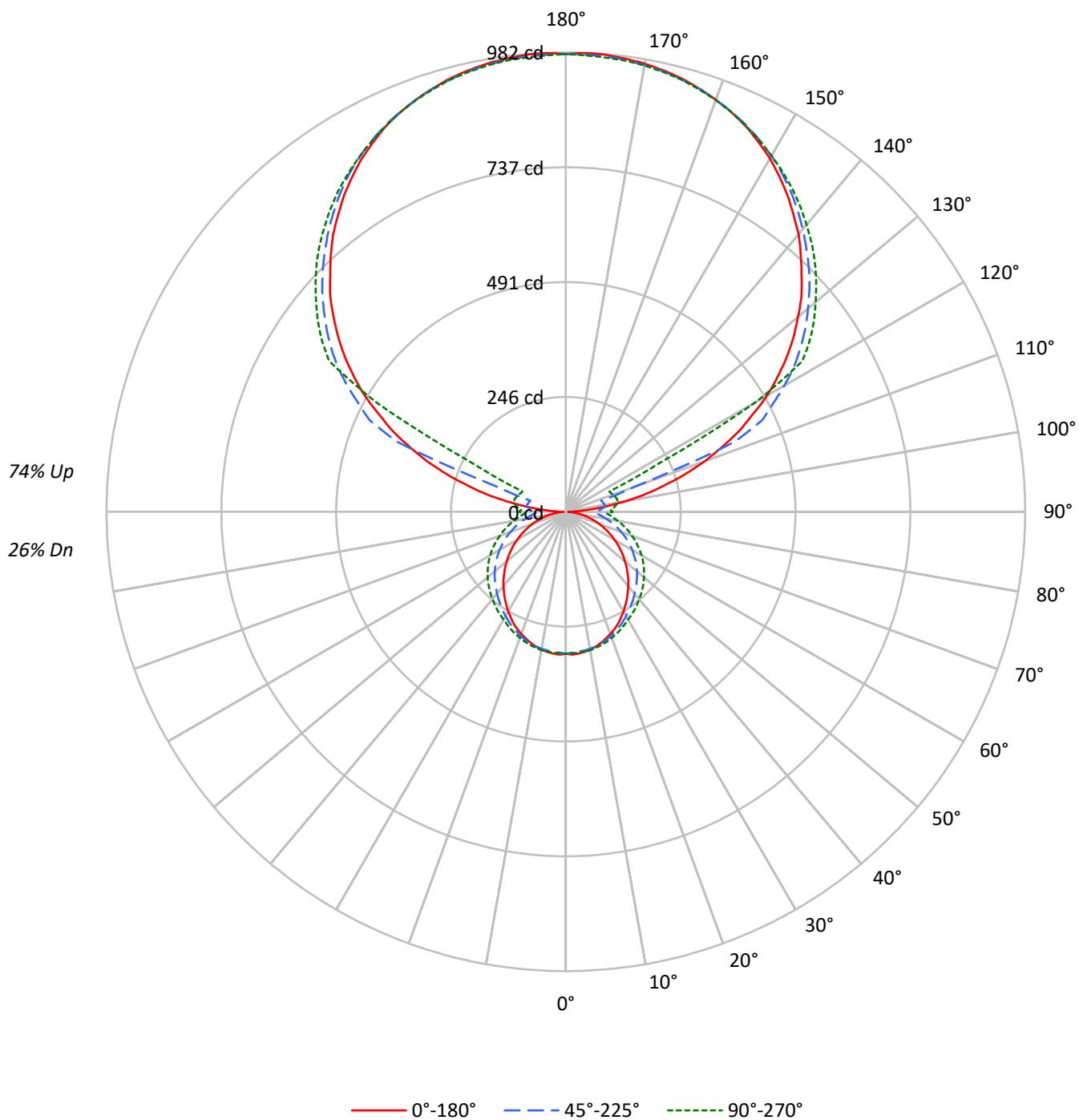
Lumens per Lamp: N/A
Luminaire Lumens: 4028.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34			26
1	92	87	83	79	81	78	74	71	60	58	55	44	42	41	29	28	27			20
2	83	76	69	64	74	67	62	58	52	48	45	38	35	33	25	23	22			16
3	75	66	59	53	67	59	53	48	45	41	38	33	30	28	22	20	18			13
4	69	58	50	44	61	52	45	40	40	35	32	29	26	24	19	17	16			11
5	63	52	44	38	56	46	39	34	36	31	27	26	23	20	17	15	13			10
6	58	46	38	32	51	41	34	29	32	27	23	23	20	17	15	13	12			8
7	53	41	34	28	47	37	30	25	29	24	20	21	18	15	14	12	10			7
8	49	37	30	25	44	33	27	22	26	21	18	19	16	13	13	11	9			6
9	46	34	27	22	41	30	24	20	24	19	16	18	14	12	12	10	8			6
10	43	31	24	19	38	28	22	17	22	17	14	16	13	11	11	9	7			5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4804	4804	4804
5°	4826	4599	4573
10°	4793	4439	4375
15°	4726	4275	4172
20°	4641	4101	3979
25°	4556	3936	3803
30°	4438	3767	3631
35°	4319	3605	3504
40°	4194	3465	3377
45°	4073	3338	3267
50°	3943	3221	3159
55°	3808	3097	3048
60°	3644	2967	2931
65°	3470	2816	2797
70°	3278	2657	2654
75°	3026	2497	2517
80°	2635	2330	2376
85°	2232	2174	2255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	0.7
10°-20°	82.5	2.0
20°-30°	125.0	3.1
30°-40°	152.2	3.8
40°-50°	163.8	4.1
50°-60°	159.1	3.9
60°-70°	138.9	3.4
70°-80°	106.9	2.7
80°-90°	73.3	1.8
90°-100°	81.7	2.0
100°-110°	156.4	3.9
110°-120°	342.8	8.5
120°-130°	542.3	13.5
130°-140°	567.5	14.1
140°-150°	523.2	13.0
150°-160°	419.9	10.4
160°-170°	270.6	6.7
170°-180°	93.1	2.3
0°-30°	236.3	5.9
0°-40°	388.5	9.6
0°-60°	711.5	17.7
0°-90°	1030.6	25.6
90°-120°	580.8	14.4
90°-150°	2213.8	55.0
90°-180°	2997.0	74.4
0°-180°	4028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	304	303	300	303	303	29
15°	290	291	291	295	295	82
25°	264	267	271	276	278	121
35°	227	235	243	253	256	142
45°	186	198	214	227	232	144
55°	143	159	182	198	203	128
65°	98	119	145	163	169	97
75°	54	79	107	126	132	57
85°	16	43	71	90	96	17
90°	5	38	72	93	100	6
95°	50	47	78	98	103	57
105°	217	252	81	104	112	232
115°	409	426	463	149	102	402
125°	576	586	613	630	636	514
135°	713	724	735	751	753	551
145°	826	826	838	845	844	517
155°	910	903	912	916	910	419
165°	959	954	956	961	956	271
175°	980	976	977	982	975	93
180°	978	978	978	978	978	

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CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-D_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	303.5	303.5	303.5	303.5	303.5
2.5°	305.7	304.4	301.3	303.5	302.6
5°	304.4	303.0	300.4	303.0	302.6
7.5°	302.2	301.3	299.1	302.2	301.7
10°	299.5	298.6	297.3	300.8	300.4
12.5°	295.1	295.6	294.7	298.2	297.8
15°	290.3	291.2	291.2	295.1	294.7
17.5°	284.1	285.9	287.2	291.2	291.2
20°	278.0	280.2	281.9	286.8	286.8
22.5°	271.4	274.0	276.7	281.5	282.4
25°	263.9	267.0	270.9	276.2	277.5
27.5°	255.1	259.9	264.3	270.9	271.8
30°	246.3	252.0	257.7	264.8	266.1
32.5°	236.6	243.2	250.3	258.6	261.3
35°	227.4	234.9	243.2	252.9	256.0
37.5°	217.3	225.6	236.2	246.7	249.8
40°	207.2	216.8	228.7	240.2	244.1
42.5°	197.5	207.2	221.2	234.0	238.0
45°	186.5	198.4	213.8	227.4	231.8
47.5°	175.9	188.7	206.3	220.4	225.2
50°	164.9	178.6	198.4	213.3	218.2
52.5°	154.4	168.9	190.0	205.4	210.7
55°	142.9	158.8	181.7	197.5	203.2
57.5°	132.0	149.5	172.4	189.6	195.3
60°	120.1	139.0	164.1	180.8	186.9
62.5°	109.5	129.3	154.4	172.4	178.1
65°	97.6	119.2	145.1	163.2	168.9
67.5°	87.1	109.5	135.9	153.9	160.1
70°	75.7	98.5	125.8	144.7	150.0
72.5°	65.1	88.8	116.6	135.0	141.6
75°	54.1	78.7	106.9	125.8	131.5
77.5°	43.5	69.1	97.6	116.6	122.7
80°	33.0	59.8	88.4	106.9	113.0
82.5°	24.2	50.6	79.6	98.1	103.8
85°	15.8	43.1	71.3	89.7	95.9
87.5°	9.7	36.1	64.2	82.2	88.0
90°	5.1	38.4	72.3	93.4	100.0
92.5°	21.7	42.2	71.1	89.7	95.6
95°	49.5	46.9	78.2	98.4	103.0
97.5°	85.9	46.8	83.6	102.0	108.0
100°	128.4	47.7	84.4	106.3	112.5
102.5°	174.6	187.8	82.7	106.3	113.3
105°	217.4	251.5	81.0	104.2	111.9
107.5°	267.7	296.0	79.3	102.1	109.7
110°	315.4	339.1	156.0	99.3	106.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	360.7	380.5	388.6	97.6	104.5
115°	408.9	425.7	463.2	148.6	102.5
117.5°	450.1	467.8	498.3	410.3	229.2
120°	496.9	509.3	539.6	560.4	469.6
122.5°	536.5	548.3	578.7	594.8	599.6
125°	576.5	585.7	613.2	630.0	636.1
127.5°	613.3	622.7	645.2	663.3	668.0
130°	648.0	658.8	675.9	694.2	697.1
132.5°	683.4	692.1	706.5	723.0	725.8
135°	712.6	723.9	734.7	751.1	753.2
137.5°	743.7	752.2	761.5	777.0	778.0
140°	774.2	779.5	788.1	801.5	800.7
142.5°	799.7	804.2	813.4	824.4	823.1
145°	826.2	825.5	837.5	845.1	843.7
147.5°	849.5	847.4	859.4	863.4	862.0
150°	872.2	867.2	878.6	882.8	879.3
152.5°	891.3	885.6	896.3	900.5	895.6
155°	909.7	903.3	911.8	916.1	910.4
157.5°	924.6	918.9	925.3	930.2	924.6
160°	937.3	933.1	937.3	941.6	936.6
162.5°	948.7	944.4	947.9	952.9	946.5
165°	958.6	954.3	956.4	961.4	956.4
167.5°	966.3	962.1	964.2	969.2	962.8
170°	972.7	968.5	969.9	974.8	968.5
172.5°	977.0	972.7	974.1	979.1	972.7
175°	980.5	975.6	977.0	981.9	974.8
177.5°	981.9	977.0	977.7	982.6	976.3
180°	978.4	978.4	978.4	978.4	978.4

(END OF REPORT)