

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: P1029407

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029407
REPORT IS A COMBINATION OF REPORTS P985773 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_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

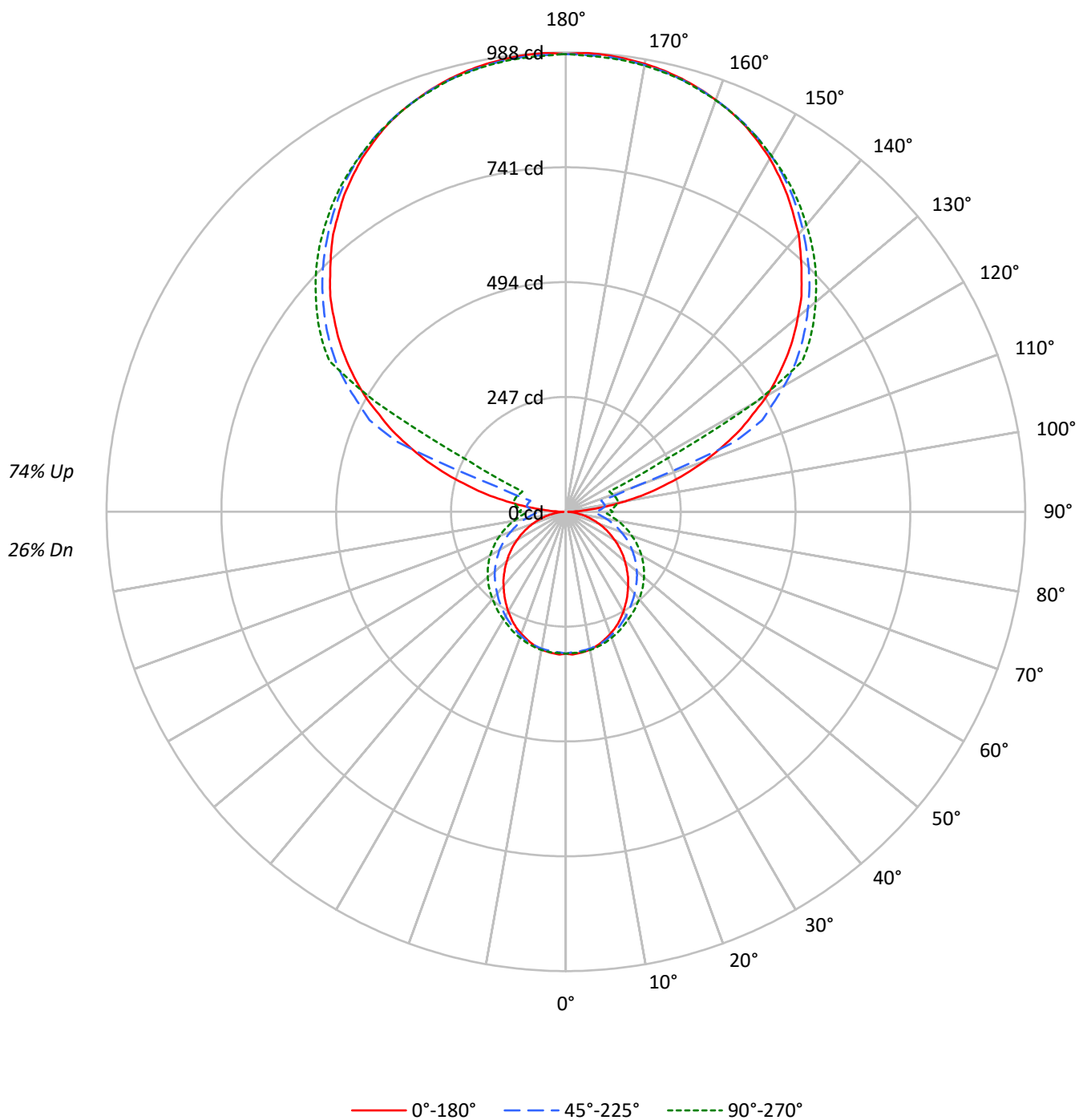
Lumens per Lamp: N/A
Luminaire Lumens: 4051.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	28	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°	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	0.7
10°-20°	82.9	2.0
20°-30°	125.7	3.1
30°-40°	153.0	3.8
40°-50°	164.7	4.1
50°-60°	159.9	3.9
60°-70°	139.6	3.4
70°-80°	107.5	2.7
80°-90°	73.7	1.8
90°-100°	82.1	2.0
100°-110°	157.2	3.9
110°-120°	344.8	8.5
120°-130°	545.5	13.5
130°-140°	570.9	14.1
140°-150°	526.3	13.0
150°-160°	422.4	10.4
160°-170°	272.2	6.7
170°-180°	93.7	2.3
0°-30°	237.5	5.9
0°-40°	390.6	9.6
0°-60°	715.1	17.7
0°-90°	1036.0	25.6
90°-120°	584.1	14.4
90°-150°	2226.8	55.0
90°-180°	3015.0	74.4
0°-180°	4051.0	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	39	73	94	100	6
95°	50	47	79	99	104	58
105°	219	253	81	105	112	234
115°	411	428	466	150	103	405
125°	580	589	617	634	640	517
135°	717	728	739	755	758	554
145°	831	830	842	850	849	520
155°	915	909	917	922	916	422
165°	964	960	962	967	962	272
175°	986	981	983	988	981	94
180°	984	984	984	984	984	

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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°	5.1	38.6	72.6	93.8	100.5
92.5°	21.8	42.4	71.5	90.1	96.1
95°	49.8	47.1	78.6	98.9	103.5
97.5°	86.4	47.0	84.0	102.6	108.6
100°	129.1	48.0	84.8	106.9	113.1
102.5°	175.8	188.8	83.1	106.8	113.9
105°	218.7	252.9	81.4	104.8	112.5
107.5°	269.3	297.7	79.8	102.7	110.3
110°	317.3	341.0	156.9	99.8	107.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	362.9	382.7	391.0	98.1	105.2
115°	411.3	428.2	465.9	149.5	103.1
117.5°	452.8	470.6	501.2	412.7	230.5
120°	499.8	512.3	542.8	563.7	472.4
122.5°	539.7	551.6	582.1	598.4	603.0
125°	579.9	589.1	616.8	633.7	639.8
127.5°	616.9	626.4	649.1	667.2	671.9
130°	651.8	662.7	679.8	698.3	701.1
132.5°	687.4	696.2	710.7	727.2	730.1
135°	716.8	728.2	739.1	755.4	757.6
137.5°	748.1	756.7	766.1	781.6	782.5
140°	778.8	784.1	792.8	806.3	805.3
142.5°	804.4	809.0	818.3	829.2	827.9
145°	831.1	830.4	842.5	850.1	848.8
147.5°	854.6	852.4	864.5	868.5	867.1
150°	877.4	872.4	883.8	888.0	884.5
152.5°	896.6	890.9	901.6	905.8	900.9
155°	915.1	908.7	917.2	921.5	915.8
157.5°	930.1	924.4	930.8	935.8	930.1
160°	942.9	938.6	942.9	947.1	942.2
162.5°	954.3	950.0	953.6	958.5	952.1
165°	964.2	960.0	962.1	967.1	962.1
167.5°	972.1	967.8	969.9	974.9	968.5
170°	978.5	974.2	975.6	980.6	974.2
172.5°	982.8	978.5	979.9	984.9	978.5
175°	986.3	981.3	982.8	987.7	980.6
177.5°	987.7	982.8	983.5	988.5	982.0
180°	984.2	984.2	984.2	984.2	984.2

(END OF REPORT)