

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: P1029412

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-F1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029412
REPORT IS A COMBINATION OF REPORTS P985778 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_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

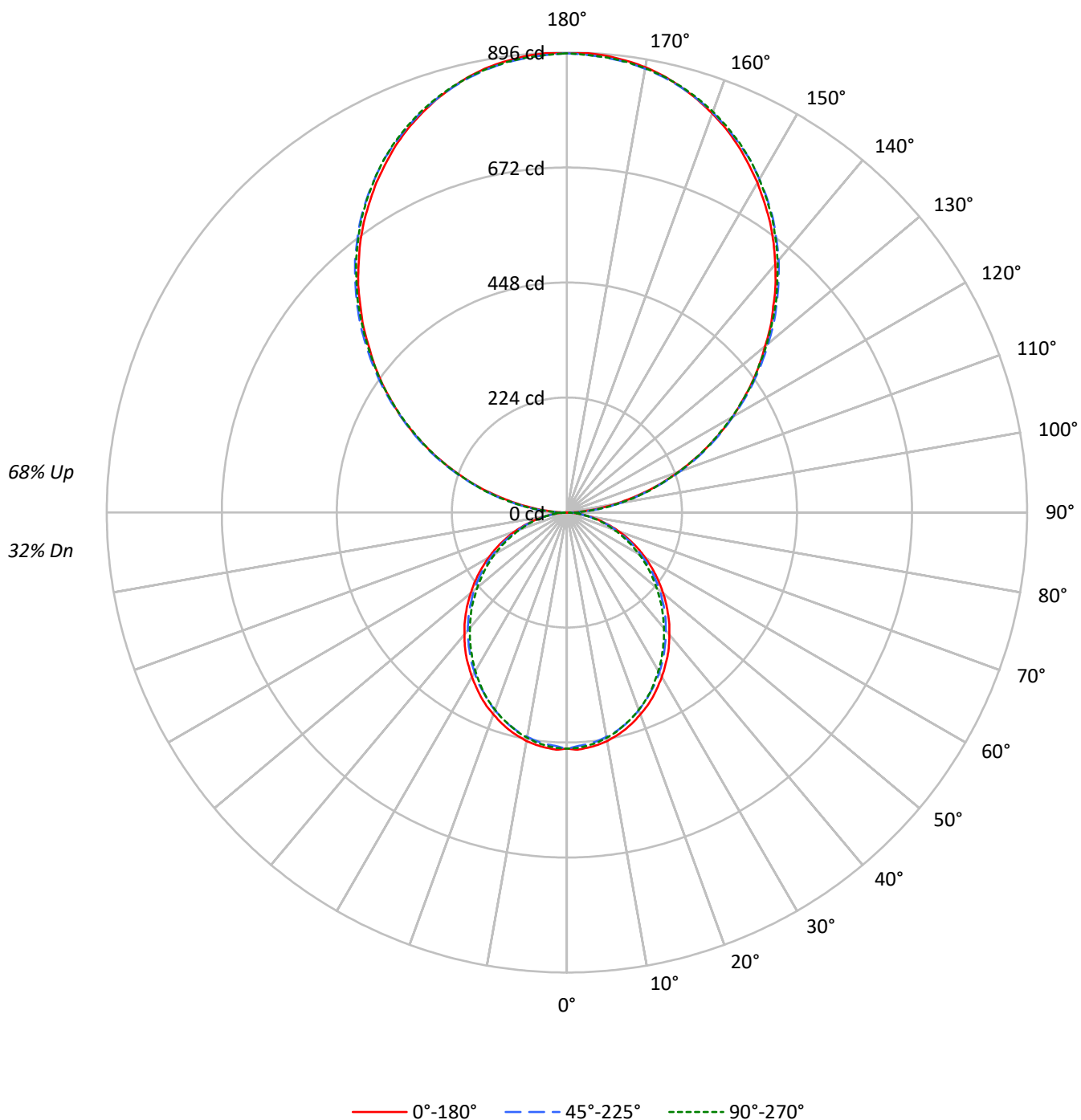
Lumens per Lamp: N/A
Luminaire Lumens: 3673.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	18	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°	7280	7280	7280
5°	7292	6938	6890
10°	7232	6622	6491
15°	7127	6304	6072
20°	6983	5958	5675
25°	6840	5595	5278
30°	6661	5255	4863
35°	6491	4896	4455
40°	6282	4542	4069
45°	6074	4191	3690
50°	5847	3833	3296
55°	5609	3451	2925
60°	5341	3037	2537
65°	5044	2618	2132
70°	4673	2156	1721
75°	4156	1663	1328
80°	3529	1131	856
85°	2557	524	364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	1.2
10°-20°	121.8	3.3
20°-30°	179.0	4.9
30°-40°	207.9	5.7
40°-50°	207.6	5.7
50°-60°	181.0	4.9
60°-70°	133.8	3.6
70°-80°	75.7	2.1
80°-90°	22.5	0.6
90°-100°	55.3	1.5
100°-110°	175.9	4.8
110°-120°	300.9	8.2
120°-130°	395.8	10.8
130°-140°	444.3	12.1
140°-150°	435.7	11.9
150°-160°	365.5	9.9
160°-170°	242.4	6.6
170°-180°	84.7	2.3
0°-30°	344.0	9.4
0°-40°	551.9	15.0
0°-60°	940.5	25.6
0°-90°	1172.5	31.9
90°-120°	532.2	14.5
90°-150°	1807.9	49.2
90°-180°	2500.0	68.1
0°-180°	3673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	460	458	453	457	456	44
15°	438	435	429	431	429	123
25°	396	393	385	386	385	182
35°	342	337	330	328	326	213
45°	278	275	268	264	262	215
55°	210	208	202	197	195	188
65°	142	139	135	131	129	140
75°	74	73	71	68	69	79
85°	18	18	17	16	16	20
90°	1	10	26	25	26	4
95°	39	47	48	48	47	44
105°	162	164	166	168	168	171
115°	302	306	305	304	302	299
125°	439	446	444	442	441	393
135°	568	577	578	577	575	439
145°	690	695	700	700	697	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°	459.9	459.9	459.9	459.9	459.9
2.5°	462.5	460.3	455.5	459.9	459.0
5°	459.9	458.1	453.2	456.8	455.9
7.5°	456.8	454.1	449.3	452.8	451.9
10°	451.9	448.8	443.5	447.1	445.7
12.5°	445.3	442.6	437.3	439.5	438.7
15°	437.8	435.1	429.4	431.1	428.9
17.5°	428.5	425.8	420.1	422.3	420.1
20°	418.3	415.7	409.5	410.8	409.0
22.5°	408.1	404.2	398.4	398.4	397.5
25°	396.2	392.7	385.1	386.0	385.1
27.5°	382.9	379.8	374.1	372.8	370.6
30°	369.7	366.1	359.5	358.2	356.4
32.5°	355.5	352.9	345.8	343.1	341.4
35°	341.8	337.4	330.3	327.7	325.5
37.5°	326.3	322.4	315.3	312.2	310.0
40°	310.4	306.9	299.8	295.8	294.1
42.5°	294.9	291.4	284.3	279.9	277.3
45°	278.1	275.0	268.4	263.5	261.8
47.5°	261.8	258.7	251.6	246.7	244.1
50°	244.5	242.3	236.1	229.9	227.7
52.5°	227.7	224.6	218.9	214.0	210.9
55°	210.5	207.8	202.5	197.2	195.0
57.5°	193.2	191.0	185.3	180.0	178.2
60°	176.0	174.2	168.0	163.2	161.8
62.5°	159.2	156.1	151.7	147.2	145.5
65°	141.9	139.3	134.9	130.9	128.7
67.5°	124.3	122.0	118.1	115.0	113.2
70°	107.9	106.1	102.1	99.1	97.3
72.5°	91.1	89.3	87.1	84.0	82.7
75°	74.3	73.4	71.2	68.5	69.4
77.5°	59.3	57.5	56.6	55.3	53.9
80°	44.2	43.8	42.9	41.6	40.7
82.5°	30.1	30.1	29.6	27.9	27.9
85°	18.1	17.7	17.2	15.9	15.5
87.5°	8.0	7.1	6.2	4.9	4.4
90°	0.8	9.8	26.4	24.9	25.7
92.5°	16.6	22.6	23.4	24.2	24.2
95°	39.2	46.8	48.3	48.3	46.8
97.5°	65.7	72.5	75.5	75.5	75.5
100°	95.9	101.9	104.2	104.2	103.4
102.5°	127.5	132.1	135.1	135.9	135.1
105°	162.3	164.5	166.0	167.6	167.6
107.5°	197.0	200.0	200.0	200.8	197.0
110°	230.2	234.7	234.7	234.7	232.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.4	270.9	270.2	267.9	266.4
115°	301.9	306.4	304.9	304.2	301.9
117.5°	337.4	343.4	339.6	337.4	335.1
120°	372.8	378.9	372.8	372.8	370.6
122.5°	405.3	412.8	409.1	406.8	405.3
125°	439.3	446.0	443.8	441.5	440.8
127.5°	472.5	480.8	477.7	474.7	472.5
130°	503.4	513.2	511.7	510.2	507.2
132.5°	538.1	545.7	546.4	542.7	540.4
135°	568.3	576.6	578.1	577.4	575.1
137.5°	601.5	608.3	609.8	609.1	606.1
140°	631.0	637.7	641.5	641.5	638.5
142.5°	661.1	667.9	670.2	671.0	667.9
145°	689.8	695.1	699.6	700.4	697.4
147.5°	715.5	722.3	725.3	726.8	723.8
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)