

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: P1029417

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029417
REPORT IS A COMBINATION OF REPORTS P985788 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-F_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

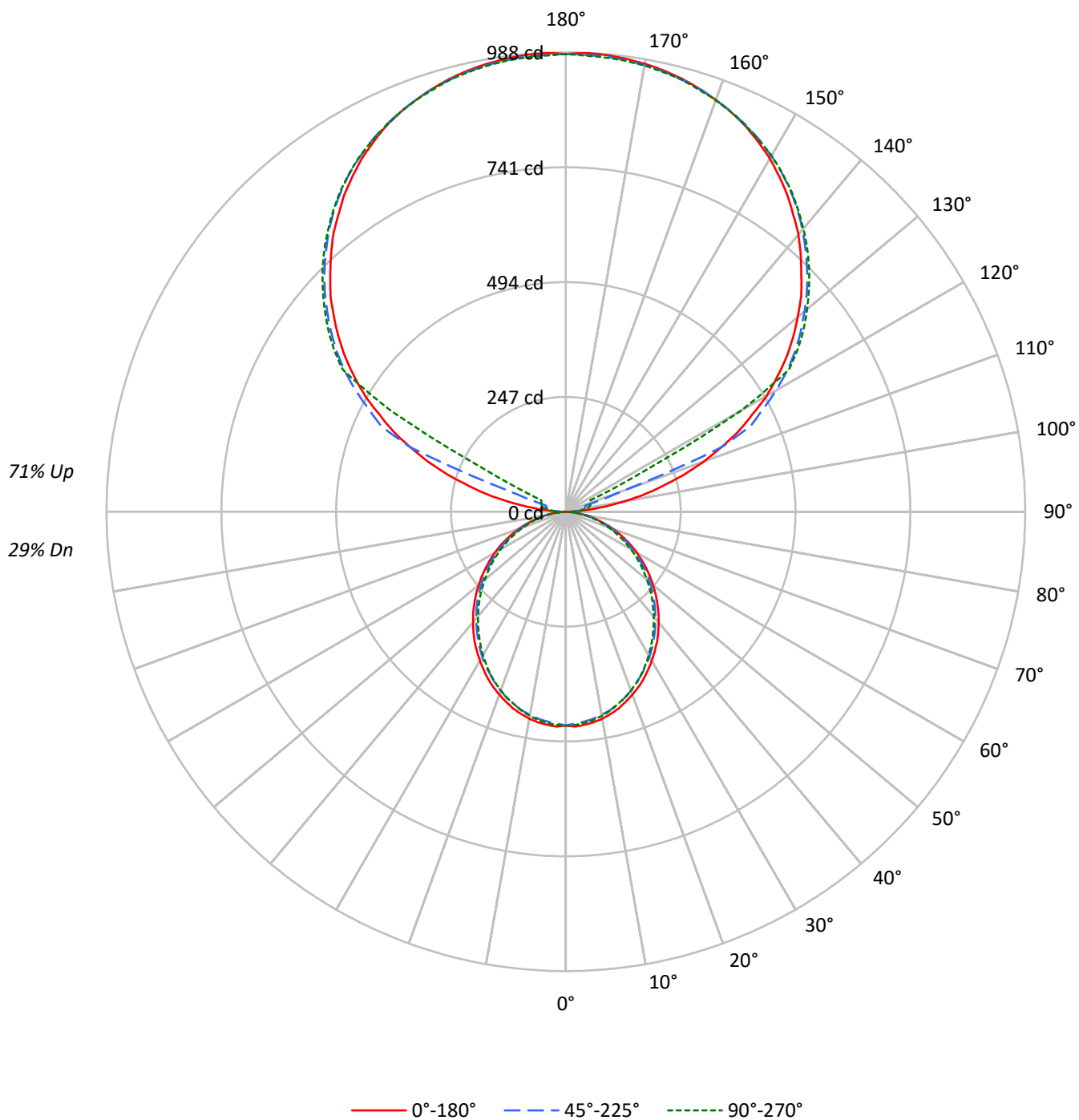
Lumens per Lamp: N/A
Luminaire Lumens: 4057.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	102	102	102	102	91	91	91	91	72	72	72	53	53	53	37	37	37	29			
1	93	89	85	82	83	80	77	74	63	61	59	47	46	44	32	32	31	24			
2	85	78	72	67	76	70	65	60	55	51	48	41	39	37	29	27	26	20			
3	77	68	61	55	69	61	55	50	48	44	41	36	34	31	25	24	22	17			
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	23	21	19	15			
5	65	53	46	40	58	48	41	36	38	33	30	29	26	23	20	18	17	13			
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	15	11			
7	55	43	35	30	49	39	32	27	31	26	23	24	20	18	17	15	13	10			
8	51	39	31	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9			
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8			
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7			

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	1.1
10°-20°	121.8	3.0
20°-30°	179.0	4.4
30°-40°	207.9	5.1
40°-50°	207.6	5.1
50°-60°	181.0	4.5
60°-70°	133.8	3.3
70°-80°	75.7	1.9
80°-90°	21.7	0.5
90°-100°	32.5	0.8
100°-110°	121.0	3.0
110°-120°	320.9	7.9
120°-130°	532.2	13.1
130°-140°	565.3	13.9
140°-150°	525.4	12.9
150°-160°	422.4	10.4
160°-170°	272.2	6.7
170°-180°	93.7	2.3
0°-30°	344.0	8.5
0°-40°	551.9	13.6
0°-60°	940.5	23.2
0°-90°	1171.7	28.9
90°-120°	474.3	11.7
90°-150°	2097.1	51.7
90°-180°	2885.0	71.1
0°-180°	4057.0	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	8	14	18	19	4
95°	46	23	28	31	31	55
105°	216	238	43	51	54	231
115°	410	422	439	110	58	403
125°	579	588	602	607	609	516
135°	716	728	734	741	740	553
145°	831	830	842	847	844	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°	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°	0.7	8.5	14.2	17.8	19.2
92.5°	17.8	15.0	17.1	18.5	19.2
95°	46.3	22.8	27.8	31.3	30.6
97.5°	83.3	24.9	36.3	38.5	39.2
100°	126.0	28.5	40.6	46.3	47.7
102.5°	173.1	171.6	42.0	49.8	52.0
105°	216.5	237.9	43.4	51.3	54.1
107.5°	267.1	284.9	44.9	52.7	55.5
110°	315.5	330.4	124.6	53.4	56.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	361.1	373.9	361.8	54.8	57.0
115°	409.5	421.6	439.4	109.7	58.4
117.5°	451.5	465.7	477.8	376.0	189.4
120°	498.5	509.2	522.0	530.5	434.4
122.5°	538.4	549.8	564.0	568.3	569.0
125°	579.0	588.2	601.8	606.7	608.9
127.5°	616.0	626.0	636.7	643.8	644.5
130°	650.9	662.3	670.1	678.0	677.2
132.5°	686.5	695.8	703.6	710.0	709.3
135°	716.4	727.8	734.2	741.3	739.9
137.5°	747.7	756.3	763.4	770.5	768.4
140°	778.4	784.1	791.9	798.3	794.7
142.5°	804.0	809.0	818.3	823.9	820.4
145°	831.1	830.4	842.5	847.4	843.9
147.5°	854.6	852.4	864.5	868.1	865.3
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)