

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: P1029415

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029415
REPORT IS A COMBINATION OF REPORTS P985781 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_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

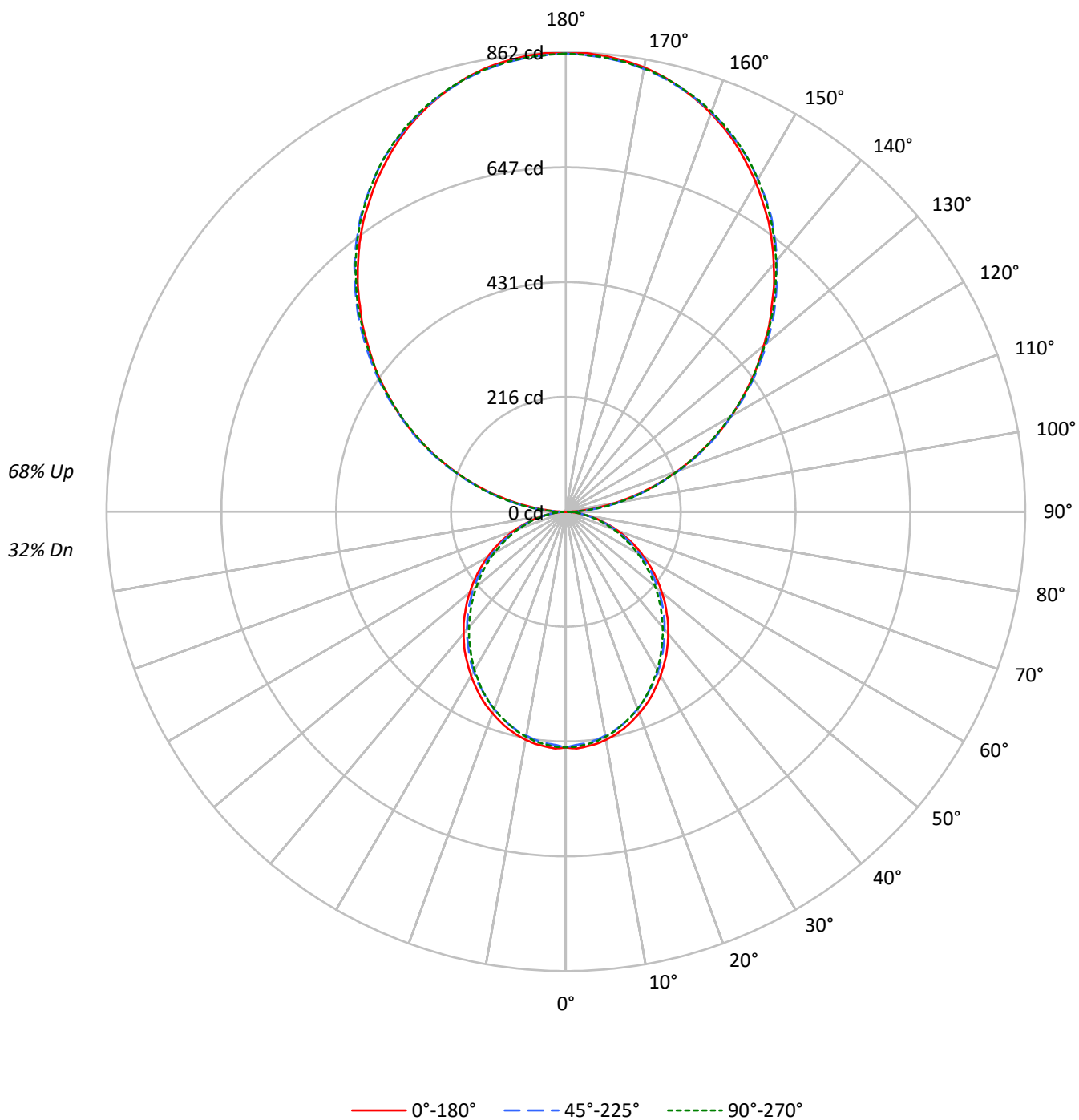
Lumens per Lamp: N/A
Luminaire Lumens: 3532.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	7000	7000	7000
5°	7011	6672	6625
10°	6953	6368	6242
15°	6852	6062	5838
20°	6714	5728	5457
25°	6578	5380	5075
30°	6405	5054	4676
35°	6243	4708	4283
40°	6041	4368	3911
45°	5840	4030	3548
50°	5622	3686	3170
55°	5393	3318	2812
60°	5134	2922	2440
65°	4852	2517	2049
70°	4491	2074	1654
75°	3994	1600	1279
80°	3393	1086	822
85°	2458	506	350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5840 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	1.2
10°-20°	117.1	3.3
20°-30°	172.1	4.9
30°-40°	199.9	5.7
40°-50°	199.6	5.7
50°-60°	174.1	4.9
60°-70°	128.7	3.6
70°-80°	72.8	2.1
80°-90°	21.7	0.6
90°-100°	53.2	1.5
100°-110°	169.1	4.8
110°-120°	289.4	8.2
120°-130°	380.6	10.8
130°-140°	427.2	12.1
140°-150°	419.0	11.9
150°-160°	351.4	10.0
160°-170°	233.1	6.6
170°-180°	81.5	2.3
0°-30°	330.8	9.4
0°-40°	530.7	15.0
0°-60°	904.3	25.6
0°-90°	1127.5	31.9
90°-120°	511.7	14.5
90°-150°	1738.5	49.2
90°-180°	2405.0	68.1
0°-180°	3532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	442	440	436	439	438	42
15°	421	418	413	415	412	119
25°	381	378	370	371	370	175
35°	329	324	318	315	313	205
45°	267	264	258	253	252	206
55°	202	200	195	190	188	181
65°	136	134	130	126	124	135
75°	71	71	68	66	67	76
85°	17	17	17	15	15	19
90°	1	9	25	24	25	3
95°	38	45	46	46	45	42
105°	156	158	160	161	161	165
115°	290	295	293	292	290	287
125°	422	429	427	425	424	377
135°	546	554	556	555	553	422
145°	663	668	673	674	671	414
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°	442.2	442.2	442.2	442.2	442.2
2.5°	444.7	442.6	437.9	442.2	441.3
5°	442.2	440.5	435.8	439.2	438.4
7.5°	439.2	436.7	432.0	435.4	434.5
10°	434.5	431.6	426.5	429.9	428.6
12.5°	428.2	425.6	420.5	422.6	421.8
15°	420.9	418.4	412.9	414.6	412.4
17.5°	412.0	409.5	403.9	406.0	403.9
20°	402.2	399.7	393.7	395.0	393.3
22.5°	392.4	388.6	383.1	383.1	382.2
25°	381.0	377.6	370.3	371.2	370.3
27.5°	368.2	365.2	359.7	358.4	356.3
30°	355.5	352.1	345.7	344.4	342.7
32.5°	341.8	339.3	332.5	329.9	328.2
35°	328.7	324.4	317.6	315.1	312.9
37.5°	313.8	310.0	303.2	300.2	298.1
40°	298.5	295.1	288.3	284.4	282.7
42.5°	283.6	280.2	273.4	269.1	266.6
45°	267.4	264.5	258.1	253.4	251.7
47.5°	251.7	248.7	241.9	237.3	234.7
50°	235.1	233.0	227.0	221.1	219.0
52.5°	219.0	216.0	210.5	205.8	202.8
55°	202.4	199.8	194.7	189.6	187.5
57.5°	185.8	183.7	178.2	173.0	171.3
60°	169.2	167.5	161.6	156.9	155.6
62.5°	153.1	150.1	145.8	141.6	139.9
65°	136.5	133.9	129.7	125.9	123.7
67.5°	119.5	117.4	113.5	110.5	108.8
70°	103.7	102.0	98.2	95.2	93.5
72.5°	87.6	85.9	83.8	80.8	79.5
75°	71.4	70.6	68.5	65.9	66.8
77.5°	57.0	55.3	54.4	53.1	51.9
80°	42.5	42.1	41.2	40.0	39.1
82.5°	28.9	28.9	28.5	26.8	26.8
85°	17.4	17.0	16.6	15.3	14.9
87.5°	7.7	6.8	6.0	4.7	4.3
90°	0.7	9.4	25.4	24.0	24.7
92.5°	16.0	21.8	22.5	23.2	23.2
95°	37.7	45.0	46.5	46.5	45.0
97.5°	63.1	69.7	72.6	72.6	72.6
100°	92.2	98.0	100.2	100.2	99.4
102.5°	122.7	127.0	129.9	130.6	129.9
105°	156.0	158.2	159.7	161.1	161.1
107.5°	189.4	192.3	192.3	193.1	189.4
110°	221.4	225.7	225.7	225.7	223.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	256.2	260.6	259.8	257.7	256.2
115°	290.3	294.7	293.2	292.5	290.3
117.5°	324.4	330.2	326.6	324.4	322.2
120°	358.5	364.3	358.5	358.5	356.4
122.5°	389.7	397.0	393.4	391.2	389.7
125°	422.4	428.9	426.8	424.6	423.9
127.5°	454.3	462.3	459.4	456.5	454.3
130°	484.1	493.5	492.1	490.6	487.7
132.5°	517.5	524.7	525.5	521.8	519.7
135°	546.5	554.5	556.0	555.2	553.0
137.5°	578.5	585.0	586.4	585.7	582.8
140°	606.8	613.3	616.9	616.9	614.0
142.5°	635.8	642.3	644.5	645.2	642.3
145°	663.4	668.4	672.8	673.5	670.6
147.5°	688.0	694.6	697.5	698.9	696.0
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)