

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: P1029551

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-D1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029551
REPORT IS A COMBINATION OF REPORTS P986215 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D710UB2750-4F0-XX-W2A-D1_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

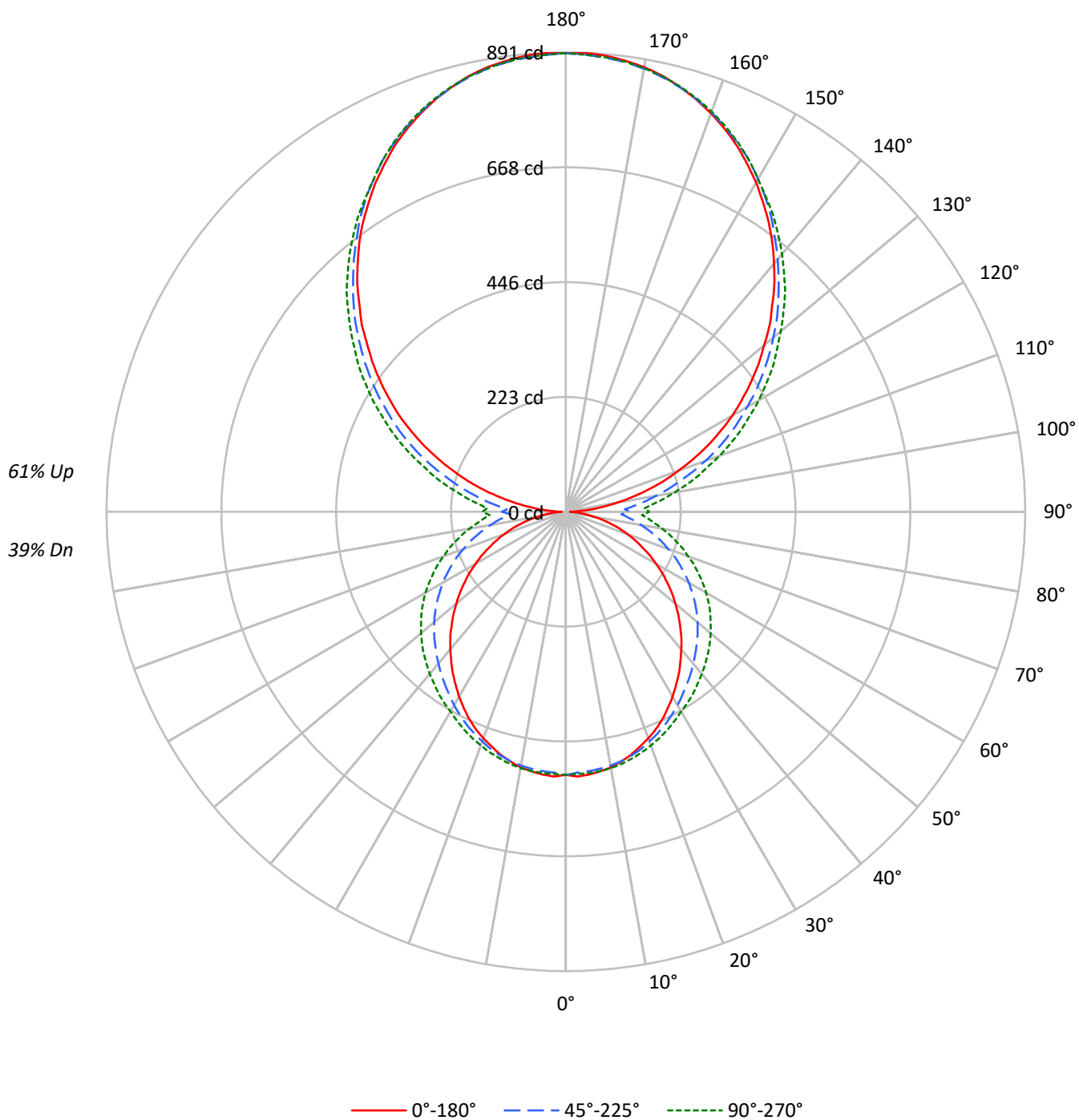
Lumens per Lamp: N/A
Luminaire Lumens: 4436.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 47.2
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46
1	94	89	85	81	85	81	78	74	66	63	61	52	50	48	39	38	37
2	85	77	71	65	77	70	65	60	57	53	49	45	42	39	33	32	30
3	77	68	60	54	70	61	55	49	50	45	41	39	36	33	29	27	25
4	71	59	51	45	64	54	47	42	44	39	35	35	31	28	26	23	21
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18
6	59	47	39	33	54	43	36	30	35	30	25	28	24	21	21	18	16
7	55	42	34	29	50	39	32	27	32	26	22	25	21	18	19	16	14
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	15	12
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11
10	44	32	25	20	40	29	23	18	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8078	8078	8078
5°	8113	7733	7689
10°	8059	7464	7356
15°	7946	7188	7014
20°	7802	6896	6690
25°	7660	6618	6395
30°	7461	6336	6104
35°	7260	6063	5891
40°	7049	5826	5678
45°	6849	5612	5493
50°	6631	5415	5310
55°	6403	5205	5125
60°	6127	4986	4929
65°	5837	4736	4704
70°	5509	4467	4462
75°	5091	4198	4232
80°	4431	3916	3996
85°	3757	3653	3791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.1
10°-20°	138.7	3.1
20°-30°	210.2	4.7
30°-40°	256.0	5.8
40°-50°	275.4	6.2
50°-60°	267.5	6.0
60°-70°	233.6	5.3
70°-80°	179.8	4.1
80°-90°	122.9	2.8
90°-100°	138.1	3.1
100°-110°	235.5	5.3
110°-120°	339.3	7.6
120°-130°	415.9	9.4
130°-140°	451.1	10.2
140°-150°	434.8	9.8
150°-160°	363.4	8.2
160°-170°	241.0	5.4
170°-180°	84.2	1.9
0°-30°	397.3	9.0
0°-40°	653.3	14.7
0°-60°	1196.2	27.0
0°-90°	1732.5	39.1
90°-120°	713.0	16.1
90°-150°	2014.8	45.4
90°-180°	2703.0	60.9
0°-180°	4436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	512	510	505	510	509	49
15°	488	490	490	496	496	137
25°	444	449	456	464	467	204
35°	382	395	409	425	430	239
45°	314	334	359	382	390	242
55°	240	267	305	332	342	215
65°	164	200	244	274	284	163
75°	91	132	180	212	221	96
85°	27	72	120	151	161	28
90°	8	60	124	152	162	8
95°	45	87	133	161	168	48
105°	165	189	229	256	264	175
115°	303	316	348	369	375	300
125°	438	445	466	484	490	392
135°	566	574	583	598	602	437
145°	686	691	696	701	702	429
155°	784	786	789	792	790	361
165°	853	853	853	858	854	241
175°	888	886	884	889	885	84
180°	889	889	889	889	889	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.3	510.3	510.3	510.3	510.3
2.5°	514.0	511.7	506.6	510.3	508.8
5°	511.7	509.5	505.1	509.5	508.8
7.5°	508.0	506.6	502.9	508.0	507.3
10°	503.6	502.1	499.9	505.8	505.1
12.5°	496.2	497.0	495.5	501.4	500.7
15°	488.1	489.6	489.6	496.2	495.5
17.5°	477.7	480.7	482.9	489.6	489.6
20°	467.4	471.1	474.0	482.2	482.2
22.5°	456.3	460.7	465.2	473.3	474.8
25°	443.7	448.9	455.5	464.4	466.6
27.5°	428.9	437.1	444.4	455.5	457.0
30°	414.1	423.7	433.4	445.2	447.4
32.5°	397.9	409.0	420.8	434.8	439.3
35°	382.3	394.9	409.0	425.2	430.4
37.5°	365.3	379.4	397.1	414.9	420.0
40°	348.3	364.6	384.5	403.8	410.4
42.5°	332.0	348.3	372.0	393.4	400.1
45°	313.6	333.5	359.4	382.3	389.7
47.5°	295.8	317.3	346.8	370.5	378.6
50°	277.3	300.2	333.5	358.7	366.8
52.5°	259.6	284.0	319.5	345.4	354.2
55°	240.3	267.0	305.4	332.0	341.7
57.5°	221.9	251.4	289.9	318.7	328.3
60°	201.9	233.7	275.8	303.9	314.3
62.5°	184.1	217.4	259.6	289.9	299.5
65°	164.2	200.4	244.0	274.4	284.0
67.5°	146.4	184.1	228.5	258.8	269.2
70°	127.2	165.7	211.5	243.3	252.2
72.5°	109.4	149.4	196.0	227.0	238.1
75°	91.0	132.4	179.7	211.5	221.1
77.5°	73.2	116.1	164.2	196.0	206.3
80°	55.5	100.6	148.6	179.7	190.1
82.5°	40.7	85.0	133.9	164.9	174.5
85°	26.6	72.5	119.8	150.9	161.2
87.5°	16.3	60.6	108.0	138.3	147.9
90°	8.2	60.1	123.9	152.0	161.6
92.5°	23.2	68.4	114.3	143.8	152.7
95°	44.9	87.2	133.0	161.1	168.5
97.5°	70.5	109.0	155.0	182.3	191.2
100°	100.5	133.8	177.6	204.9	212.2
102.5°	131.2	160.1	203.1	230.5	237.8
105°	165.1	188.7	228.7	256.1	264.2
107.5°	199.6	220.3	257.3	283.2	287.6
110°	231.9	251.1	287.4	311.0	317.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.9	284.2	317.5	338.9	345.5
115°	303.2	315.8	347.6	369.1	374.9
117.5°	337.7	349.6	376.9	396.9	402.0
120°	373.0	382.0	405.6	426.3	432.1
122.5°	405.2	413.5	437.1	454.8	459.9
125°	438.3	445.1	466.4	484.1	490.1
127.5°	471.3	478.8	495.8	511.3	515.7
130°	502.1	511.0	525.1	541.3	544.2
132.5°	536.6	543.3	555.2	568.4	572.2
135°	565.8	574.1	583.0	597.8	601.5
137.5°	598.9	605.6	610.8	624.2	626.4
140°	628.1	634.2	639.4	651.2	652.6
142.5°	658.1	664.2	666.5	676.1	676.8
145°	686.0	691.2	695.7	700.9	701.6
147.5°	711.5	718.2	721.2	723.4	722.7
150°	737.8	742.3	745.3	747.5	745.3
152.5°	761.0	765.5	769.3	772.3	769.3
155°	784.3	786.5	788.8	792.5	790.3
157.5°	804.5	806.0	807.5	812.8	809.1
160°	822.6	824.1	824.8	829.3	826.3
162.5°	839.1	839.1	839.8	845.1	841.3
165°	853.3	852.6	852.6	857.8	854.1
167.5°	866.1	863.8	863.8	869.1	865.3
170°	875.8	873.6	872.8	878.1	873.6
172.5°	882.6	880.3	879.6	884.9	880.3
175°	887.9	885.6	884.1	889.4	884.9
177.5°	890.9	888.6	887.1	891.6	887.1
180°	889.4	889.4	889.4	889.4	889.4

(END OF REPORT)