

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: P1029562

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029562
REPORT IS A COMBINATION OF REPORTS P986231 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-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

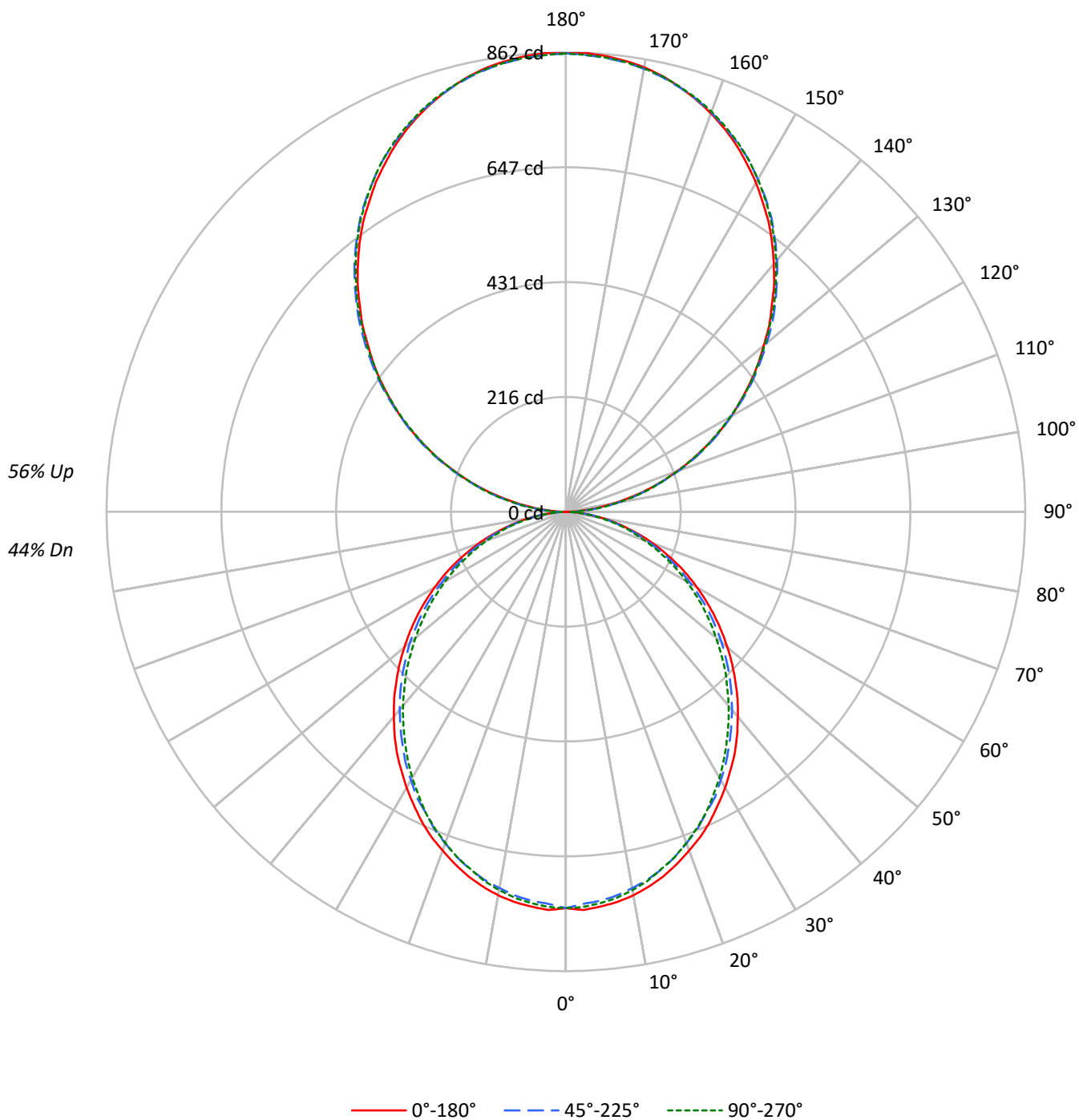
Lumens per Lamp: N/A
Luminaire Lumens: 4299.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	38	36
3	80	71	63	58	73	65	59	54	54	50	46	44	41	38	35	33	31
4	73	63	55	49	67	58	51	45	48	43	39	39	36	33	31	29	26
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	23	20
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	27	23	27	22	19	21	18	16
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11772	11772	11772
5°	11791	11220	11141
10°	11695	10709	10497
15°	11524	10194	9819
20°	11291	9633	9177
25°	11061	9048	8536
30°	10771	8498	7863
35°	10497	7919	7203
40°	10160	7345	6579
45°	9824	6777	5966
50°	9455	6199	5332
55°	9070	5582	4729
60°	8636	4912	4104
65°	8159	4233	3447
70°	7557	3489	2783
75°	6718	2689	2149
80°	5708	1829	1383
85°	4139	851	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.6
10°-20°	196.9	4.6
20°-30°	289.4	6.7
30°-40°	336.1	7.8
40°-50°	335.7	7.8
50°-60°	292.7	6.8
60°-70°	216.4	5.0
70°-80°	122.4	2.8
80°-90°	34.7	0.8
90°-100°	53.2	1.2
100°-110°	169.1	3.9
110°-120°	289.4	6.7
120°-130°	380.6	8.9
130°-140°	427.2	9.9
140°-150°	419.0	9.7
150°-160°	351.4	8.2
160°-170°	233.1	5.4
170°-180°	81.5	1.9
0°-30°	556.3	12.9
0°-40°	892.4	20.8
0°-60°	1520.9	35.4
0°-90°	1894.4	44.1
90°-120°	511.7	11.9
90°-150°	1738.5	40.4
90°-180°	2405.0	55.9
0°-180°	4299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	744	741	733	739	737	71
15°	708	704	694	697	694	199
25°	641	635	623	624	623	295
35°	553	546	534	530	526	345
45°	450	445	434	426	423	347
55°	340	336	328	319	315	304
65°	230	225	218	212	208	227
75°	120	119	115	111	112	128
85°	29	29	28	26	25	33
90°	1	9	25	24	25	4
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°	743.7	743.7	743.7	743.7	743.7
2.5°	748.0	744.4	736.5	743.7	742.2
5°	743.7	740.8	732.9	738.7	737.2
7.5°	738.7	734.4	726.5	732.2	730.8
10°	730.8	725.8	717.2	722.9	720.8
12.5°	720.1	715.8	707.2	710.8	709.3
15°	707.9	703.6	694.3	697.2	693.6
17.5°	692.9	688.6	679.3	682.9	679.3
20°	676.4	672.2	662.1	664.3	661.4
22.5°	660.0	653.6	644.3	644.3	642.8
25°	640.7	635.0	622.8	624.2	622.8
27.5°	619.2	614.2	604.9	602.8	599.2
30°	597.8	592.1	581.3	579.2	576.3
32.5°	574.9	570.6	559.2	554.9	552.0
35°	552.7	545.6	534.2	529.9	526.3
37.5°	527.7	521.3	509.8	504.8	501.3
40°	502.0	496.3	484.8	478.4	475.5
42.5°	476.9	471.2	459.8	452.6	448.3
45°	449.8	444.8	434.0	426.2	423.3
47.5°	423.3	418.3	406.9	399.0	394.7
50°	395.4	391.9	381.8	371.8	368.3
52.5°	368.3	363.3	354.0	346.1	341.1
55°	340.4	336.1	327.5	318.9	315.3
57.5°	312.5	308.9	299.6	291.0	288.2
60°	284.6	281.7	271.7	263.9	261.7
62.5°	257.4	252.4	245.3	238.1	235.3
65°	229.5	225.2	218.1	211.7	208.1
67.5°	200.9	197.4	190.9	185.9	183.1
70°	174.5	171.6	165.2	160.2	157.3
72.5°	147.3	144.4	140.9	135.9	133.7
75°	120.1	118.7	115.1	110.8	112.3
77.5°	95.8	93.0	91.5	89.4	87.2
80°	71.5	70.8	69.4	67.2	65.8
82.5°	48.6	48.6	47.9	45.0	45.0
85°	29.3	28.6	27.9	25.7	25.0
87.5°	12.9	11.4	10.0	7.9	7.2
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)