

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: P1029567

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029567
REPORT IS A COMBINATION OF REPORTS P986241 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-F_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

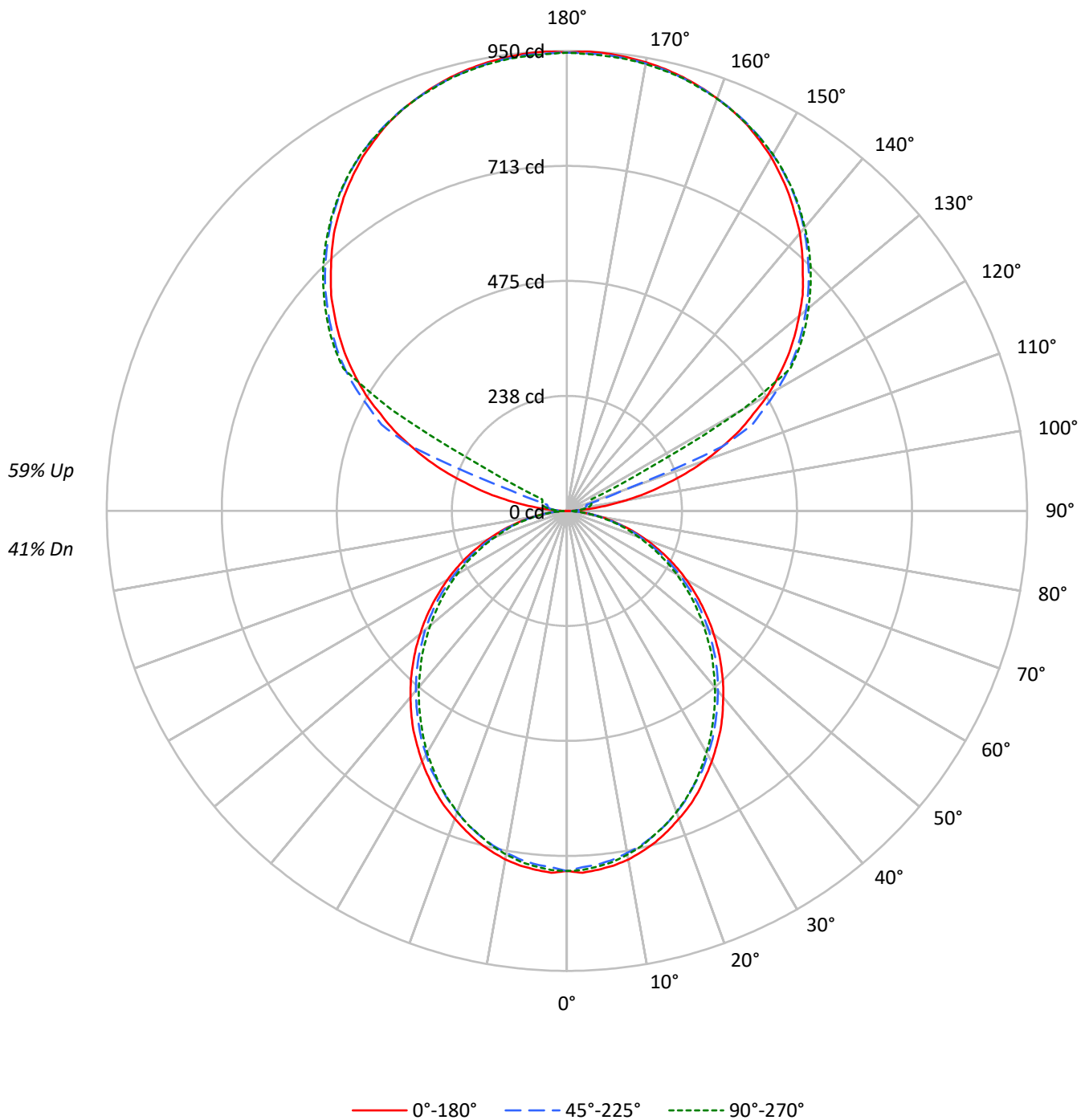
Lumens per Lamp: N/A
Luminaire Lumens: 4668.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47			41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40			34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34			29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	36	33	31	29			24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25			21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22			18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19			16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17			14
8	53	40	33	28	48	37	30	26	31	26	22	25	21	19	20	17	15			13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	14			11
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12			10

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	1.5
10°-20°	196.9	4.2
20°-30°	289.4	6.2
30°-40°	336.1	7.2
40°-50°	335.7	7.2
50°-60°	292.7	6.3
60°-70°	216.4	4.6
70°-80°	122.4	2.6
80°-90°	34.0	0.7
90°-100°	31.2	0.7
100°-110°	116.3	2.5
110°-120°	308.5	6.6
120°-130°	511.7	11.0
130°-140°	543.5	11.6
140°-150°	505.2	10.8
150°-160°	406.1	8.7
160°-170°	261.7	5.6
170°-180°	90.1	1.9
0°-30°	556.3	11.9
0°-40°	892.4	19.1
0°-60°	1520.9	32.6
0°-90°	1893.7	40.6
90°-120°	456.0	9.8
90°-150°	2016.4	43.2
90°-180°	2774.0	59.4
0°-180°	4668.0	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	8	14	17	18	4
95°	44	22	27	30	29	53
105°	208	229	42	49	52	222
115°	394	405	422	106	56	388
125°	557	566	579	583	586	497
135°	689	700	706	713	712	532
145°	799	798	810	815	811	500
155°	880	874	882	886	881	405
165°	927	923	925	930	925	262
175°	948	944	945	950	943	90
180°	946	946	946	946	946	

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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	8.2	13.7	17.1	18.5
92.5°	17.1	14.4	16.4	17.8	18.5
95°	44.5	21.9	26.7	30.1	29.4
97.5°	80.1	24.0	34.9	37.0	37.7
100°	121.2	27.4	39.0	44.5	45.9
102.5°	166.4	165.0	40.4	47.9	50.0
105°	208.2	228.7	41.8	49.3	52.0
107.5°	256.8	273.9	43.1	50.7	53.4
110°	303.3	317.7	119.8	51.4	54.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	347.2	359.5	347.9	52.7	54.8
115°	393.7	405.4	422.5	105.5	56.2
117.5°	434.1	447.8	459.5	361.6	182.1
120°	479.3	489.6	501.9	510.1	417.7
122.5°	517.7	528.6	542.3	546.4	547.1
125°	556.7	565.6	578.6	583.4	585.5
127.5°	592.3	601.9	612.2	619.0	619.7
130°	625.9	636.8	644.4	651.9	651.2
132.5°	660.1	669.0	676.5	682.7	682.0
135°	688.9	699.8	706.0	712.8	711.5
137.5°	719.0	727.2	734.1	740.9	738.9
140°	748.4	753.9	761.5	767.6	764.2
142.5°	773.1	777.9	786.8	792.3	788.8
145°	799.1	798.4	810.1	814.9	811.4
147.5°	821.7	819.7	831.3	834.7	832.0
150°	843.6	838.8	849.8	853.9	850.5
152.5°	862.1	856.6	866.9	871.0	866.2
155°	879.9	873.8	882.0	886.1	880.6
157.5°	894.3	888.8	895.0	899.8	894.3
160°	906.6	902.5	906.6	910.7	905.9
162.5°	917.6	913.5	916.9	921.7	915.5
165°	927.2	923.1	925.1	929.9	925.1
167.5°	934.7	930.6	932.6	937.4	931.3
170°	940.9	936.8	938.1	942.9	936.8
172.5°	945.0	940.9	942.2	947.0	940.9
175°	948.4	943.6	945.0	949.8	942.9
177.5°	949.8	945.0	945.7	950.4	944.3
180°	946.3	946.3	946.3	946.3	946.3

(END OF REPORT)