

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: P1029566

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029566
REPORT IS A COMBINATION OF REPORTS P986240 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_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

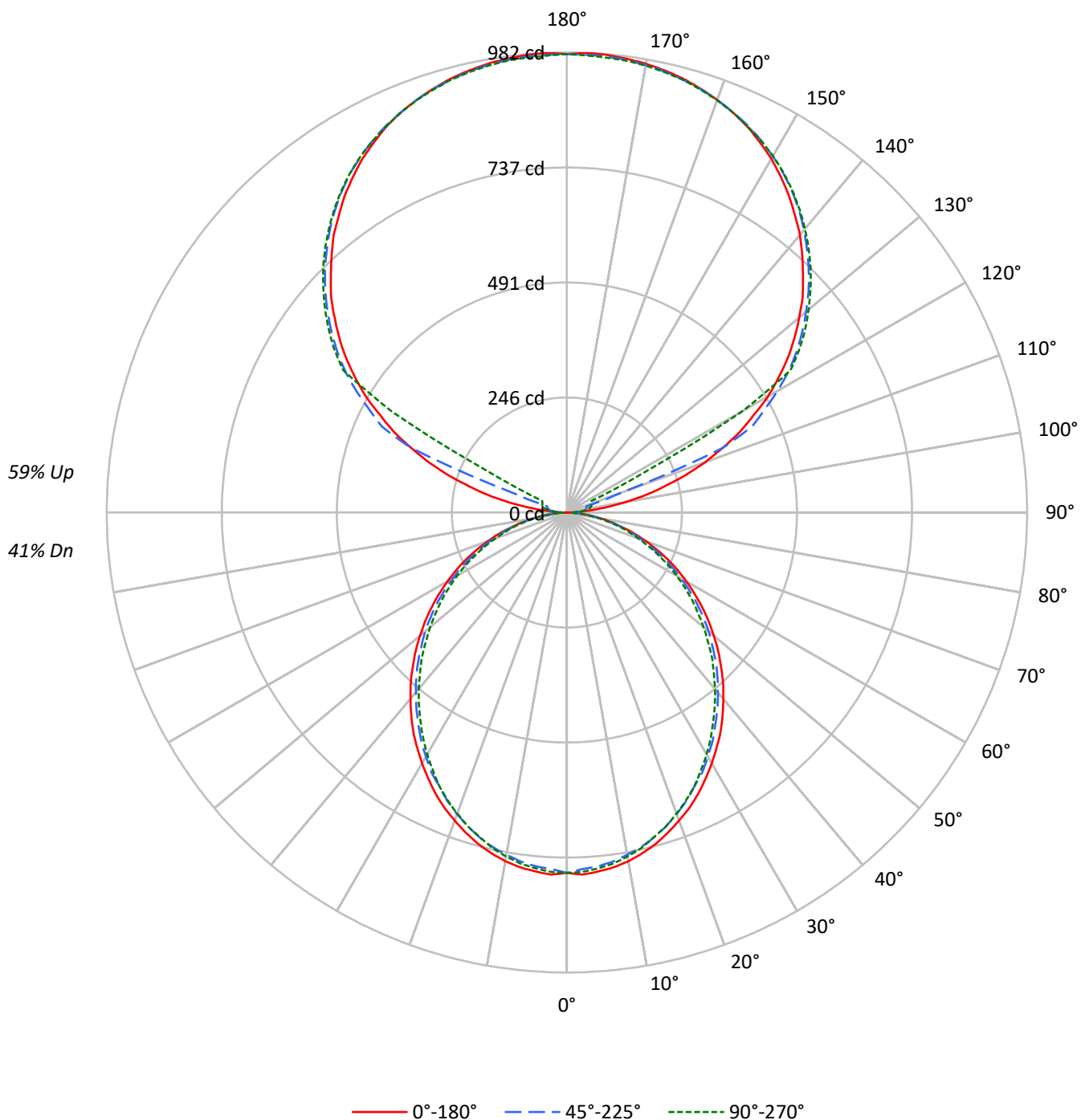
Lumens per Lamp: N/A
Luminaire Lumens: 4827.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	12176	12176	12176
5°	12196	11606	11524
10°	12097	11076	10857
15°	11919	10544	10156
20°	11680	9965	9493
25°	11441	9359	8829
30°	11141	8790	8133
35°	10857	8190	7451
40°	10508	7598	6805
45°	10160	7011	6172
50°	9781	6413	5514
55°	9382	5772	4892
60°	8933	5082	4245
65°	8439	4378	3564
70°	7817	3609	2878
75°	6953	2782	2222
80°	5908	1889	1430
85°	4280	878	609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10160 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.5
10°-20°	203.7	4.2
20°-30°	299.3	6.2
30°-40°	347.7	7.2
40°-50°	347.2	7.2
50°-60°	302.8	6.3
60°-70°	223.8	4.6
70°-80°	126.6	2.6
80°-90°	35.1	0.7
90°-100°	32.3	0.7
100°-110°	120.3	2.5
110°-120°	319.0	6.6
120°-130°	529.0	11.0
130°-140°	561.9	11.6
140°-150°	522.3	10.8
150°-160°	419.9	8.7
160°-170°	270.6	5.6
170°-180°	93.1	1.9
0°-30°	575.4	11.9
0°-40°	923.1	19.1
0°-60°	1573.1	32.6
0°-90°	1958.7	40.6
90°-120°	471.5	9.8
90°-150°	2084.7	43.2
90°-180°	2868.0	59.4
0°-180°	4827.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	766	758	764	763	73
15°	732	728	718	721	717	206
25°	663	657	644	646	644	305
35°	572	564	552	548	544	357
45°	465	460	449	441	438	359
55°	352	348	339	330	326	315
65°	237	233	226	219	215	235
75°	124	123	119	115	116	133
85°	30	30	29	27	26	34
90°	1	8	14	18	19	4
95°	46	23	28	31	30	54
105°	215	236	43	51	54	230
115°	407	419	437	109	58	401
125°	576	585	598	603	605	513
135°	712	724	730	737	736	550
145°	826	826	838	842	839	517
155°	910	903	912	916	910	419
165°	959	954	956	961	956	271
175°	980	976	977	982	975	93
180°	978	978	978	978	978	

TEST NUMBER: P1029566

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.2	769.2	769.2	769.2	769.2
2.5°	773.7	770.0	761.8	769.2	767.7
5°	769.2	766.3	758.1	764.0	762.6
7.5°	764.0	759.6	751.5	757.4	755.9
10°	755.9	750.7	741.8	747.8	745.5
12.5°	744.8	740.4	731.5	735.2	733.7
15°	732.2	727.8	718.2	721.1	717.4
17.5°	716.7	712.3	702.6	706.3	702.6
20°	699.7	695.2	684.9	687.1	684.2
22.5°	682.7	676.0	666.4	666.4	664.9
25°	662.7	656.8	644.2	645.7	644.2
27.5°	640.5	635.3	625.7	623.5	619.8
30°	618.3	612.4	601.3	599.1	596.1
32.5°	594.7	590.2	578.4	574.0	571.0
35°	571.7	564.3	552.5	548.1	544.4
37.5°	545.8	539.2	527.4	522.2	518.5
40°	519.2	513.3	501.5	494.8	491.9
42.5°	493.3	487.4	475.6	468.2	463.7
45°	465.2	460.0	449.0	440.8	437.9
47.5°	437.9	432.7	420.8	412.7	408.3
50°	409.0	405.3	395.0	384.6	380.9
52.5°	380.9	375.7	366.1	358.0	352.8
55°	352.1	347.6	338.7	329.9	326.2
57.5°	323.2	319.5	309.9	301.0	298.1
60°	294.4	291.4	281.1	272.9	270.7
62.5°	266.3	261.1	253.7	246.3	243.3
65°	237.4	233.0	225.6	218.9	215.2
67.5°	207.8	204.1	197.5	192.3	189.3
70°	180.5	177.5	170.9	165.7	162.7
72.5°	152.4	149.4	145.7	140.5	138.3
75°	124.3	122.8	119.1	114.6	116.1
77.5°	99.1	96.2	94.7	92.5	90.2
80°	74.0	73.2	71.7	69.5	68.0
82.5°	50.3	50.3	49.6	46.6	46.6
85°	30.3	29.6	28.8	26.6	25.9
87.5°	13.3	11.8	10.4	8.1	7.4
90°	0.7	8.5	14.2	17.7	19.1
92.5°	17.7	14.9	17.0	18.4	19.1
95°	46.0	22.7	27.6	31.1	30.4
97.5°	82.8	24.8	36.1	38.2	38.9
100°	125.3	28.3	40.4	46.0	47.4
102.5°	172.0	170.6	41.8	49.6	51.7
105°	215.2	236.5	43.2	51.0	53.8
107.5°	265.5	283.2	44.6	52.4	55.2
110°	313.6	328.5	123.9	53.1	55.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	358.9	371.7	359.6	54.5	56.6
115°	407.1	419.1	436.8	109.0	58.1
117.5°	448.8	463.0	475.0	373.8	188.3
120°	495.6	506.2	518.9	527.4	431.8
122.5°	535.2	546.5	560.7	564.9	565.7
125°	575.6	584.8	598.2	603.2	605.3
127.5°	612.4	622.3	632.9	640.0	640.7
130°	647.1	658.4	666.2	674.0	673.3
132.5°	682.5	691.7	699.5	705.8	705.1
135°	712.2	723.5	729.9	737.0	735.6
137.5°	743.3	751.8	758.9	766.0	763.9
140°	773.8	779.5	787.2	793.6	790.1
142.5°	799.3	804.2	813.4	819.1	815.6
145°	826.2	825.5	837.5	842.5	838.9
147.5°	849.5	847.4	859.4	863.0	860.2
150°	872.2	867.2	878.6	882.8	879.3
152.5°	891.3	885.6	896.3	900.5	895.6
155°	909.7	903.3	911.8	916.1	910.4
157.5°	924.6	918.9	925.3	930.2	924.6
160°	937.3	933.1	937.3	941.6	936.6
162.5°	948.7	944.4	947.9	952.9	946.5
165°	958.6	954.3	956.4	961.4	956.4
167.5°	966.3	962.1	964.2	969.2	962.8
170°	972.7	968.5	969.9	974.8	968.5
172.5°	977.0	972.7	974.1	979.1	972.7
175°	980.5	975.6	977.0	981.9	974.8
177.5°	981.9	977.0	977.7	982.6	976.3
180°	978.4	978.4	978.4	978.4	978.4

(END OF REPORT)