

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: P1029561

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-F1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029561
REPORT IS A COMBINATION OF REPORTS P986230 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_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

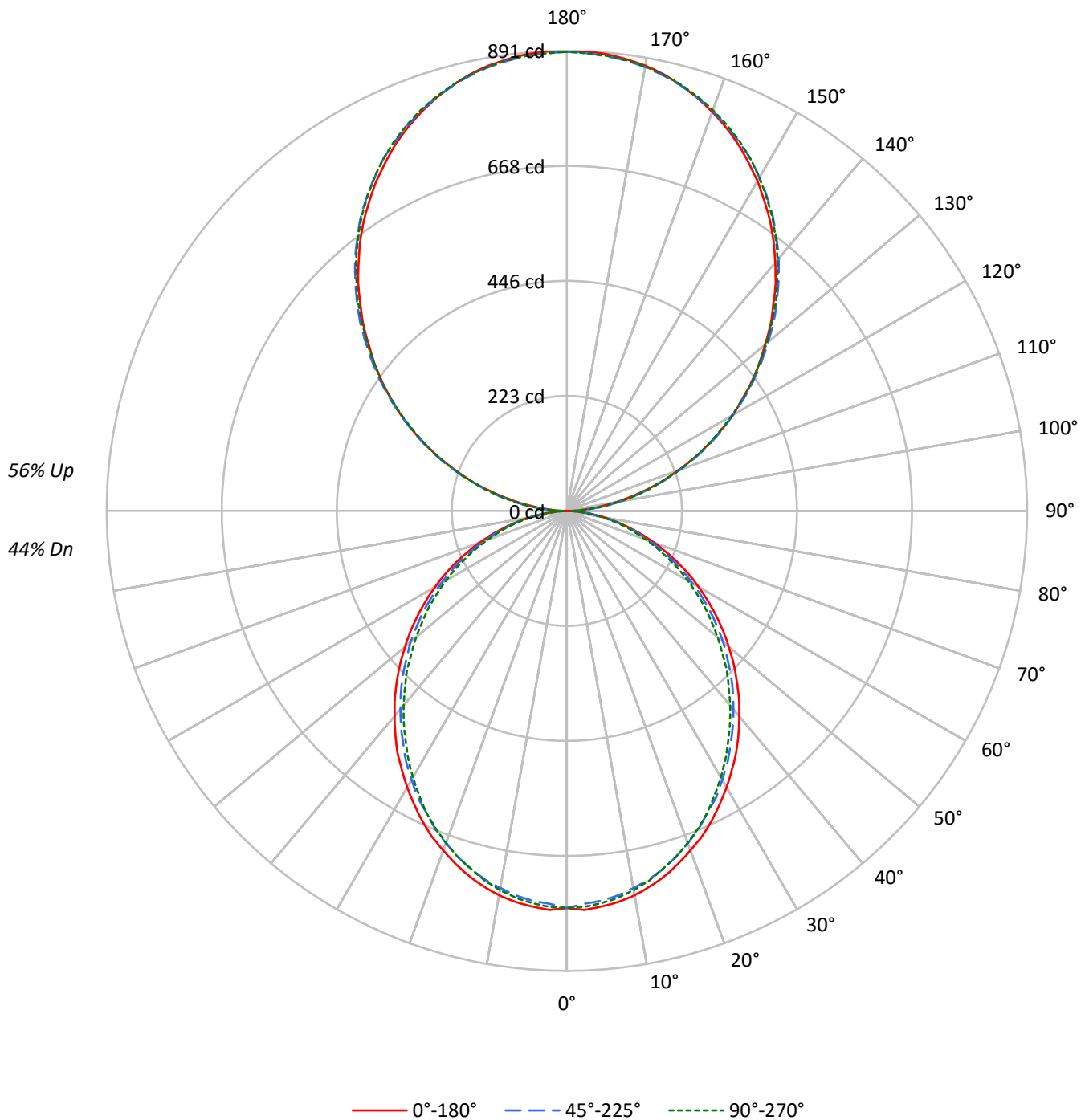
Lumens per Lamp: N/A
Luminaire Lumens: 4446.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1029561

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-F1_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1029561

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-F1_4000K

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	26	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°	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

TEST NUMBER: P1029561

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-F1_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.6
10°-20°	203.7	4.6
20°-30°	299.3	6.7
30°-40°	347.7	7.8
40°-50°	347.2	7.8
50°-60°	302.8	6.8
60°-70°	223.8	5.0
70°-80°	126.6	2.8
80°-90°	35.9	0.8
90°-100°	55.0	1.2
100°-110°	174.9	3.9
110°-120°	299.3	6.7
120°-130°	393.6	8.9
130°-140°	441.8	9.9
140°-150°	433.2	9.7
150°-160°	363.4	8.2
160°-170°	241.0	5.4
170°-180°	84.2	1.9
0°-30°	575.4	12.9
0°-40°	923.1	20.8
0°-60°	1573.1	35.4
0°-90°	1959.5	44.1
90°-120°	529.2	11.9
90°-150°	1797.8	40.4
90°-180°	2486.0	55.9
0°-180°	4446.0	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	10	26	25	26	4
95°	39	46	48	48	46	44
105°	161	164	165	167	167	170
115°	300	305	303	302	300	297
125°	437	444	441	439	438	390
135°	565	573	575	574	572	437
145°	686	691	696	696	694	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	

TEST NUMBER: P1029561

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-F1_4000K

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°	0.8	9.8	26.3	24.8	25.5
92.5°	16.5	22.5	23.3	24.0	24.0
95°	39.0	46.5	48.0	48.0	46.5
97.5°	65.3	72.0	75.1	75.1	75.1
100°	95.3	101.3	103.6	103.6	102.8
102.5°	126.8	131.3	134.3	135.1	134.3
105°	161.4	163.6	165.1	166.6	166.6
107.5°	195.9	198.9	198.9	199.6	195.9
110°	228.9	233.4	233.4	233.4	231.2

TEST NUMBER: P1029561

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-F1_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.9	269.4	268.7	266.4	264.9
115°	300.2	304.7	303.2	302.5	300.2
117.5°	335.5	341.5	337.7	335.5	333.2
120°	370.8	376.8	370.8	370.8	368.5
122.5°	403.0	410.5	406.8	404.5	403.0
125°	436.8	443.6	441.3	439.0	438.3
127.5°	469.8	478.1	475.1	472.1	469.8
130°	500.6	510.3	508.8	507.3	504.3
132.5°	535.1	542.6	543.4	539.6	537.4
135°	565.1	573.4	574.9	574.1	571.9
137.5°	598.2	604.9	606.4	605.7	602.7
140°	627.4	634.2	637.9	637.9	634.9
142.5°	657.4	664.2	666.5	667.2	664.2
145°	686.0	691.2	695.7	696.5	693.5
147.5°	711.5	718.2	721.2	722.7	719.7
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)