

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: P1029557

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029557
REPORT IS A COMBINATION OF REPORTS P986226 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-D_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

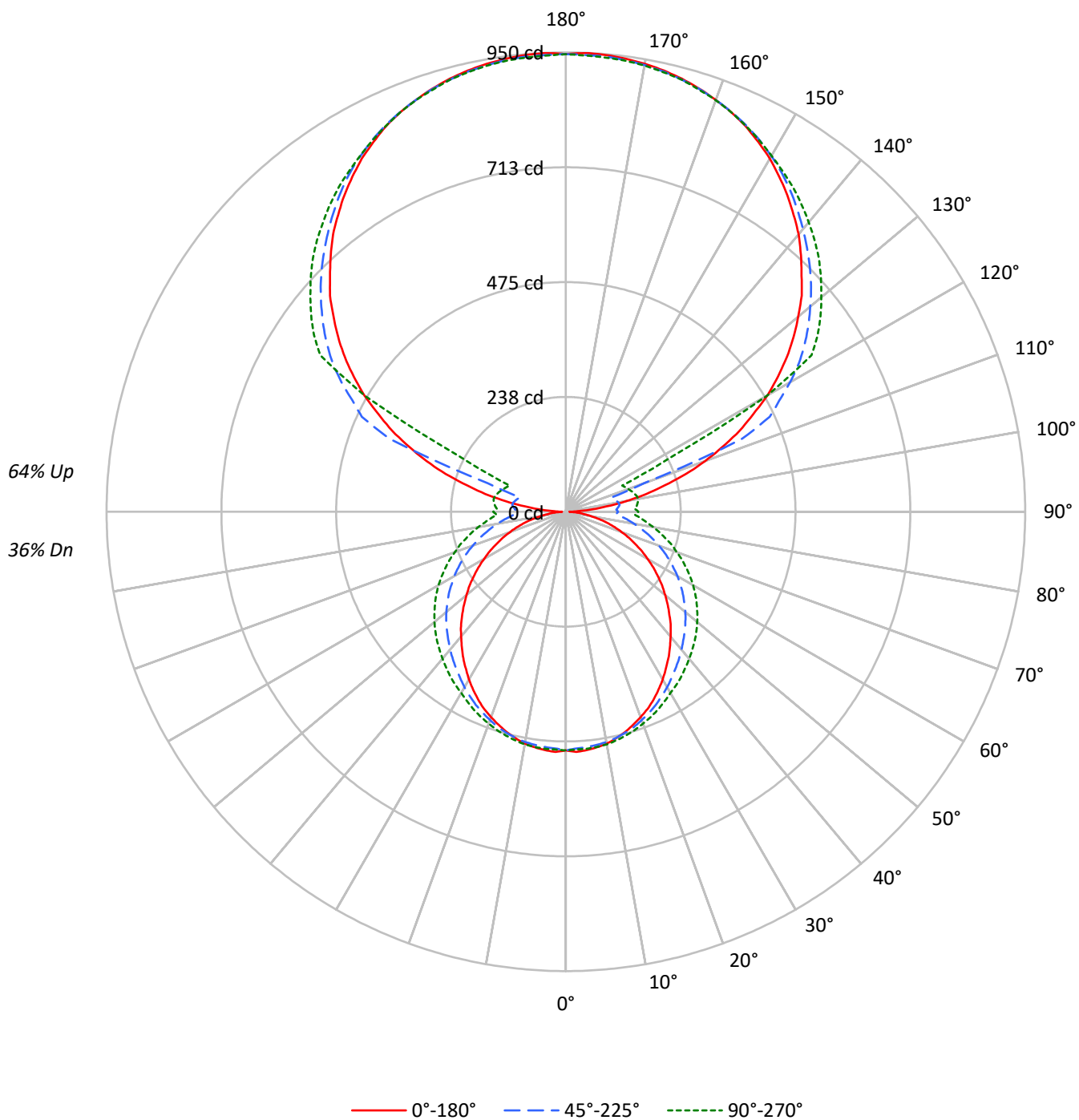
Lumens per Lamp: N/A
Luminaire Lumens: 4658.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1029557

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-D_5000K

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43			36
1	94	89	85	81	84	80	77	74	64	62	60	50	48	47	36	35	34			28
2	85	77	71	65	76	70	64	59	56	52	48	43	40	38	31	30	28			23
3	77	67	60	54	69	61	54	49	49	44	40	38	34	32	28	25	23			19
4	70	59	51	45	63	54	47	41	43	38	34	33	30	27	24	22	20			16
5	64	52	44	38	58	48	40	35	38	33	29	30	26	23	22	19	17			13
6	59	47	39	33	53	43	35	30	34	29	25	27	23	20	20	17	15			12
7	54	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13			10
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12			9
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10			8
10	44	32	24	20	39	29	23	18	24	19	15	19	15	12	14	11	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7812	7812	7812
5°	7847	7478	7437
10°	7795	7220	7114
15°	7684	6952	6784
20°	7545	6669	6470
25°	7408	6401	6186
30°	7216	6127	5904
35°	7023	5863	5698
40°	6819	5635	5491
45°	6622	5428	5312
50°	6414	5238	5135
55°	6193	5035	4955
60°	5926	4824	4767
65°	5645	4580	4548
70°	5327	4319	4315
75°	4923	4060	4092
80°	4279	3789	3864
85°	3630	3534	3666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6622 cd/sqm

TEST NUMBER: P1029557

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-D_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.0
10°-20°	134.2	2.9
20°-30°	203.3	4.4
30°-40°	247.6	5.3
40°-50°	266.4	5.7
50°-60°	258.7	5.6
60°-70°	225.9	4.8
70°-80°	173.9	3.7
80°-90°	118.1	2.5
90°-100°	111.5	2.4
100°-110°	175.0	3.8
110°-120°	347.3	7.5
120°-130°	533.2	11.4
130°-140°	552.6	11.9
140°-150°	506.7	10.9
150°-160°	406.1	8.7
160°-170°	261.7	5.6
170°-180°	90.1	1.9
0°-30°	384.3	8.2
0°-40°	631.8	13.6
0°-60°	1156.9	24.8
0°-90°	1674.7	35.9
90°-120°	633.8	13.6
90°-150°	2226.3	47.8
90°-180°	2984.0	64.0
0°-180°	4658.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	495	493	488	493	492	47
15°	472	474	474	480	479	133
25°	429	434	441	449	451	197
35°	370	382	396	411	416	231
45°	303	323	348	370	377	234
55°	232	258	295	321	330	208
65°	159	194	236	265	275	158
75°	88	128	174	204	214	93
85°	26	70	116	146	156	27
90°	8	57	108	140	150	8
95°	50	61	109	140	147	57
105°	212	253	103	136	146	227
115°	397	416	465	170	128	390
125°	558	567	603	627	636	498
135°	690	700	714	736	740	533
145°	799	798	810	819	819	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	

TEST NUMBER: P1029557

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	493.5	493.5	493.5	493.5	493.5
2.5°	497.1	494.9	489.9	493.5	492.1
5°	494.9	492.8	488.5	492.8	492.1
7.5°	491.3	489.9	486.3	491.3	490.6
10°	487.1	485.6	483.5	489.2	488.5
12.5°	479.9	480.6	479.2	484.9	484.2
15°	472.0	473.5	473.5	479.9	479.2
17.5°	462.0	464.9	467.0	473.5	473.5
20°	452.0	455.6	458.4	466.3	466.3
22.5°	441.3	445.6	449.9	457.7	459.2
25°	429.1	434.1	440.6	449.2	451.3
27.5°	414.8	422.7	429.8	440.6	442.0
30°	400.5	409.8	419.1	430.6	432.7
32.5°	384.8	395.5	407.0	420.5	424.8
35°	369.8	381.9	395.5	411.2	416.3
37.5°	353.3	366.9	384.1	401.2	406.2
40°	336.9	352.6	371.9	390.5	396.9
42.5°	321.1	336.9	359.7	380.5	386.9
45°	303.2	322.6	347.6	369.8	376.9
47.5°	286.1	306.8	335.4	358.3	366.2
50°	268.2	290.4	322.6	346.9	354.7
52.5°	251.0	274.6	309.0	334.0	342.6
55°	232.4	258.2	295.4	321.1	330.4
57.5°	214.6	243.2	280.4	308.3	317.6
60°	195.3	226.0	266.8	294.0	304.0
62.5°	178.1	210.3	251.0	280.4	289.7
65°	158.8	193.8	236.0	265.3	274.6
67.5°	141.6	178.1	221.0	250.3	260.3
70°	123.0	160.2	204.5	235.3	243.9
72.5°	105.9	144.5	189.5	219.6	230.3
75°	88.0	128.0	173.8	204.5	213.8
77.5°	70.8	112.3	158.8	189.5	199.5
80°	53.6	97.3	143.8	173.8	183.8
82.5°	39.3	82.2	129.5	159.5	168.8
85°	25.7	70.1	115.9	145.9	155.9
87.5°	15.7	58.6	104.4	133.7	143.0
90°	7.9	56.8	108.1	140.1	150.1
92.5°	23.5	58.7	104.4	133.7	142.9
95°	50.2	61.2	108.9	139.5	147.4
97.5°	85.1	59.8	112.1	140.7	150.0
100°	126.2	58.9	110.5	142.5	151.8
102.5°	170.7	192.9	106.9	140.2	150.1
105°	211.8	253.0	103.3	135.8	146.4
107.5°	260.4	294.6	99.6	131.5	142.1
110°	306.2	334.9	172.0	126.5	137.1

TEST NUMBER: P1029557

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	350.1	373.8	395.1	122.8	132.8
115°	396.6	416.1	465.4	169.9	128.4
117.5°	436.2	455.7	497.4	421.0	248.6
120°	481.4	494.6	535.5	563.7	479.2
122.5°	519.8	531.5	571.6	595.0	602.2
125°	558.1	567.0	602.9	627.0	635.6
127.5°	593.7	602.6	632.2	656.9	664.0
130°	627.3	637.5	660.1	684.8	689.8
132.5°	661.5	669.7	687.9	710.6	715.6
135°	689.6	700.5	713.9	735.7	740.1
137.5°	719.7	727.9	738.4	758.8	761.8
140°	749.1	753.9	762.9	780.5	781.4
142.5°	773.8	777.9	786.8	800.9	801.0
145°	799.1	798.4	810.1	819.2	819.3
147.5°	821.7	819.7	831.3	835.4	834.9
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)