

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: P1029555

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029555
REPORT IS A COMBINATION OF REPORTS P986224 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_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

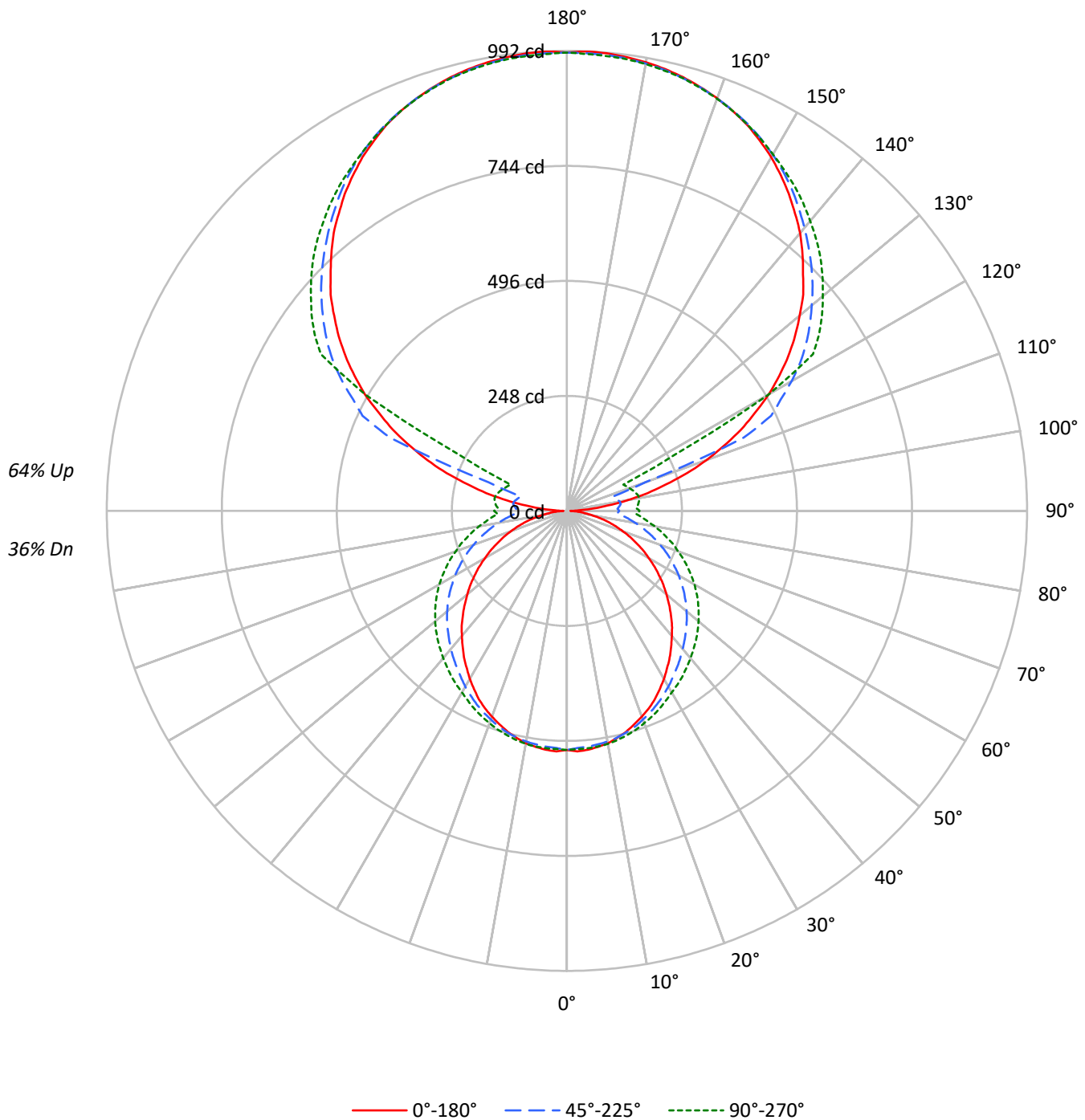
Lumens per Lamp: N/A
Luminaire Lumens: 4866.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1029555

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-D_3500K

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°	8160	8160	8160
5°	8197	7812	7768
10°	8142	7541	7431
15°	8027	7262	7087
20°	7883	6968	6758
25°	7740	6686	6461
30°	7539	6400	6167
35°	7336	6125	5951
40°	7122	5886	5736
45°	6919	5670	5549
50°	6701	5470	5365
55°	6470	5260	5177
60°	6190	5039	4979
65°	5898	4784	4752
70°	5565	4513	4508
75°	5141	4240	4276
80°	4471	3958	4036
85°	3800	3690	3831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6919 cd/sqm

TEST NUMBER: P1029555

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-D_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.0
10°-20°	140.2	2.9
20°-30°	212.4	4.4
30°-40°	258.6	5.3
40°-50°	278.2	5.7
50°-60°	270.2	5.6
60°-70°	236.0	4.8
70°-80°	181.6	3.7
80°-90°	123.4	2.5
90°-100°	116.5	2.4
100°-110°	182.8	3.8
110°-120°	362.6	7.5
120°-130°	556.9	11.4
130°-140°	577.1	11.9
140°-150°	529.1	10.9
150°-160°	424.1	8.7
160°-170°	273.3	5.6
170°-180°	94.1	1.9
0°-30°	401.4	8.2
0°-40°	660.0	13.6
0°-60°	1208.5	24.8
0°-90°	1749.5	36.0
90°-120°	661.9	13.6
90°-150°	2325.0	47.8
90°-180°	3117.0	64.1
0°-180°	4866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	517	515	510	515	514	49
15°	493	495	495	501	501	139
25°	448	454	460	469	471	206
35°	386	399	413	430	435	241
45°	317	337	363	386	394	245
55°	243	270	309	336	345	217
65°	166	202	246	277	287	165
75°	92	134	182	214	223	97
85°	27	73	121	152	163	28
90°	8	59	113	146	157	8
95°	52	64	114	146	154	60
105°	221	264	108	142	153	237
115°	414	434	486	177	134	407
125°	583	592	630	655	664	520
135°	720	732	746	768	773	557
145°	834	834	846	856	856	522
155°	919	912	921	925	920	423
165°	968	964	966	971	966	274
175°	990	985	987	992	985	94
180°	988	988	988	988	988	

TEST NUMBER: P1029555

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.5	515.5	515.5	515.5	515.5
2.5°	519.2	517.0	511.8	515.5	514.0
5°	517.0	514.8	510.3	514.8	514.0
7.5°	513.3	511.8	508.0	513.3	512.5
10°	508.8	507.3	505.0	511.0	510.3
12.5°	501.3	502.1	500.6	506.5	505.8
15°	493.1	494.6	494.6	501.3	500.6
17.5°	482.6	485.6	487.9	494.6	494.6
20°	472.2	475.9	478.9	487.1	487.1
22.5°	461.0	465.5	469.9	478.2	479.6
25°	448.3	453.5	460.2	469.2	471.4
27.5°	433.3	441.5	449.0	460.2	461.7
30°	418.4	428.1	437.8	449.8	452.0
32.5°	401.9	413.2	425.1	439.3	443.8
35°	386.3	399.0	413.2	429.6	434.8
37.5°	369.1	383.3	401.2	419.1	424.4
40°	351.9	368.3	388.5	407.9	414.6
42.5°	335.5	351.9	375.8	397.5	404.2
45°	316.8	336.9	363.1	386.3	393.7
47.5°	298.8	320.5	350.4	374.3	382.5
50°	280.2	303.3	336.9	362.4	370.6
52.5°	262.2	286.9	322.8	348.9	357.9
55°	242.8	269.7	308.6	335.5	345.2
57.5°	224.1	254.0	292.9	322.0	331.7
60°	204.0	236.1	278.7	307.1	317.5
62.5°	186.0	219.7	262.2	292.9	302.6
65°	165.9	202.5	246.5	277.2	286.9
67.5°	147.9	186.0	230.9	261.5	271.9
70°	128.5	167.4	213.7	245.8	254.8
72.5°	110.6	150.9	198.0	229.4	240.6
75°	91.9	133.7	181.5	213.7	223.4
77.5°	74.0	117.3	165.9	198.0	208.4
80°	56.0	101.6	150.2	181.5	192.0
82.5°	41.1	85.9	135.2	166.6	176.3
85°	26.9	73.2	121.0	152.4	162.9
87.5°	16.4	61.3	109.1	139.7	149.4
90°	8.2	59.4	112.9	146.4	156.8
92.5°	24.6	61.3	109.1	139.6	149.3
95°	52.5	64.0	113.8	145.8	154.0
97.5°	88.9	62.4	117.2	146.9	156.6
100°	131.8	61.5	115.5	148.9	158.5
102.5°	178.3	201.4	111.7	146.5	156.8
105°	221.1	264.2	107.9	141.9	152.9
107.5°	271.9	307.7	104.1	137.3	148.4
110°	319.8	349.7	179.6	132.0	143.2

TEST NUMBER: P1029555

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.6	390.3	412.6	128.3	138.6
115°	414.2	434.5	486.0	177.3	134.1
117.5°	455.6	475.9	519.4	439.6	259.7
120°	502.8	516.5	559.3	588.8	500.5
122.5°	542.8	555.1	597.0	621.5	628.9
125°	582.9	592.2	629.7	654.9	663.7
127.5°	620.1	629.3	660.2	686.1	693.5
130°	655.1	665.7	689.3	715.2	720.4
132.5°	690.9	699.4	718.5	742.1	747.3
135°	720.1	731.5	745.5	768.3	772.9
137.5°	751.6	760.1	771.1	792.4	795.5
140°	782.3	787.3	796.7	815.0	816.0
142.5°	808.0	812.4	821.7	836.4	836.5
145°	834.5	833.8	846.0	855.5	855.6
147.5°	858.1	856.0	868.1	872.4	871.8
150°	881.0	876.0	887.4	891.7	888.2
152.5°	900.3	894.6	905.3	909.6	904.6
155°	918.9	912.5	921.1	925.3	919.6
157.5°	933.9	928.2	934.6	939.6	933.9
160°	946.8	942.5	946.8	951.1	946.1
162.5°	958.2	953.9	957.5	962.5	956.1
165°	968.2	964.0	966.1	971.1	966.1
167.5°	976.1	971.8	974.0	979.0	972.5
170°	982.5	978.3	979.7	984.7	978.3
172.5°	986.8	982.5	984.0	989.0	982.5
175°	990.4	985.4	986.8	991.8	984.7
177.5°	991.8	986.8	987.6	992.6	986.1
180°	988.3	988.3	988.3	988.3	988.3

(END OF REPORT)