

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: P1029563

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029563
REPORT IS A COMBINATION OF REPORTS P986237 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_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

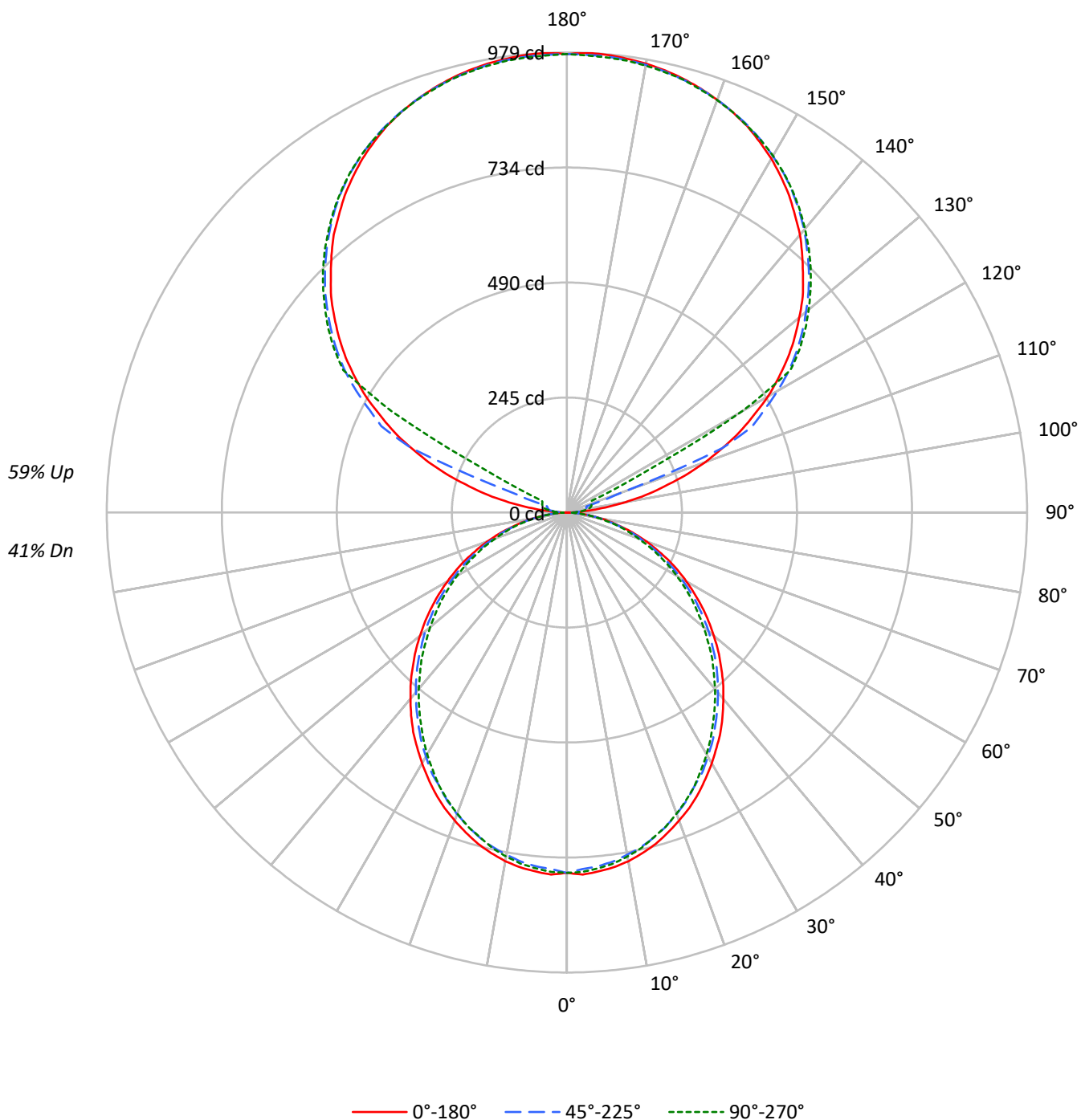
Lumens per Lamp: N/A
Luminaire Lumens: 4813.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1029563

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-F_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1029563

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-F_2700K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12139	12139	12139
5°	12159	11571	11488
10°	12060	11044	10825
15°	11883	10512	10125
20°	11644	9934	9464
25°	11407	9330	8802
30°	11106	8764	8109
35°	10825	8165	7428
40°	10476	7574	6783
45°	10129	6989	6152
50°	9752	6394	5497
55°	9353	5755	4877
60°	8906	5066	4232
65°	8415	4365	3554
70°	7791	3597	2869
75°	6931	2773	2216
80°	5884	1884	1425
85°	4266	878	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10129 cd/sqm

TEST NUMBER: P1029563

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.5
10°-20°	203.1	4.2
20°-30°	298.4	6.2
30°-40°	346.6	7.2
40°-50°	346.2	7.2
50°-60°	301.9	6.3
60°-70°	223.1	4.6
70°-80°	126.3	2.6
80°-90°	35.0	0.7
90°-100°	32.2	0.7
100°-110°	119.9	2.5
110°-120°	318.1	6.6
120°-130°	527.5	11.0
130°-140°	560.4	11.6
140°-150°	520.8	10.8
150°-160°	418.7	8.7
160°-170°	269.8	5.6
170°-180°	92.9	1.9
0°-30°	573.7	11.9
0°-40°	920.3	19.1
0°-60°	1568.3	32.6
0°-90°	1952.7	40.6
90°-120°	470.2	9.8
90°-150°	2078.9	43.2
90°-180°	2860.0	59.4
0°-180°	4813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	764	756	762	760	73
15°	730	726	716	719	715	206
25°	661	655	642	644	642	304
35°	570	563	551	546	543	356
45°	464	459	448	440	436	358
55°	351	347	338	329	325	314
65°	237	232	225	218	215	234
75°	124	122	119	114	116	132
85°	30	30	29	26	26	34
90°	1	8	14	18	19	4
95°	46	23	28	31	30	54
105°	215	236	43	51	54	229
115°	406	418	436	109	58	400
125°	574	583	596	602	604	512
135°	710	722	728	735	734	549
145°	824	823	835	840	837	515
155°	907	901	909	914	908	418
165°	956	952	954	959	954	270
175°	978	973	974	979	972	93
180°	976	976	976	976	976	

TEST NUMBER: P1029563

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.9	766.9	766.9	766.9	766.9
2.5°	771.3	767.6	759.5	766.9	765.4
5°	766.9	763.9	755.8	761.7	760.2
7.5°	761.7	757.3	749.2	755.1	753.6
10°	753.6	748.4	739.6	745.5	743.3
12.5°	742.5	738.1	729.2	732.9	731.5
15°	730.0	725.6	716.0	718.9	715.2
17.5°	714.5	710.1	700.5	704.2	700.5
20°	697.5	693.1	682.8	685.0	682.1
22.5°	680.6	673.9	664.4	664.4	662.9
25°	660.7	654.8	642.2	643.7	642.2
27.5°	638.6	633.4	623.8	621.6	617.9
30°	616.4	610.5	599.5	597.3	594.3
32.5°	592.8	588.4	576.6	572.2	569.2
35°	570.0	562.6	550.8	546.4	542.7
37.5°	544.2	537.5	525.7	520.6	516.9
40°	517.6	511.7	499.9	493.3	490.3
42.5°	491.8	485.9	474.1	466.7	462.3
45°	463.8	458.6	447.6	439.5	436.5
47.5°	436.5	431.4	419.6	411.4	407.0
50°	407.8	404.1	393.8	383.4	379.7
52.5°	379.7	374.6	365.0	356.9	351.7
55°	351.0	346.6	337.7	328.9	325.2
57.5°	322.2	318.5	309.0	300.1	297.2
60°	293.5	290.5	280.2	272.1	269.9
62.5°	265.4	260.3	252.9	245.5	242.6
65°	236.7	232.3	224.9	218.3	214.6
67.5°	207.2	203.5	196.9	191.7	188.8
70°	179.9	177.0	170.3	165.2	162.2
72.5°	151.9	148.9	145.3	140.1	137.9
75°	123.9	122.4	118.7	114.3	115.8
77.5°	98.8	95.9	94.4	92.2	90.0
80°	73.7	73.0	71.5	69.3	67.8
82.5°	50.1	50.1	49.4	46.5	46.5
85°	30.2	29.5	28.8	26.5	25.8
87.5°	13.3	11.8	10.3	8.1	7.4
90°	0.7	8.5	14.1	17.6	19.1
92.5°	17.6	14.8	16.9	18.4	19.1
95°	45.9	22.6	27.5	31.1	30.4
97.5°	82.6	24.7	36.0	38.1	38.8
100°	125.0	28.2	40.2	45.9	47.3
102.5°	171.6	170.1	41.7	49.4	51.5
105°	214.6	235.8	43.1	50.8	53.7
107.5°	264.7	282.4	44.5	52.2	55.1
110°	312.7	327.6	123.5	52.9	55.8

TEST NUMBER: P1029563

CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	370.6	358.6	54.4	56.5
115°	405.9	417.9	435.6	108.7	57.9
117.5°	447.6	461.7	473.7	372.8	187.8
120°	494.2	504.8	517.5	526.0	430.6
122.5°	533.7	545.0	559.1	563.4	564.1
125°	574.0	583.1	596.5	601.5	603.6
127.5°	610.7	620.6	631.1	638.2	638.9
130°	645.3	656.6	664.3	672.1	671.4
132.5°	680.6	689.7	697.5	703.9	703.2
135°	710.2	721.5	727.9	734.9	733.5
137.5°	741.3	749.7	756.8	763.9	761.7
140°	771.6	777.3	785.0	791.4	787.9
142.5°	797.0	802.0	811.2	816.8	813.3
145°	823.9	823.2	835.2	840.1	836.6
147.5°	847.2	845.1	857.1	860.6	857.8
150°	869.8	864.8	876.1	880.4	876.8
152.5°	888.8	883.2	893.8	898.0	893.1
155°	907.2	900.8	909.3	913.5	907.9
157.5°	922.0	916.4	922.7	927.7	922.0
160°	934.7	930.5	934.7	938.9	934.0
162.5°	946.0	941.8	945.3	950.2	943.9
165°	955.9	951.7	953.8	958.7	953.8
167.5°	963.7	959.4	961.5	966.5	960.1
170°	970.0	965.8	967.2	972.1	965.8
172.5°	974.2	970.0	971.4	976.4	970.0
175°	977.8	972.8	974.2	979.2	972.1
177.5°	979.2	974.2	975.0	979.9	973.5
180°	975.7	975.7	975.7	975.7	975.7

(END OF REPORT)