

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: P1029475

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029475
REPORT IS A COMBINATION OF REPORTS P985969 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_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

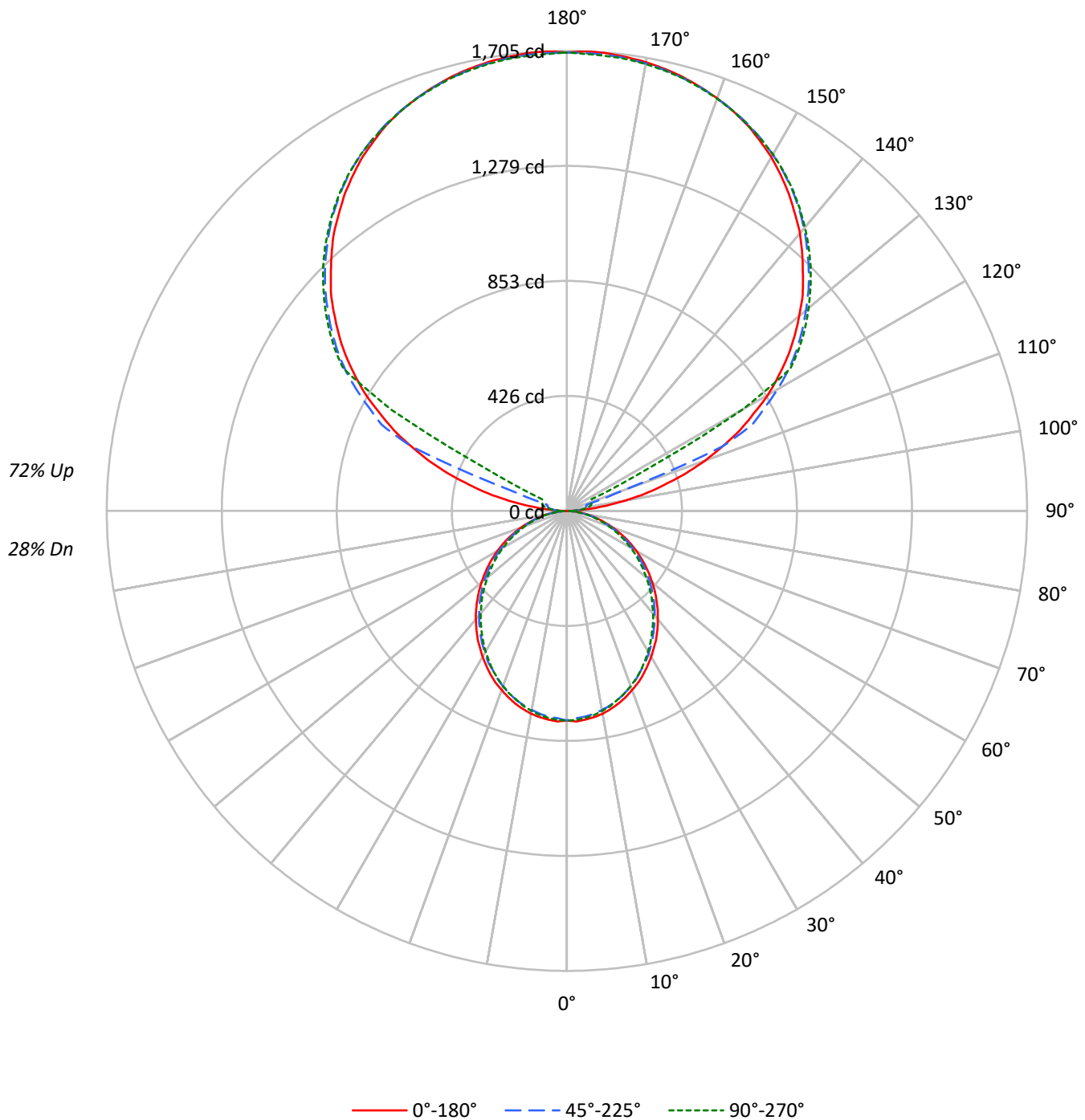
Lumens per Lamp: N/A
Luminaire Lumens: 6959.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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: P1029475

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1029475

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3500K

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36			28
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31			24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26			20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22			17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	27	22	20	19			15
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16			13
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	14			11
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	14	13			10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11			9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10			8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12295	12295	12295
5°	12315	11719	11636
10°	12213	11184	10963
15°	12035	10647	10255
20°	11794	10061	9585
25°	11552	9451	8916
30°	11249	8876	8212
35°	10964	8270	7524
40°	10611	7671	6870
45°	10258	7078	6231
50°	9876	6475	5568
55°	9473	5829	4939
60°	9018	5131	4286
65°	8521	4421	3599
70°	7891	3643	2907
75°	7021	2808	2243
80°	5964	1908	1444
85°	4322	887	614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10258 cd/sqm

TEST NUMBER: P1029475

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	1.1
10°-20°	205.7	3.0
20°-30°	302.3	4.3
30°-40°	351.0	5.0
40°-50°	350.6	5.0
50°-60°	305.7	4.4
60°-70°	226.0	3.2
70°-80°	127.9	1.8
80°-90°	36.7	0.5
90°-100°	56.0	0.8
100°-110°	208.8	3.0
110°-120°	553.8	8.0
120°-130°	918.5	13.2
130°-140°	975.7	14.0
140°-150°	906.8	13.0
150°-160°	729.0	10.5
160°-170°	469.8	6.8
170°-180°	161.7	2.3
0°-30°	581.0	8.3
0°-40°	932.1	13.4
0°-60°	1588.4	22.8
0°-90°	1979.0	28.4
90°-120°	818.6	11.8
90°-150°	3619.6	52.0
90°-180°	4980.0	71.6
0°-180°	6959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	777	774	766	772	770	74
15°	739	735	725	728	724	208
25°	669	663	650	652	650	308
35°	577	570	558	553	550	360
45°	470	464	453	445	442	363
55°	356	351	342	333	329	318
65°	240	235	228	221	217	237
75°	126	124	120	116	117	134
85°	31	30	29	27	26	34
90°	1	15	25	31	33	6
95°	80	39	48	54	53	95
105°	374	410	75	88	93	399
115°	707	728	758	189	101	696
125°	999	1015	1039	1047	1051	891
135°	1236	1256	1267	1280	1277	955
145°	1434	1433	1454	1463	1457	897
155°	1580	1568	1583	1590	1581	728
165°	1664	1657	1661	1669	1661	470
175°	1702	1694	1696	1705	1693	162
180°	1699	1699	1699	1699	1699	

TEST NUMBER: P1029475

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.7	776.7	776.7	776.7	776.7
2.5°	781.2	777.4	769.2	776.7	775.2
5°	776.7	773.7	765.5	771.5	770.0
7.5°	771.5	767.0	758.8	764.7	763.2
10°	763.2	758.0	749.0	755.0	752.8
12.5°	752.0	747.6	738.6	742.3	740.8
15°	739.3	734.9	725.2	728.1	724.4
17.5°	723.7	719.2	709.5	713.2	709.5
20°	706.5	702.0	691.5	693.8	690.8
22.5°	689.3	682.6	672.9	672.9	671.4
25°	669.1	663.2	650.5	652.0	650.5
27.5°	646.7	641.5	631.8	629.6	625.8
30°	624.3	618.4	607.2	604.9	601.9
32.5°	600.4	596.0	584.0	579.5	576.5
35°	577.3	569.8	557.9	553.4	549.7
37.5°	551.1	544.4	532.5	527.2	523.5
40°	524.3	518.3	506.3	499.6	496.6
42.5°	498.1	492.1	480.2	472.7	468.2
45°	469.7	464.5	453.3	445.1	442.1
47.5°	442.1	436.9	424.9	416.7	412.2
50°	413.0	409.3	398.8	388.3	384.6
52.5°	384.6	379.4	369.7	361.5	356.2
55°	355.5	351.0	342.0	333.1	329.3
57.5°	326.4	322.6	312.9	304.0	301.0
60°	297.2	294.2	283.8	275.6	273.3
62.5°	268.9	263.6	256.2	248.7	245.7
65°	239.7	235.2	227.8	221.1	217.3
67.5°	209.9	206.1	199.4	194.2	191.2
70°	182.2	179.2	172.5	167.3	164.3
72.5°	153.8	150.9	147.1	141.9	139.7
75°	125.5	124.0	120.2	115.8	117.2
77.5°	100.1	97.1	95.6	93.4	91.1
80°	74.7	73.9	72.4	70.2	68.7
82.5°	50.8	50.8	50.0	47.0	47.0
85°	30.6	29.9	29.1	26.9	26.1
87.5°	13.4	11.9	10.5	8.2	7.5
90°	1.2	14.7	24.6	30.7	33.2
92.5°	30.7	25.8	29.5	32.0	33.2
95°	79.9	39.3	47.9	54.1	52.9
97.5°	143.8	43.0	62.7	66.4	67.6
100°	217.6	49.2	70.1	79.9	82.4
102.5°	298.7	296.2	72.5	86.0	89.7
105°	373.7	410.5	75.0	88.5	93.4
107.5°	460.9	491.7	77.4	91.0	95.9
110°	544.5	570.3	215.1	92.2	97.1

TEST NUMBER: P1029475

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	623.2	645.3	624.4	94.6	98.3
115°	706.8	727.7	758.4	189.3	100.8
117.5°	779.3	803.9	824.8	649.0	327.0
120°	860.4	878.9	901.0	915.7	749.8
122.5°	929.2	948.9	973.5	980.9	982.1
125°	999.3	1015.3	1038.6	1047.2	1050.9
127.5°	1063.2	1080.4	1098.9	1111.2	1112.4
130°	1123.5	1143.1	1156.6	1170.2	1168.9
132.5°	1184.9	1200.9	1214.4	1225.5	1224.2
135°	1236.5	1256.2	1267.3	1279.6	1277.1
137.5°	1290.6	1305.4	1317.7	1330.0	1326.3
140°	1343.5	1353.3	1366.8	1377.9	1371.7
142.5°	1387.7	1396.3	1412.3	1422.1	1416.0
145°	1434.4	1433.2	1454.1	1462.7	1456.6
147.5°	1475.0	1471.3	1492.2	1498.4	1493.4
150°	1514.3	1505.7	1525.4	1532.8	1526.6
152.5°	1547.5	1537.7	1556.1	1563.5	1554.9
155°	1579.5	1568.4	1583.2	1590.5	1580.7
157.5°	1605.3	1595.5	1606.5	1615.1	1605.3
160°	1627.4	1620.0	1627.4	1634.8	1626.2
162.5°	1647.1	1639.7	1645.9	1654.5	1643.4
165°	1664.3	1656.9	1660.6	1669.2	1660.6
167.5°	1677.8	1670.4	1674.1	1682.7	1671.7
170°	1688.9	1681.5	1684.0	1692.6	1681.5
172.5°	1696.2	1688.9	1691.3	1699.9	1688.9
175°	1702.4	1693.8	1696.2	1704.9	1692.6
177.5°	1704.9	1696.2	1697.5	1706.1	1695.0
180°	1698.7	1698.7	1698.7	1698.7	1698.7

(END OF REPORT)