

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: P1029474

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029474
REPORT IS A COMBINATION OF REPORTS P985968 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_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

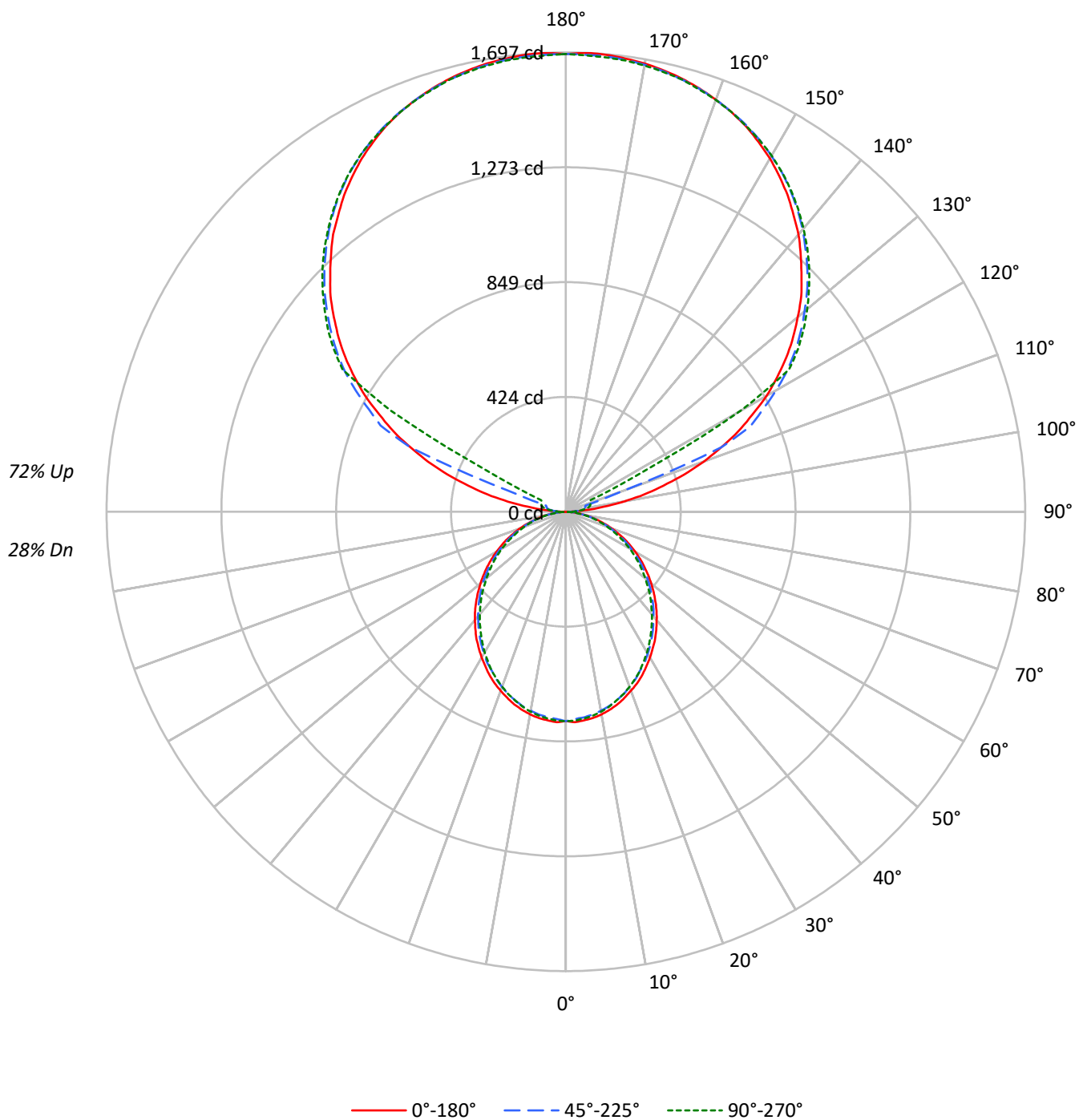
Lumens per Lamp: N/A
Luminaire Lumens: 6929.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1029474

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1029474

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12244	12244	12244
5°	12264	11672	11588
10°	12164	11139	10918
15°	11986	10603	10214
20°	11745	10020	9546
25°	11505	9411	8879
30°	11204	8840	8180
35°	10918	8236	7492
40°	10567	7641	6843
45°	10217	7050	6206
50°	9836	6449	5545
55°	9433	5807	4919
60°	8982	5109	4268
65°	8489	4404	3584
70°	7860	3628	2894
75°	6993	2796	2236
80°	5940	1900	1438
85°	4308	884	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10217 cd/sqm

TEST NUMBER: P1029474

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.1
10°-20°	204.8	3.0
20°-30°	301.0	4.3
30°-40°	349.6	5.0
40°-50°	349.2	5.0
50°-60°	304.5	4.4
60°-70°	225.1	3.2
70°-80°	127.3	1.8
80°-90°	36.6	0.5
90°-100°	55.8	0.8
100°-110°	207.9	3.0
110°-120°	551.4	8.0
120°-130°	914.4	13.2
130°-140°	971.3	14.0
140°-150°	902.8	13.0
150°-160°	725.8	10.5
160°-170°	467.7	6.7
170°-180°	161.0	2.3
0°-30°	578.7	8.4
0°-40°	928.3	13.4
0°-60°	1582.0	22.8
0°-90°	1971.0	28.4
90°-120°	815.0	11.8
90°-150°	3603.6	52.0
90°-180°	4958.0	71.6
0°-180°	6929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	774	771	762	768	767	73
15°	736	732	722	725	722	207
25°	666	660	648	649	648	307
35°	575	568	556	551	547	359
45°	468	463	452	443	440	361
55°	354	350	341	332	328	317
65°	239	234	227	220	216	236
75°	125	124	120	115	117	133
85°	30	30	29	27	26	34
90°	1	15	24	31	33	6
95°	80	39	48	54	53	94
105°	372	409	75	88	93	397
115°	704	724	755	188	100	693
125°	995	1011	1034	1043	1046	887
135°	1231	1251	1262	1274	1272	951
145°	1428	1427	1448	1456	1450	893
155°	1572	1562	1576	1584	1574	725
165°	1657	1650	1653	1662	1653	468
175°	1695	1686	1689	1697	1685	161
180°	1691	1691	1691	1691	1691	

TEST NUMBER: P1029474

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.5	773.5	773.5	773.5	773.5
2.5°	778.0	774.3	766.1	773.5	772.0
5°	773.5	770.6	762.4	768.3	766.8
7.5°	768.3	763.9	755.7	761.6	760.1
10°	760.1	754.9	746.0	752.0	749.7
12.5°	749.0	744.5	735.6	739.3	737.8
15°	736.3	731.9	722.2	725.2	721.5
17.5°	720.7	716.3	706.6	710.3	706.6
20°	703.6	699.2	688.7	691.0	688.0
22.5°	686.5	679.8	670.2	670.2	668.7
25°	666.4	660.5	647.8	649.3	647.8
27.5°	644.1	638.9	629.2	627.0	623.3
30°	621.8	615.9	604.7	602.5	599.5
32.5°	598.0	593.5	581.6	577.2	574.2
35°	574.9	567.5	555.6	551.1	547.4
37.5°	548.9	542.2	530.3	525.1	521.4
40°	522.1	516.2	504.3	497.6	494.6
42.5°	496.1	490.2	478.3	470.8	466.4
45°	467.8	462.6	451.5	443.3	440.3
47.5°	440.3	435.1	423.2	415.0	410.6
50°	411.3	407.6	397.2	386.8	383.0
52.5°	383.0	377.8	368.2	360.0	354.8
55°	354.0	349.6	340.7	331.7	328.0
57.5°	325.0	321.3	311.6	302.7	299.7
60°	296.0	293.1	282.6	274.5	272.2
62.5°	267.8	262.6	255.1	247.7	244.7
65°	238.8	234.3	226.9	220.2	216.4
67.5°	209.0	205.3	198.6	193.4	190.4
70°	181.5	178.5	171.8	166.6	163.6
72.5°	153.2	150.2	146.5	141.3	139.1
75°	125.0	123.5	119.7	115.3	116.8
77.5°	99.7	96.7	95.2	93.0	90.7
80°	74.4	73.6	72.1	69.9	68.4
82.5°	50.6	50.6	49.8	46.9	46.9
85°	30.5	29.8	29.0	26.8	26.0
87.5°	13.4	11.9	10.4	8.2	7.4
90°	1.2	14.7	24.5	30.6	33.0
92.5°	30.6	25.7	29.4	31.8	33.0
95°	79.5	39.2	47.7	53.8	52.6
97.5°	143.2	42.8	62.4	66.1	67.3
100°	216.6	48.9	69.8	79.5	82.0
102.5°	297.4	294.9	72.2	85.7	89.3
105°	372.0	408.7	74.6	88.1	93.0
107.5°	458.9	489.5	77.1	90.6	95.5
110°	542.1	567.8	214.2	91.8	96.7

TEST NUMBER: P1029474

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	620.4	642.5	621.7	94.2	97.9
115°	703.6	724.5	755.0	188.5	100.3
117.5°	775.9	800.3	821.1	646.1	325.5
120°	856.6	875.0	897.0	911.7	746.5
122.5°	925.1	944.7	969.2	976.5	977.8
125°	994.9	1010.8	1034.1	1042.6	1046.3
127.5°	1058.5	1075.7	1094.0	1106.3	1107.5
130°	1118.5	1138.1	1151.5	1165.0	1163.8
132.5°	1179.7	1195.6	1209.1	1220.1	1218.8
135°	1231.1	1250.7	1261.7	1273.9	1271.5
137.5°	1284.9	1299.6	1311.8	1324.1	1320.4
140°	1337.5	1347.3	1360.8	1371.8	1365.7
142.5°	1381.6	1390.2	1406.1	1415.9	1409.7
145°	1428.1	1426.9	1447.7	1456.2	1450.1
147.5°	1468.5	1464.8	1485.6	1491.7	1486.8
150°	1507.6	1499.1	1518.7	1526.0	1519.9
152.5°	1540.7	1530.9	1549.3	1556.6	1548.0
155°	1572.5	1561.5	1576.2	1583.5	1573.7
157.5°	1598.2	1588.4	1599.4	1608.0	1598.2
160°	1620.2	1612.9	1620.2	1627.6	1619.0
162.5°	1639.8	1632.5	1638.6	1647.2	1636.1
165°	1656.9	1649.6	1653.3	1661.8	1653.3
167.5°	1670.4	1663.1	1666.7	1675.3	1664.3
170°	1681.4	1674.1	1676.5	1685.1	1674.1
172.5°	1688.8	1681.4	1683.9	1692.4	1681.4
175°	1694.9	1686.3	1688.8	1697.3	1685.1
177.5°	1697.3	1688.8	1690.0	1698.5	1687.5
180°	1691.2	1691.2	1691.2	1691.2	1691.2

(END OF REPORT)