

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: P1029317

Luminaire Tested: S122DIW-B290D1240UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029317
REPORT IS A COMBINATION OF REPORTS P985503 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D1240UB2750-4F0-XX-W2A-D_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

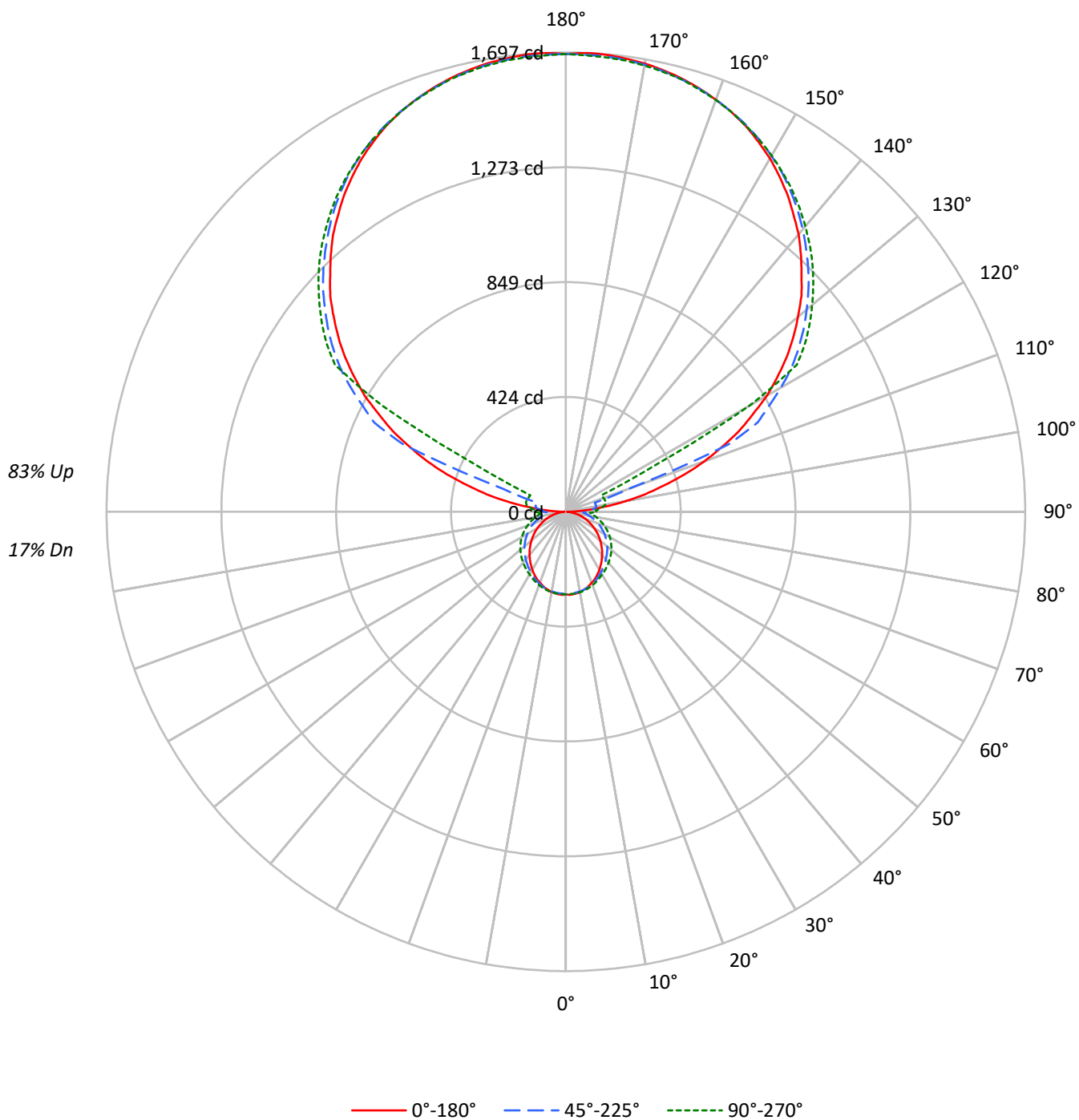
Lumens per Lamp: N/A
Luminaire Lumens: 6125.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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

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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
RCR																	
0	99	99	99	99	87	87	87	87	65	65	65	45	45	45	26	26	26
1	90	86	82	78	79	75	72	69	56	54	52	38	37	36	22	21	21
2	82	74	68	63	71	65	60	56	49	45	43	33	31	29	19	18	17
3	74	65	58	52	65	57	51	47	43	39	35	29	27	25	17	15	14
4	68	57	50	44	59	51	44	39	38	33	30	26	23	21	15	13	12
5	62	51	43	37	54	45	38	33	33	29	25	23	20	18	13	12	10
6	57	45	37	32	50	40	33	29	30	25	22	21	18	15	12	10	9
7	52	41	33	28	46	36	29	25	27	22	19	19	16	13	11	9	8
8	48	37	29	24	42	32	26	22	24	20	17	17	14	12	10	8	7
9	45	33	26	21	39	29	23	19	22	18	15	15	13	10	9	7	6
10	42	30	23	19	37	27	21	17	20	16	13	14	11	9	8	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4830	4830	4830
5°	4850	4623	4597
10°	4818	4463	4398
15°	4750	4297	4193
20°	4664	4123	4000
25°	4580	3956	3824
30°	4461	3788	3650
35°	4341	3624	3522
40°	4214	3483	3395
45°	4095	3356	3284
50°	3965	3237	3175
55°	3829	3112	3064
60°	3663	2981	2947
65°	3487	2832	2812
70°	3291	2670	2668
75°	3043	2509	2530
80°	2651	2343	2388
85°	2246	2183	2267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.5
10°-20°	82.9	1.4
20°-30°	125.7	2.1
30°-40°	153.0	2.5
40°-50°	164.7	2.7
50°-60°	159.9	2.6
60°-70°	139.6	2.3
70°-80°	107.5	1.8
80°-90°	75.0	1.2
90°-100°	105.4	1.7
100°-110°	244.1	4.0
110°-120°	575.3	9.4
120°-130°	927.8	15.1
130°-140°	976.9	16.0
140°-150°	903.7	14.8
150°-160°	725.8	11.8
160°-170°	467.7	7.6
170°-180°	161.0	2.6
0°-30°	237.5	3.9
0°-40°	390.6	6.4
0°-60°	715.1	11.7
0°-90°	1037.2	16.9
90°-120°	924.9	15.1
90°-150°	3733.3	61.0
90°-180°	5088.0	83.1
0°-180°	6125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	306	305	302	305	304	29
15°	292	293	293	297	296	82
25°	265	268	272	278	279	122
35°	229	236	244	254	257	143
45°	188	199	215	229	233	145
55°	144	160	183	198	204	129
65°	98	120	146	164	170	98
75°	54	79	107	126	132	58
85°	16	43	72	90	96	17
90°	6	45	83	107	114	8
95°	83	64	98	121	126	97
105°	374	424	113	142	151	400
115°	705	731	782	228	145	694
125°	996	1012	1049	1070	1077	888
135°	1232	1251	1267	1288	1289	951
145°	1428	1427	1448	1459	1455	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.1	305.1	305.1	305.1	305.1
2.5°	307.3	305.9	302.8	305.1	304.2
5°	305.9	304.6	302.0	304.6	304.2
7.5°	303.7	302.8	300.6	303.7	303.3
10°	301.1	300.2	298.9	302.4	302.0
12.5°	296.7	297.1	296.2	299.8	299.3
15°	291.8	292.7	292.7	296.7	296.2
17.5°	285.6	287.4	288.7	292.7	292.7
20°	279.4	281.6	283.4	288.3	288.3
22.5°	272.8	275.4	278.1	283.0	283.8
25°	265.3	268.4	272.3	277.6	279.0
27.5°	256.4	261.3	265.7	272.3	273.2
30°	247.6	253.3	259.1	266.2	267.5
32.5°	237.9	244.5	251.6	260.0	262.6
35°	228.6	236.1	244.5	254.2	257.3
37.5°	218.4	226.8	237.4	248.0	251.1
40°	208.2	218.0	229.9	241.4	245.4
42.5°	198.5	208.2	222.4	235.2	239.2
45°	187.5	199.4	214.9	228.6	233.0
47.5°	176.8	189.7	207.4	221.5	226.4
50°	165.8	179.5	199.4	214.4	219.3
52.5°	155.2	169.8	191.0	206.5	211.8
55°	143.7	159.6	182.6	198.5	204.3
57.5°	132.6	150.3	173.3	190.6	196.3
60°	120.7	139.7	164.9	181.7	187.9
62.5°	110.1	130.0	155.2	173.3	179.1
65°	98.1	119.8	145.9	164.0	169.8
67.5°	87.5	110.1	136.6	154.7	160.9
70°	76.0	99.0	126.4	145.5	150.8
72.5°	65.4	89.3	117.2	135.7	142.4
75°	54.4	79.1	107.4	126.4	132.2
77.5°	43.8	69.4	98.1	117.2	123.4
80°	33.2	60.1	88.9	107.4	113.6
82.5°	24.3	50.8	80.0	98.6	104.3
85°	15.9	43.3	71.6	90.2	96.4
87.5°	9.7	36.3	64.5	82.7	88.4
90°	5.6	44.8	82.9	106.6	114.3
92.5°	34.6	53.1	83.8	103.4	109.9
95°	83.0	63.5	98.5	121.4	125.5
97.5°	146.3	64.9	110.1	130.2	136.7
100°	219.7	68.4	114.0	140.1	147.4
102.5°	300.1	312.1	113.3	142.7	151.2
105°	374.2	423.7	112.6	141.6	151.4
107.5°	461.1	502.3	112.0	140.6	150.3
110°	543.9	578.4	246.5	138.2	148.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	622.2	651.3	650.9	137.5	146.1
115°	705.4	731.1	781.5	228.3	145.0
117.5°	777.2	805.2	844.5	682.8	366.6
120°	857.9	878.1	917.8	944.9	784.5
122.5°	926.4	946.5	987.3	1006.6	1011.8
125°	995.8	1011.7	1049.1	1069.6	1077.2
127.5°	1059.4	1076.1	1106.4	1129.7	1134.9
130°	1119.4	1138.5	1161.2	1185.3	1187.7
132.5°	1180.6	1196.0	1216.2	1237.3	1239.6
135°	1231.5	1251.1	1266.6	1288.0	1289.2
137.5°	1285.3	1300.0	1314.5	1335.2	1334.5
140°	1337.9	1347.3	1361.7	1379.8	1376.3
142.5°	1382.0	1390.2	1406.1	1421.2	1417.2
145°	1428.1	1426.9	1447.7	1458.9	1455.0
147.5°	1468.5	1464.8	1485.6	1492.1	1488.6
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)