

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: P1029327

Luminaire Tested: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029327
REPORT IS A COMBINATION OF REPORTS P985518 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-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

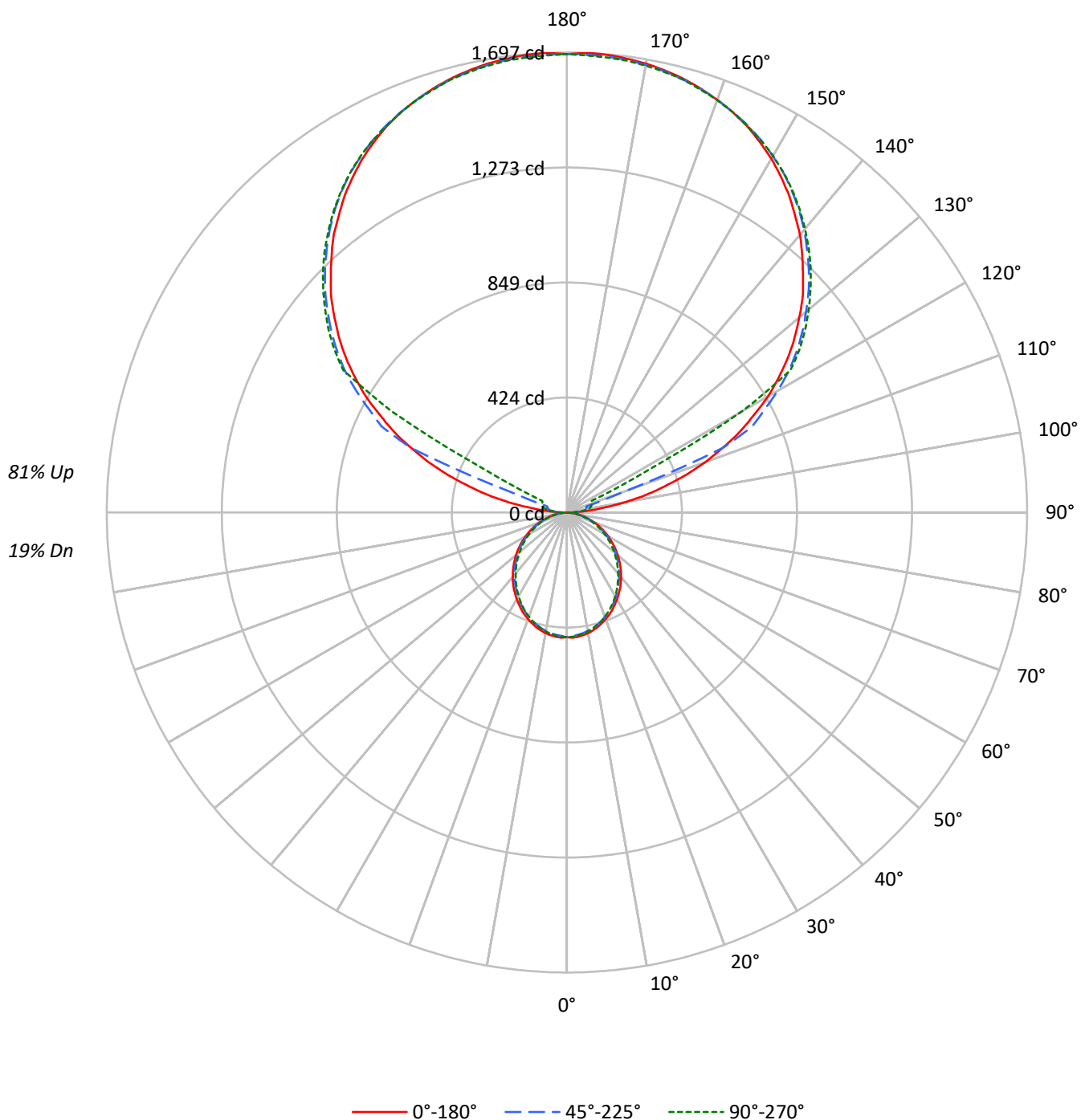
Lumens per Lamp: N/A
Luminaire Lumens: 6131.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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

TEST NUMBER: P1029327

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_3000K

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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19		
1	91	87	83	80	80	77	74	71	58	56	54	40	39	38	24	24	23	16		
2	83	76	70	65	73	67	62	58	51	47	45	35	34	32	22	21	20	13		
3	75	66	60	54	66	59	53	48	45	41	37	31	29	27	19	18	17	11		
4	69	59	51	45	60	52	46	41	39	35	32	28	25	23	17	16	14	10		
5	63	52	44	39	55	46	40	35	35	31	27	25	22	20	15	14	12	9		
6	58	46	39	33	51	41	35	30	32	27	24	22	19	17	14	12	11	7		
7	53	42	34	29	47	37	31	26	28	24	21	20	17	15	13	11	10	7		
8	49	38	30	25	43	34	27	23	26	21	18	18	15	13	12	10	9	6		
9	46	34	27	22	40	31	24	20	23	19	16	17	14	12	11	9	8	5		
10	43	31	24	20	38	28	22	18	21	17	14	15	13	11	10	8	7	5		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7280	7280	7280
5°	7292	6938	6890
10°	7232	6622	6491
15°	7127	6304	6072
20°	6983	5958	5675
25°	6840	5595	5278
30°	6661	5255	4863
35°	6491	4896	4455
40°	6282	4542	4069
45°	6074	4191	3690
50°	5847	3833	3296
55°	5609	3451	2925
60°	5341	3037	2537
65°	5044	2618	2132
70°	4673	2156	1721
75°	4156	1663	1328
80°	3529	1131	856
85°	2557	524	364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6074 cd/sqm

TEST NUMBER: P1029327

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	0.7
10°-20°	121.8	2.0
20°-30°	179.0	2.9
30°-40°	207.9	3.4
40°-50°	207.6	3.4
50°-60°	181.0	3.0
60°-70°	133.8	2.2
70°-80°	75.7	1.2
80°-90°	23.0	0.4
90°-100°	55.8	0.9
100°-110°	207.9	3.4
110°-120°	551.4	9.0
120°-130°	914.4	14.9
130°-140°	971.3	15.8
140°-150°	902.8	14.7
150°-160°	725.8	11.8
160°-170°	467.7	7.6
170°-180°	161.0	2.6
0°-30°	344.0	5.6
0°-40°	551.9	9.0
0°-60°	940.5	15.3
0°-90°	1173.0	19.1
90°-120°	815.0	13.3
90°-150°	3603.6	58.8
90°-180°	4958.0	80.9
0°-180°	6131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	460	458	453	457	456	44
15°	438	435	429	431	429	123
25°	396	393	385	386	385	182
35°	342	337	330	328	326	213
45°	278	275	268	264	262	215
55°	210	208	202	197	195	188
65°	142	139	135	131	129	140
75°	74	73	71	68	69	79
85°	18	18	17	16	16	20
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: P1029327

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.9	459.9	459.9	459.9	459.9
2.5°	462.5	460.3	455.5	459.9	459.0
5°	459.9	458.1	453.2	456.8	455.9
7.5°	456.8	454.1	449.3	452.8	451.9
10°	451.9	448.8	443.5	447.1	445.7
12.5°	445.3	442.6	437.3	439.5	438.7
15°	437.8	435.1	429.4	431.1	428.9
17.5°	428.5	425.8	420.1	422.3	420.1
20°	418.3	415.7	409.5	410.8	409.0
22.5°	408.1	404.2	398.4	398.4	397.5
25°	396.2	392.7	385.1	386.0	385.1
27.5°	382.9	379.8	374.1	372.8	370.6
30°	369.7	366.1	359.5	358.2	356.4
32.5°	355.5	352.9	345.8	343.1	341.4
35°	341.8	337.4	330.3	327.7	325.5
37.5°	326.3	322.4	315.3	312.2	310.0
40°	310.4	306.9	299.8	295.8	294.1
42.5°	294.9	291.4	284.3	279.9	277.3
45°	278.1	275.0	268.4	263.5	261.8
47.5°	261.8	258.7	251.6	246.7	244.1
50°	244.5	242.3	236.1	229.9	227.7
52.5°	227.7	224.6	218.9	214.0	210.9
55°	210.5	207.8	202.5	197.2	195.0
57.5°	193.2	191.0	185.3	180.0	178.2
60°	176.0	174.2	168.0	163.2	161.8
62.5°	159.2	156.1	151.7	147.2	145.5
65°	141.9	139.3	134.9	130.9	128.7
67.5°	124.3	122.0	118.1	115.0	113.2
70°	107.9	106.1	102.1	99.1	97.3
72.5°	91.1	89.3	87.1	84.0	82.7
75°	74.3	73.4	71.2	68.5	69.4
77.5°	59.3	57.5	56.6	55.3	53.9
80°	44.2	43.8	42.9	41.6	40.7
82.5°	30.1	30.1	29.6	27.9	27.9
85°	18.1	17.7	17.2	15.9	15.5
87.5°	8.0	7.1	6.2	4.9	4.4
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: P1029327

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-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)