

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: P1029329

Luminaire Tested: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029329
REPORT IS A COMBINATION OF REPORTS P985520 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_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

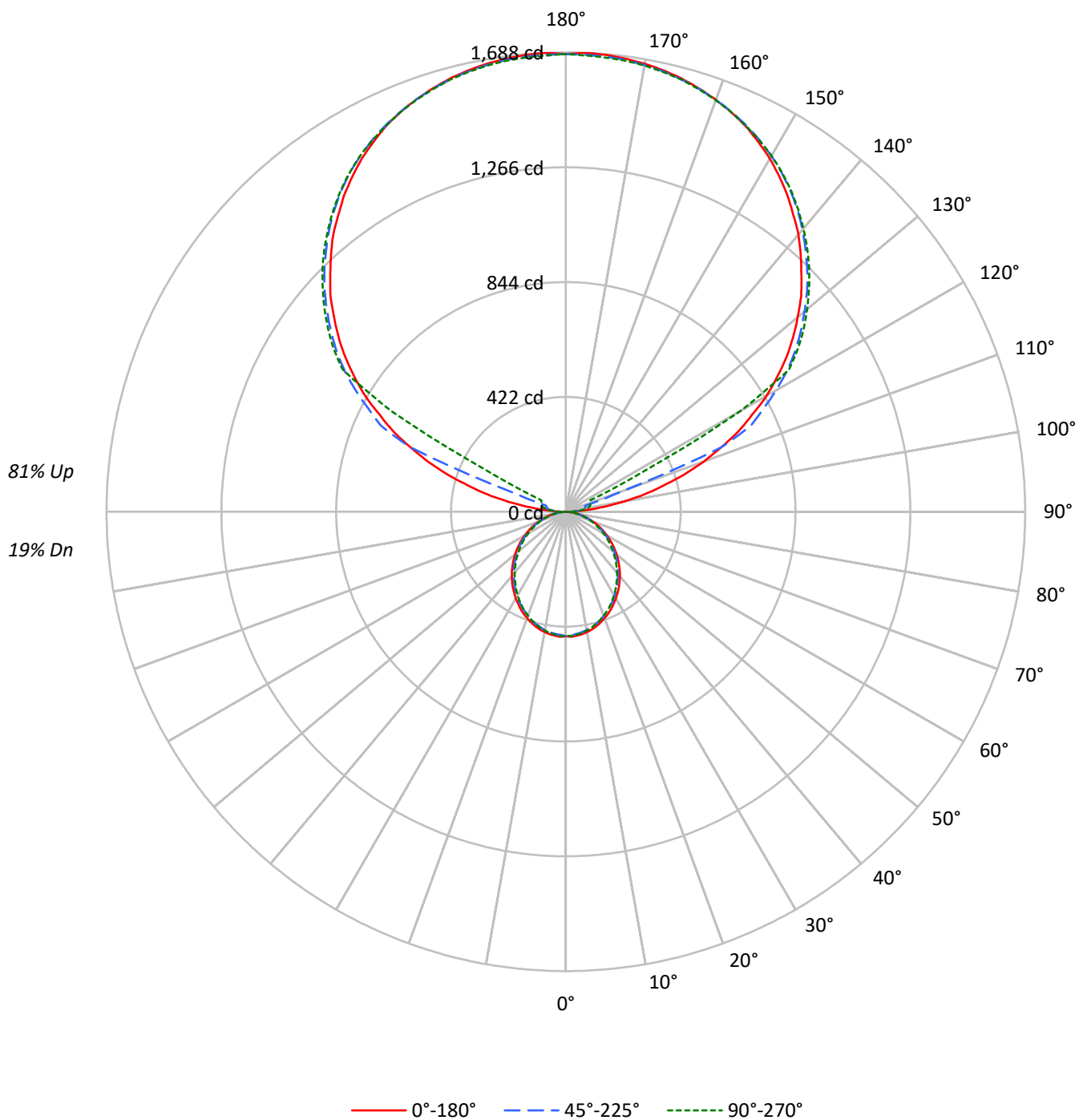
Lumens per Lamp: N/A
Luminaire Lumens: 6096.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	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°	7236	7236	7236
5°	7247	6897	6849
10°	7189	6583	6453
15°	7083	6266	6036
20°	6941	5921	5641
25°	6799	5561	5247
30°	6622	5223	4834
35°	6453	4866	4428
40°	6246	4515	4044
45°	6039	4166	3667
50°	5813	3811	3278
55°	5574	3431	2907
60°	5307	3019	2523
65°	5016	2603	2118
70°	4643	2144	1711
75°	4128	1654	1321
80°	3513	1123	849
85°	2543	521	362

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6039 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	0.7
10°-20°	121.1	2.0
20°-30°	177.9	2.9
30°-40°	206.6	3.4
40°-50°	206.4	3.4
50°-60°	179.9	3.0
60°-70°	133.0	2.2
70°-80°	75.3	1.2
80°-90°	22.8	0.4
90°-100°	55.5	0.9
100°-110°	206.7	3.4
110°-120°	548.2	9.0
120°-130°	909.3	14.9
130°-140°	965.9	15.8
140°-150°	897.7	14.7
150°-160°	721.7	11.8
160°-170°	465.0	7.6
170°-180°	160.1	2.6
0°-30°	342.0	5.6
0°-40°	548.6	9.0
0°-60°	934.9	15.3
0°-90°	1166.0	19.1
90°-120°	810.4	13.3
90°-150°	3583.2	58.8
90°-180°	4930.0	80.9
0°-180°	6096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	457	455	450	454	453	43
15°	435	432	427	429	426	123
25°	394	390	383	384	383	181
35°	340	335	328	326	324	212
45°	276	273	267	262	260	213
55°	209	207	201	196	194	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	1	15	24	30	33	6
95°	79	39	48	54	52	94
105°	370	406	74	88	92	395
115°	700	720	751	187	100	689
125°	989	1005	1028	1037	1040	882
135°	1224	1244	1255	1267	1264	946
145°	1420	1419	1440	1448	1442	888
155°	1564	1553	1567	1575	1565	721
165°	1648	1640	1644	1652	1644	465
175°	1685	1677	1679	1688	1676	160
180°	1682	1682	1682	1682	1682	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.1	457.1	457.1	457.1	457.1
2.5°	459.8	457.6	452.7	457.1	456.2
5°	457.1	455.4	450.5	454.0	453.2
7.5°	454.0	451.4	446.6	450.1	449.2
10°	449.2	446.1	440.9	444.4	443.1
12.5°	442.6	440.0	434.7	436.9	436.0
15°	435.1	432.5	426.8	428.6	426.4
17.5°	425.9	423.3	417.6	419.8	417.6
20°	415.8	413.2	407.0	408.3	406.6
22.5°	405.7	401.7	396.0	396.0	395.1
25°	393.8	390.3	382.8	383.7	382.8
27.5°	380.6	377.6	371.9	370.5	368.3
30°	367.5	363.9	357.3	356.0	354.3
32.5°	353.4	350.8	343.7	341.1	339.3
35°	339.8	335.4	328.3	325.7	323.5
37.5°	324.4	320.4	313.4	310.3	308.1
40°	308.6	305.0	298.0	294.1	292.3
42.5°	293.2	289.7	282.6	278.2	275.6
45°	276.5	273.4	266.8	262.0	260.2
47.5°	260.2	257.1	250.1	245.3	242.6
50°	243.1	240.9	234.7	228.6	226.4
52.5°	226.4	223.3	217.6	212.7	209.7
55°	209.2	206.6	201.3	196.0	193.8
57.5°	192.1	189.9	184.2	178.9	177.1
60°	174.9	173.2	167.0	162.2	160.9
62.5°	158.2	155.2	150.8	146.4	144.6
65°	141.1	138.5	134.1	130.1	127.9
67.5°	123.5	121.3	117.4	114.3	112.5
70°	107.2	105.5	101.5	98.5	96.7
72.5°	90.5	88.8	86.6	83.5	82.2
75°	73.8	73.0	70.8	68.1	69.0
77.5°	58.9	57.1	56.3	54.9	53.6
80°	44.0	43.5	42.6	41.3	40.4
82.5°	29.9	29.9	29.4	27.7	27.7
85°	18.0	17.6	17.1	15.8	15.4
87.5°	7.9	7.0	6.2	4.8	4.4
90°	1.2	14.6	24.3	30.4	32.9
92.5°	30.4	25.6	29.2	31.6	32.9
95°	79.1	38.9	47.5	53.5	52.3
97.5°	142.4	42.6	62.1	65.7	66.9
100°	215.4	48.7	69.4	79.1	81.5
102.5°	295.7	293.3	71.8	85.2	88.8
105°	369.9	406.4	74.2	87.6	92.5
107.5°	456.3	486.7	76.7	90.0	94.9
110°	539.1	564.6	212.9	91.3	96.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	616.9	638.8	618.2	93.7	97.3
115°	699.7	720.4	750.8	187.4	99.8
117.5°	771.5	795.8	816.5	642.5	323.7
120°	851.8	870.0	891.9	906.5	742.3
122.5°	919.9	939.4	963.7	971.0	972.2
125°	989.3	1005.1	1028.2	1036.7	1040.4
127.5°	1052.6	1069.6	1087.8	1100.0	1101.2
130°	1112.2	1131.7	1145.0	1158.4	1157.2
132.5°	1173.0	1188.8	1202.2	1213.2	1212.0
135°	1224.1	1243.6	1254.6	1266.7	1264.3
137.5°	1277.7	1292.3	1304.4	1316.6	1313.0
140°	1330.0	1339.7	1353.1	1364.1	1358.0
142.5°	1373.8	1382.3	1398.1	1407.9	1401.8
145°	1420.0	1418.8	1439.5	1448.0	1441.9
147.5°	1460.2	1456.5	1477.2	1483.3	1478.5
150°	1499.1	1490.6	1510.1	1517.4	1511.3
152.5°	1532.0	1522.3	1540.5	1547.8	1539.3
155°	1563.6	1552.7	1567.3	1574.6	1564.8
157.5°	1589.2	1579.4	1590.4	1598.9	1589.2
160°	1611.1	1603.8	1611.1	1618.4	1609.9
162.5°	1630.6	1623.3	1629.3	1637.9	1626.9
165°	1647.6	1640.3	1643.9	1652.5	1643.9
167.5°	1661.0	1653.7	1657.3	1665.8	1654.9
170°	1671.9	1664.6	1667.1	1675.6	1664.6
172.5°	1679.2	1671.9	1674.4	1682.9	1671.9
175°	1685.3	1676.8	1679.2	1687.7	1675.6
177.5°	1687.7	1679.2	1680.4	1689.0	1678.0
180°	1681.7	1681.7	1681.7	1681.7	1681.7

(END OF REPORT)