

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: P1029330

Luminaire Tested: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029330
REPORT IS A COMBINATION OF REPORTS P985521 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_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

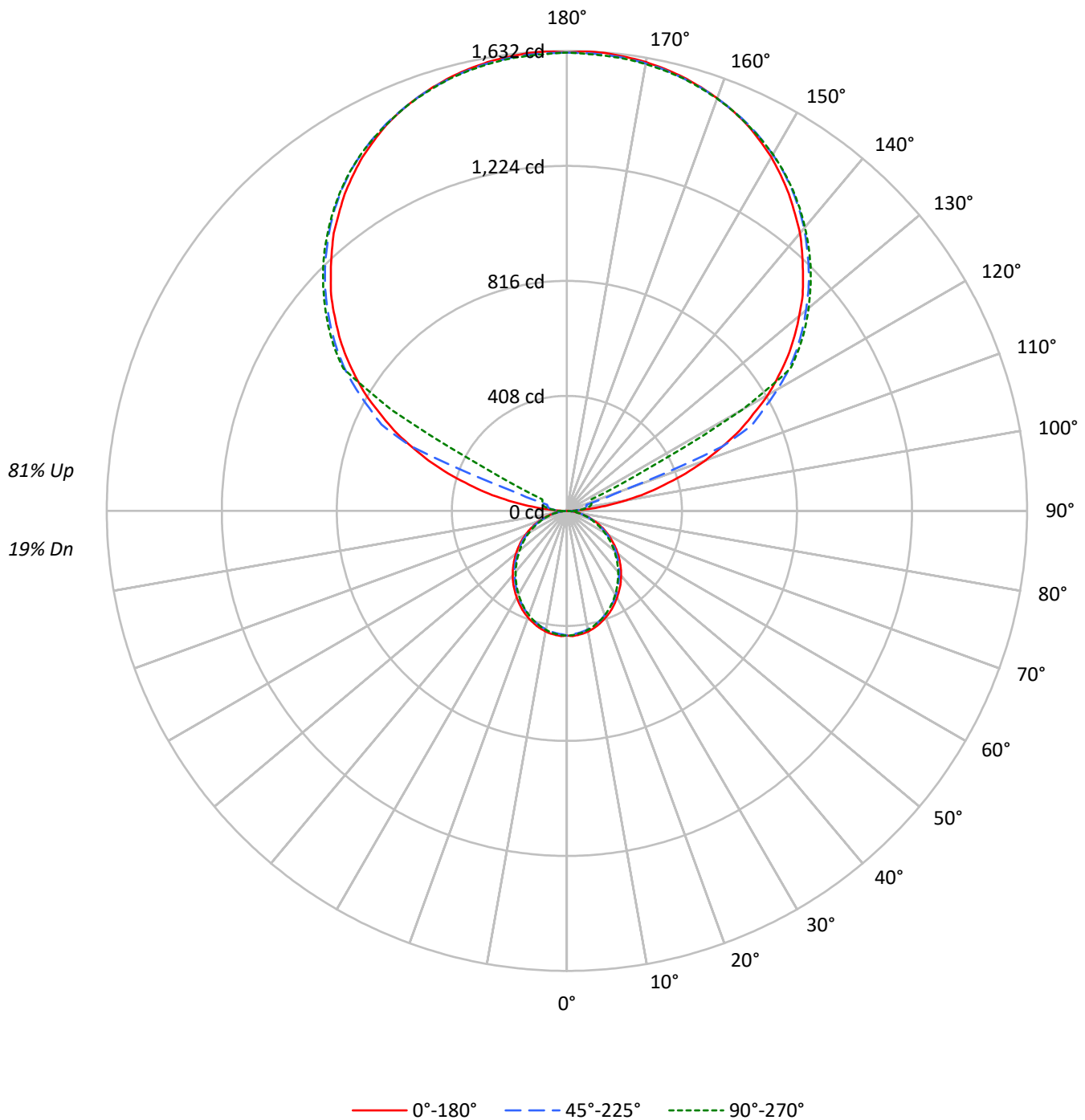
Lumens per Lamp: N/A
Luminaire Lumens: 5895.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1029330

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_5000K

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	22	17	14	15	13	11	10	8	7	5		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7000	7000	7000
5°	7011	6672	6625
10°	6953	6368	6242
15°	6852	6062	5838
20°	6714	5728	5457
25°	6578	5380	5075
30°	6405	5054	4676
35°	6243	4708	4283
40°	6041	4368	3911
45°	5840	4030	3548
50°	5622	3686	3170
55°	5393	3318	2812
60°	5134	2922	2440
65°	4852	2517	2049
70°	4491	2074	1654
75°	3994	1600	1279
80°	3393	1086	822
85°	2458	506	350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5840 cd/sqm

TEST NUMBER: P1029330

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	0.7
10°-20°	117.1	2.0
20°-30°	172.1	2.9
30°-40°	199.9	3.4
40°-50°	199.6	3.4
50°-60°	174.1	3.0
60°-70°	128.7	2.2
70°-80°	72.8	1.2
80°-90°	22.1	0.4
90°-100°	53.6	0.9
100°-110°	199.9	3.4
110°-120°	530.1	9.0
120°-130°	879.2	14.9
130°-140°	934.0	15.8
140°-150°	868.0	14.7
150°-160°	697.9	11.8
160°-170°	449.7	7.6
170°-180°	154.8	2.6
0°-30°	330.8	5.6
0°-40°	530.7	9.0
0°-60°	904.3	15.3
0°-90°	1127.9	19.1
90°-120°	783.6	13.3
90°-150°	3464.9	58.8
90°-180°	4767.0	80.9
0°-180°	5895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	442	440	436	439	438	42
15°	421	418	413	415	412	119
25°	381	378	370	371	370	175
35°	329	324	318	315	313	205
45°	267	264	258	253	252	206
55°	202	200	195	190	188	181
65°	136	134	130	126	124	135
75°	71	71	68	66	67	76
85°	17	17	17	15	15	19
90°	1	14	24	29	32	5
95°	76	38	46	52	51	91
105°	358	393	72	85	89	382
115°	677	697	726	181	96	666
125°	957	972	994	1002	1006	853
135°	1184	1202	1213	1225	1222	914
145°	1373	1372	1392	1400	1394	859
155°	1512	1501	1516	1523	1513	697
165°	1593	1586	1590	1598	1590	450
175°	1630	1621	1624	1632	1620	155
180°	1626	1626	1626	1626	1626	

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CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	442.2	442.2	442.2	442.2	442.2
2.5°	444.7	442.6	437.9	442.2	441.3
5°	442.2	440.5	435.8	439.2	438.4
7.5°	439.2	436.7	432.0	435.4	434.5
10°	434.5	431.6	426.5	429.9	428.6
12.5°	428.2	425.6	420.5	422.6	421.8
15°	420.9	418.4	412.9	414.6	412.4
17.5°	412.0	409.5	403.9	406.0	403.9
20°	402.2	399.7	393.7	395.0	393.3
22.5°	392.4	388.6	383.1	383.1	382.2
25°	381.0	377.6	370.3	371.2	370.3
27.5°	368.2	365.2	359.7	358.4	356.3
30°	355.5	352.1	345.7	344.4	342.7
32.5°	341.8	339.3	332.5	329.9	328.2
35°	328.7	324.4	317.6	315.1	312.9
37.5°	313.8	310.0	303.2	300.2	298.1
40°	298.5	295.1	288.3	284.4	282.7
42.5°	283.6	280.2	273.4	269.1	266.6
45°	267.4	264.5	258.1	253.4	251.7
47.5°	251.7	248.7	241.9	237.3	234.7
50°	235.1	233.0	227.0	221.1	219.0
52.5°	219.0	216.0	210.5	205.8	202.8
55°	202.4	199.8	194.7	189.6	187.5
57.5°	185.8	183.7	178.2	173.0	171.3
60°	169.2	167.5	161.6	156.9	155.6
62.5°	153.1	150.1	145.8	141.6	139.9
65°	136.5	133.9	129.7	125.9	123.7
67.5°	119.5	117.4	113.5	110.5	108.8
70°	103.7	102.0	98.2	95.2	93.5
72.5°	87.6	85.9	83.8	80.8	79.5
75°	71.4	70.6	68.5	65.9	66.8
77.5°	57.0	55.3	54.4	53.1	51.9
80°	42.5	42.1	41.2	40.0	39.1
82.5°	28.9	28.9	28.5	26.8	26.8
85°	17.4	17.0	16.6	15.3	14.9
87.5°	7.7	6.8	6.0	4.7	4.3
90°	1.2	14.1	23.5	29.4	31.8
92.5°	29.4	24.7	28.2	30.6	31.8
95°	76.5	37.7	45.9	51.8	50.6
97.5°	137.7	41.2	60.0	63.5	64.7
100°	208.3	47.1	67.1	76.5	78.8
102.5°	285.9	283.6	69.4	82.4	85.9
105°	357.7	393.0	71.8	84.7	89.4
107.5°	441.2	470.6	74.1	87.1	91.8
110°	521.2	546.0	205.9	88.2	93.0

TEST NUMBER: P1029330

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	596.5	617.7	597.7	90.6	94.1
115°	676.6	696.6	726.0	181.2	96.5
117.5°	746.0	769.5	789.5	621.3	313.0
120°	823.6	841.3	862.5	876.6	717.7
122.5°	889.5	908.4	931.9	938.9	940.1
125°	956.6	971.9	994.2	1002.5	1006.0
127.5°	1017.8	1034.3	1051.9	1063.7	1064.8
130°	1075.4	1094.3	1107.2	1120.1	1119.0
132.5°	1134.3	1149.6	1162.5	1173.1	1171.9
135°	1183.7	1202.5	1213.1	1224.9	1222.5
137.5°	1235.5	1249.6	1261.3	1273.1	1269.6
140°	1286.1	1295.5	1308.4	1319.0	1313.1
142.5°	1328.4	1336.6	1351.9	1361.4	1355.5
145°	1373.1	1371.9	1391.9	1400.2	1394.3
147.5°	1411.9	1408.4	1428.4	1434.3	1429.6
150°	1449.6	1441.4	1460.2	1467.3	1461.4
152.5°	1481.4	1472.0	1489.6	1496.7	1488.4
155°	1512.0	1501.4	1515.5	1522.6	1513.1
157.5°	1536.7	1527.3	1537.8	1546.1	1536.7
160°	1557.9	1550.8	1557.9	1564.9	1556.7
162.5°	1576.7	1569.6	1575.5	1583.7	1573.1
165°	1593.1	1586.1	1589.6	1597.9	1589.6
167.5°	1606.1	1599.0	1602.6	1610.8	1600.2
170°	1616.7	1609.6	1612.0	1620.2	1609.6
172.5°	1623.7	1616.7	1619.0	1627.3	1616.7
175°	1629.6	1621.4	1623.7	1632.0	1620.2
177.5°	1632.0	1623.7	1624.9	1633.2	1622.6
180°	1626.1	1626.1	1626.1	1626.1	1626.1

(END OF REPORT)