

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: P1029477

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029477
REPORT IS A COMBINATION OF REPORTS P985971 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_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

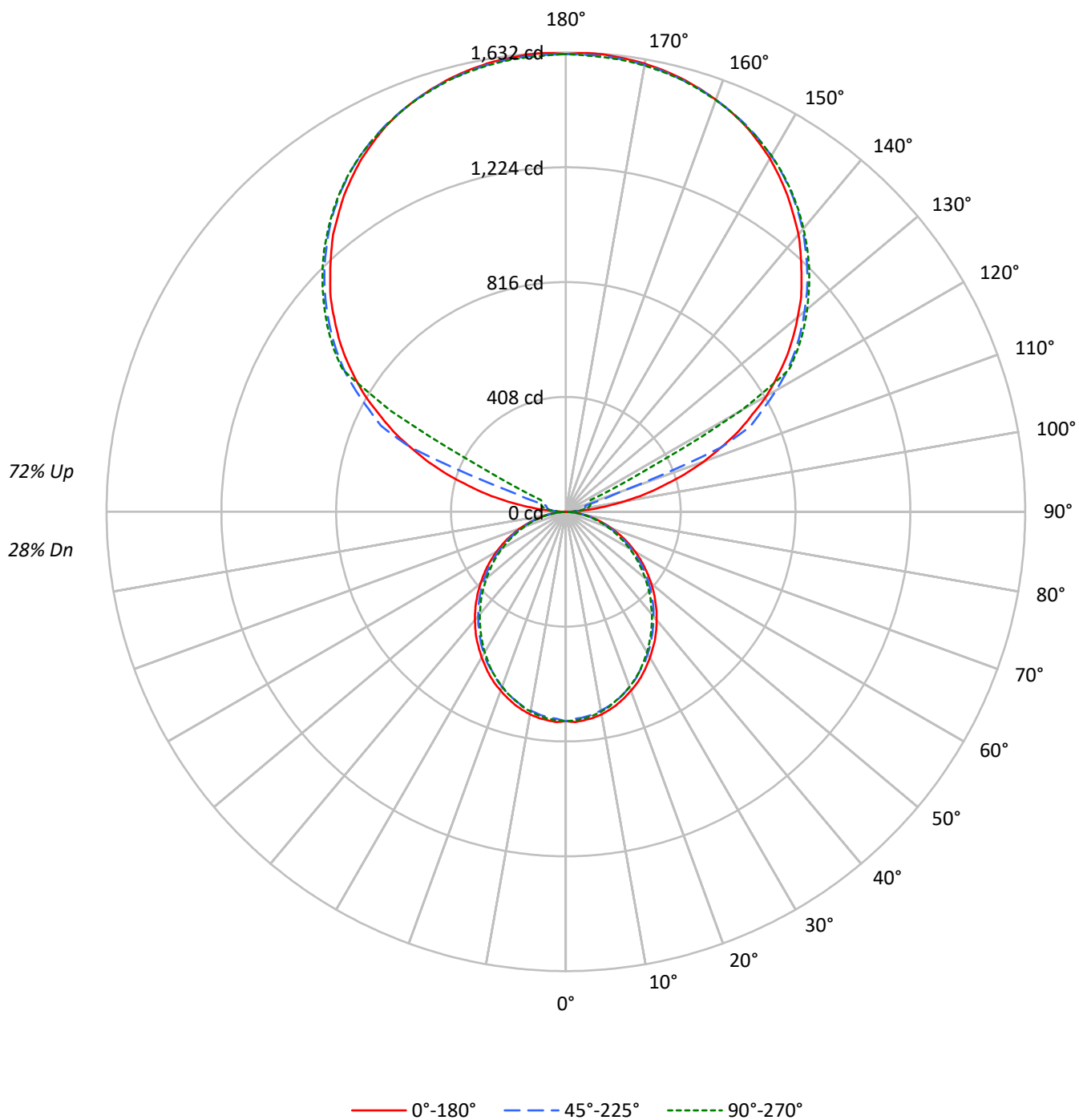
Lumens per Lamp: N/A
Luminaire Lumens: 6662.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36			28
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31			24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26			20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22			17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	27	22	20	19			15
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16			13
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	14			11
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	14	13			10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11			9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10			8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11772	11772	11772
5°	11791	11220	11141
10°	11695	10709	10497
15°	11524	10194	9819
20°	11291	9633	9177
25°	11061	9048	8536
30°	10771	8498	7863
35°	10497	7919	7203
40°	10160	7345	6579
45°	9824	6777	5966
50°	9455	6199	5332
55°	9070	5582	4729
60°	8636	4912	4104
65°	8159	4233	3447
70°	7557	3489	2783
75°	6718	2689	2149
80°	5708	1829	1383
85°	4139	851	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.1
10°-20°	196.9	3.0
20°-30°	289.4	4.3
30°-40°	336.1	5.0
40°-50°	335.7	5.0
50°-60°	292.7	4.4
60°-70°	216.4	3.2
70°-80°	122.4	1.8
80°-90°	35.2	0.5
90°-100°	53.6	0.8
100°-110°	199.9	3.0
110°-120°	530.1	8.0
120°-130°	879.2	13.2
130°-140°	934.0	14.0
140°-150°	868.0	13.0
150°-160°	697.9	10.5
160°-170°	449.7	6.7
170°-180°	154.8	2.3
0°-30°	556.3	8.4
0°-40°	892.4	13.4
0°-60°	1520.9	22.8
0°-90°	1894.9	28.4
90°-120°	783.6	11.8
90°-150°	3464.9	52.0
90°-180°	4767.0	71.6
0°-180°	6662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	744	741	733	739	737	71
15°	708	704	694	697	694	199
25°	641	635	623	624	623	295
35°	553	546	534	530	526	345
45°	450	445	434	426	423	347
55°	340	336	328	319	315	304
65°	230	225	218	212	208	227
75°	120	119	115	111	112	128
85°	29	29	28	26	25	33
90°	1	14	24	29	32	6
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.7	743.7	743.7	743.7	743.7
2.5°	748.0	744.4	736.5	743.7	742.2
5°	743.7	740.8	732.9	738.7	737.2
7.5°	738.7	734.4	726.5	732.2	730.8
10°	730.8	725.8	717.2	722.9	720.8
12.5°	720.1	715.8	707.2	710.8	709.3
15°	707.9	703.6	694.3	697.2	693.6
17.5°	692.9	688.6	679.3	682.9	679.3
20°	676.4	672.2	662.1	664.3	661.4
22.5°	660.0	653.6	644.3	644.3	642.8
25°	640.7	635.0	622.8	624.2	622.8
27.5°	619.2	614.2	604.9	602.8	599.2
30°	597.8	592.1	581.3	579.2	576.3
32.5°	574.9	570.6	559.2	554.9	552.0
35°	552.7	545.6	534.2	529.9	526.3
37.5°	527.7	521.3	509.8	504.8	501.3
40°	502.0	496.3	484.8	478.4	475.5
42.5°	476.9	471.2	459.8	452.6	448.3
45°	449.8	444.8	434.0	426.2	423.3
47.5°	423.3	418.3	406.9	399.0	394.7
50°	395.4	391.9	381.8	371.8	368.3
52.5°	368.3	363.3	354.0	346.1	341.1
55°	340.4	336.1	327.5	318.9	315.3
57.5°	312.5	308.9	299.6	291.0	288.2
60°	284.6	281.7	271.7	263.9	261.7
62.5°	257.4	252.4	245.3	238.1	235.3
65°	229.5	225.2	218.1	211.7	208.1
67.5°	200.9	197.4	190.9	185.9	183.1
70°	174.5	171.6	165.2	160.2	157.3
72.5°	147.3	144.4	140.9	135.9	133.7
75°	120.1	118.7	115.1	110.8	112.3
77.5°	95.8	93.0	91.5	89.4	87.2
80°	71.5	70.8	69.4	67.2	65.8
82.5°	48.6	48.6	47.9	45.0	45.0
85°	29.3	28.6	27.9	25.7	25.0
87.5°	12.9	11.4	10.0	7.9	7.2
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

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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)