

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: P1029173

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029173
REPORT IS A COMBINATION OF REPORTS P985056 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D1240UB2750-4F0-XX-W2A-D_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

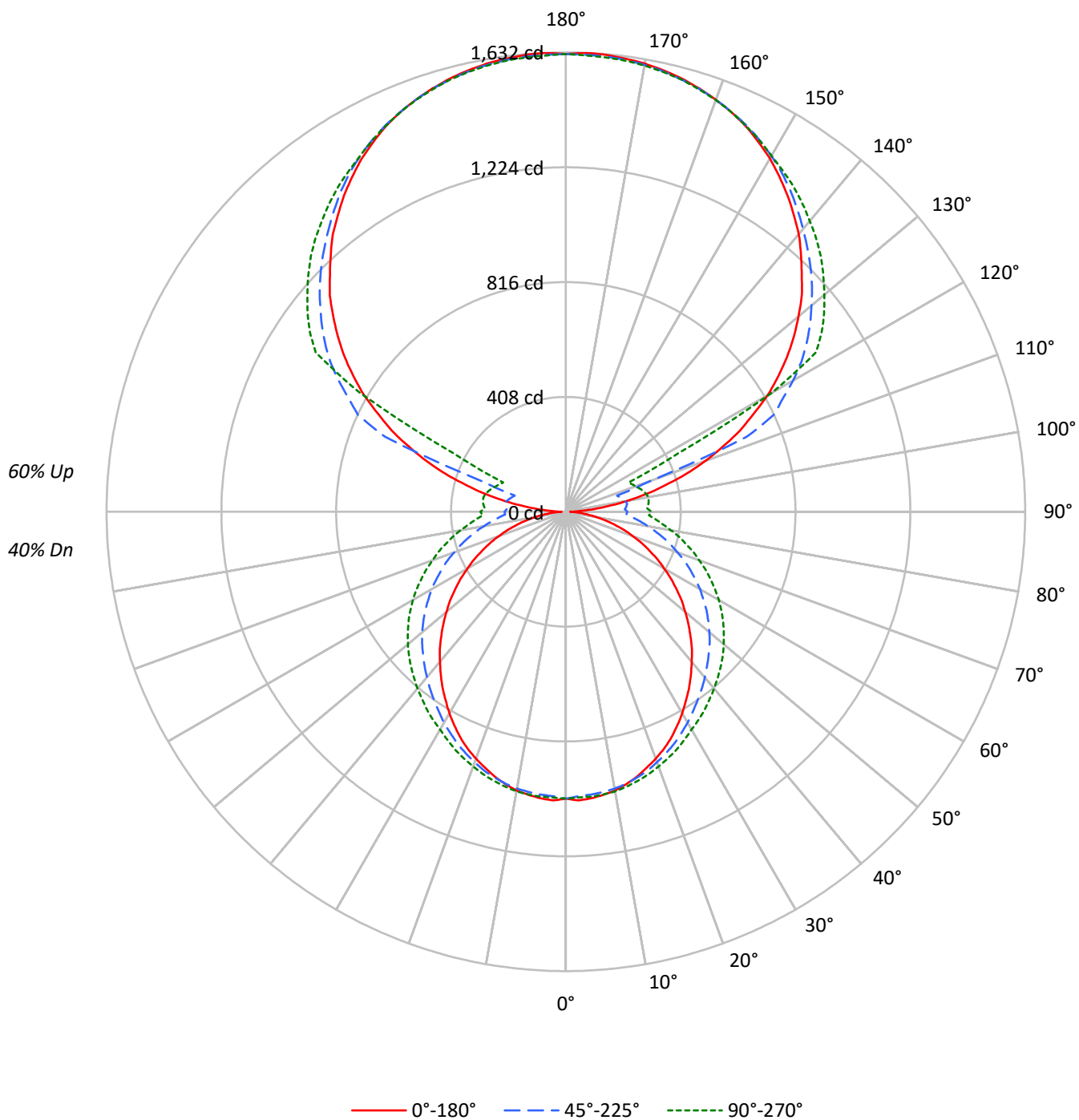
Lumens per Lamp: N/A
Luminaire Lumens: 8658.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 103.4
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47			40
1	94	90	85	81	86	81	78	74	66	64	61	52	51	49	40	38	37			31
2	85	77	71	65	77	71	65	60	57	53	50	45	42	40	34	32	30			25
3	78	68	60	54	70	62	55	50	50	45	41	40	36	33	30	27	25			21
4	71	60	51	45	64	54	47	42	44	39	35	35	31	28	26	24	21			17
5	65	53	45	38	58	48	41	35	39	34	30	31	27	24	24	21	18			15
6	60	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16			13
7	55	42	34	29	50	39	32	27	32	26	22	25	21	18	19	16	14			11
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	18	15	13			10
9	47	35	27	22	43	32	25	21	27	21	18	21	17	14	16	13	11			9
10	44	32	25	20	40	29	23	18	24	19	16	20	16	13	15	12	10			8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16130	16130	16130
5°	16202	15441	15354
10°	16094	14906	14688
15°	15867	14353	14006
20°	15580	13772	13358
25°	15298	13216	12771
30°	14901	12651	12190
35°	14500	12105	11764
40°	14078	11634	11339
45°	13674	11207	10970
50°	13243	10813	10604
55°	12787	10395	10233
60°	12235	9958	9842
65°	11653	9457	9392
70°	11000	8921	8909
75°	10159	8383	8452
80°	8846	7821	7978
85°	7515	7294	7570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.1
10°-20°	277.0	3.2
20°-30°	419.8	4.8
30°-40°	511.2	5.9
40°-50°	550.0	6.4
50°-60°	534.1	6.2
60°-70°	466.4	5.4
70°-80°	359.0	4.1
80°-90°	243.3	2.8
90°-100°	219.5	2.5
100°-110°	321.0	3.7
110°-120°	610.1	7.0
120°-130°	923.8	10.7
130°-140°	952.7	11.0
140°-150°	871.2	10.1
150°-160°	697.9	8.1
160°-170°	449.7	5.2
170°-180°	154.8	1.8
0°-30°	793.4	9.2
0°-40°	1304.6	15.1
0°-60°	2388.7	27.6
0°-90°	3457.4	39.9
90°-120°	1150.6	13.3
90°-150°	3898.3	45.0
90°-180°	5201.0	60.1
0°-180°	8658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1022	1018	1009	1018	1016	97
15°	975	978	978	991	989	275
25°	886	896	910	927	932	407
35°	764	789	817	849	860	477
45°	626	666	718	764	778	483
55°	480	533	610	663	682	429
65°	328	400	487	548	567	326
75°	182	264	359	422	442	192
85°	53	145	239	301	322	56
90°	16	114	218	283	304	15
95°	88	119	216	278	294	100
105°	365	443	199	263	284	391
115°	682	719	815	314	246	671
125°	960	975	1044	1093	1109	856
135°	1185	1204	1229	1272	1282	916
145°	1373	1372	1392	1409	1410	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°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1026.3	1021.9	1011.6	1019.0	1016.0
5°	1021.9	1017.5	1008.6	1017.5	1016.0
7.5°	1014.5	1011.6	1004.2	1014.5	1013.1
10°	1005.7	1002.7	998.3	1010.1	1008.6
12.5°	990.9	992.4	989.4	1001.2	999.8
15°	974.7	977.6	977.6	990.9	989.4
17.5°	954.0	959.9	964.3	977.6	977.6
20°	933.3	940.7	946.6	962.8	962.8
22.5°	911.2	920.0	928.9	945.1	948.1
25°	886.1	896.4	909.7	927.4	931.8
27.5°	856.5	872.8	887.5	909.7	912.6
30°	827.0	846.2	865.4	889.0	893.4
32.5°	794.5	816.6	840.3	868.3	877.2
35°	763.5	788.6	816.6	849.1	859.5
37.5°	729.5	757.6	793.0	828.5	838.8
40°	695.6	728.0	767.9	806.3	819.6
42.5°	663.1	695.6	742.8	785.6	798.9
45°	626.1	666.0	717.7	763.5	778.3
47.5°	590.7	633.5	692.6	739.9	756.1
50°	553.8	599.6	666.0	716.2	732.5
52.5°	518.3	567.1	638.0	689.6	707.4
55°	479.9	533.1	609.9	663.1	682.3
57.5°	443.0	502.1	578.9	636.5	655.7
60°	403.2	466.7	550.8	606.9	627.6
62.5°	367.7	434.2	518.3	578.9	598.1
65°	327.8	400.2	487.3	547.9	567.1
67.5°	292.4	367.7	456.3	516.9	537.5
70°	254.0	330.8	422.4	485.9	503.6
72.5°	218.6	298.3	391.3	453.4	475.5
75°	181.6	264.3	358.9	422.4	441.6
77.5°	146.2	231.9	327.8	391.3	412.0
80°	110.8	200.8	296.8	358.9	379.5
82.5°	81.2	169.8	267.3	329.3	348.5
85°	53.2	144.7	239.2	301.3	321.9
87.5°	32.5	121.1	215.6	276.2	295.4
90°	16.0	114.5	218.4	283.4	303.5
92.5°	42.7	116.3	209.8	269.8	288.8
95°	88.3	118.9	215.7	277.7	294.3
97.5°	148.0	115.0	219.5	277.6	296.6
100°	218.6	112.1	214.8	278.8	297.4
102.5°	294.8	341.2	206.7	272.9	292.6
105°	365.1	443.2	198.8	263.4	284.3
107.5°	448.6	513.4	190.8	254.0	274.9
110°	527.1	581.4	313.7	243.3	264.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	602.4	647.2	695.2	235.3	255.1
115°	682.5	718.8	814.6	314.1	245.7
117.5°	750.4	785.7	867.8	743.9	450.3
120°	828.0	851.6	931.9	987.4	844.7
122.5°	893.9	914.3	992.4	1039.3	1053.8
125°	959.6	974.9	1044.4	1092.6	1109.4
127.5°	1020.8	1035.8	1093.2	1142.0	1156.4
130°	1078.4	1095.8	1139.7	1188.0	1198.7
132.5°	1137.3	1151.1	1186.1	1230.7	1241.3
135°	1185.2	1204.0	1229.3	1272.2	1281.6
137.5°	1237.0	1251.1	1270.2	1310.0	1316.9
140°	1287.6	1295.5	1311.4	1345.6	1348.5
142.5°	1329.9	1336.6	1351.9	1379.1	1380.6
145°	1373.1	1371.9	1391.9	1409.1	1410.5
147.5°	1411.9	1408.4	1428.4	1435.8	1435.5
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)