

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: P1029300

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029300
REPORT IS A COMBINATION OF REPORTS P985431 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D970UB2750-4F0-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

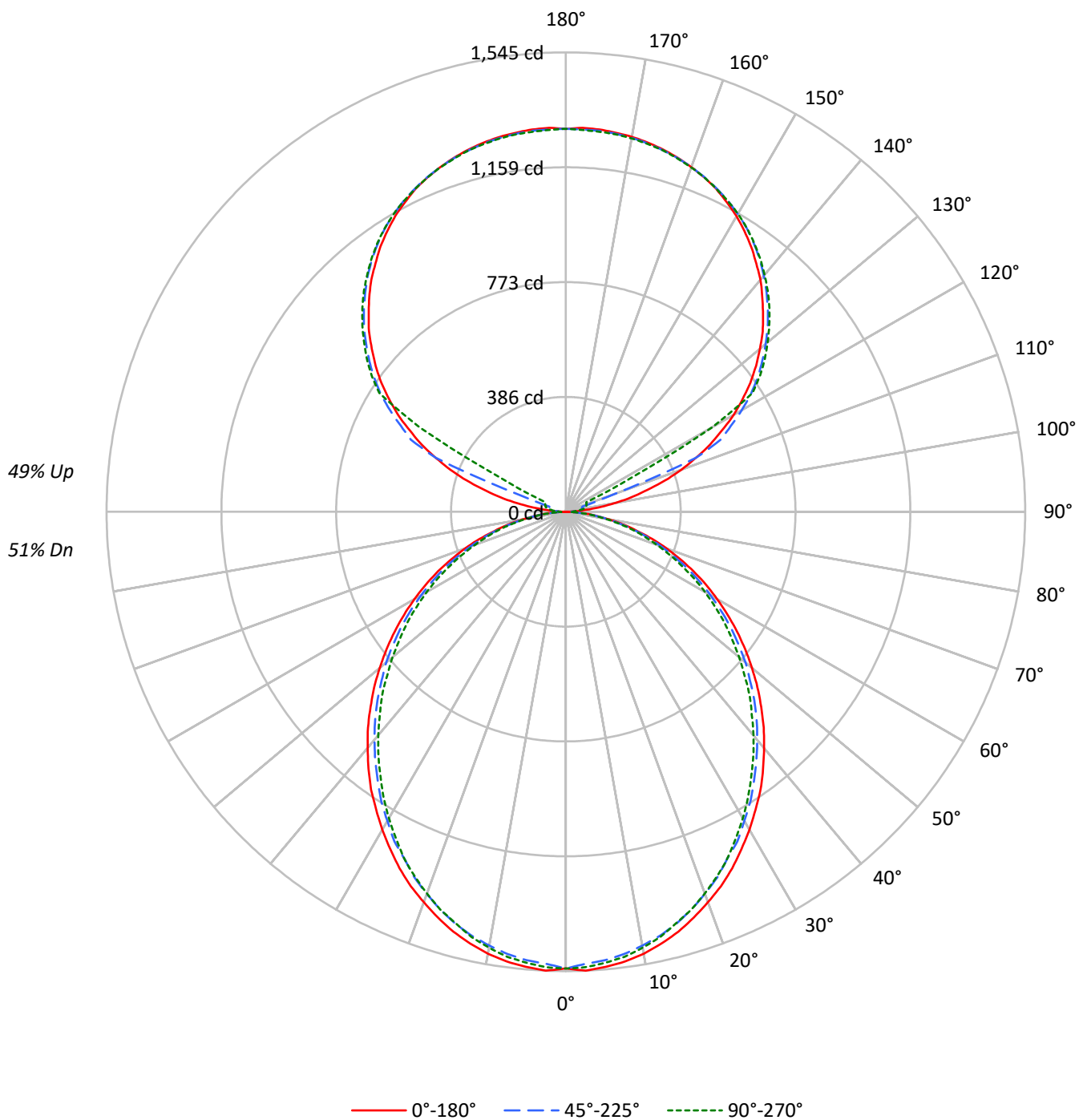
Lumens per Lamp: N/A
Luminaire Lumens: 7686.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	57	57	57
1	98	94	90	86	90	87	83	80	74	71	69	61	60	58	50	49	48	48	48	43
2	89	82	76	70	82	76	70	66	64	60	57	54	51	49	44	42	40	40	40	36
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	34	34	34	30
4	74	64	56	50	68	59	52	47	50	45	41	43	38	35	35	32	30	30	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	28	26	26	26	23
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	25	23	23	23	20
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20	20	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	18	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	16	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15	15	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24315	24315	24315
5°	24355	23176	23013
10°	24156	22120	21681
15°	23803	21057	20282
20°	23324	19899	18956
25°	22848	18690	17633
30°	22249	17554	16243
35°	21683	16355	14879
40°	20984	15172	13589
45°	20289	13999	12325
50°	19533	12805	11011
55°	18732	11530	9770
60°	17837	10148	8477
65°	16854	8743	7118
70°	15608	7206	5748
75°	13879	5555	4439
80°	11792	3776	2857
85°	8560	1756	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20289 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	1.9
10°-20°	406.8	5.3
20°-30°	597.8	7.8
30°-40°	694.3	9.0
40°-50°	693.4	9.0
50°-60°	604.6	7.9
60°-70°	446.9	5.8
70°-80°	252.9	3.3
80°-90°	69.0	0.9
90°-100°	42.5	0.6
100°-110°	158.3	2.1
110°-120°	419.9	5.5
120°-130°	696.4	9.1
130°-140°	739.7	9.6
140°-150°	687.5	8.9
150°-160°	552.7	7.2
160°-170°	356.2	4.6
170°-180°	122.6	1.6
0°-30°	1149.1	15.0
0°-40°	1843.4	24.0
0°-60°	3141.4	40.9
0°-90°	3910.3	50.9
90°-120°	620.7	8.1
90°-150°	2744.3	35.7
90°-180°	3776.0	49.1
0°-180°	7686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1536	1530	1514	1526	1523	146
15°	1462	1453	1434	1440	1433	412
25°	1323	1312	1286	1289	1286	609
35°	1142	1127	1103	1094	1087	713
45°	929	919	896	880	874	717
55°	703	694	676	659	651	629
65°	474	465	450	437	430	469
75°	248	245	238	229	232	265
85°	61	59	58	53	52	67
90°	1	11	19	23	25	7
95°	61	30	36	41	40	72
105°	283	311	57	67	71	303
115°	536	552	575	144	76	527
125°	758	770	788	794	797	676
135°	938	952	961	970	968	724
145°	1088	1087	1102	1109	1104	680
155°	1198	1189	1200	1206	1198	552
165°	1262	1256	1259	1266	1259	356
175°	1291	1284	1286	1293	1283	123
180°	1288	1288	1288	1288	1288	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.1	1536.1	1536.1	1536.1	1536.1
2.5°	1544.9	1537.5	1521.3	1536.1	1533.1
5°	1536.1	1530.2	1513.9	1525.7	1522.8
7.5°	1525.7	1516.9	1500.6	1512.4	1509.5
10°	1509.5	1499.1	1481.4	1493.2	1488.8
12.5°	1487.3	1478.5	1460.7	1468.1	1465.2
15°	1462.2	1453.4	1434.2	1440.1	1432.7
17.5°	1431.2	1422.3	1403.1	1410.5	1403.1
20°	1397.2	1388.4	1367.7	1372.1	1366.2
22.5°	1363.3	1350.0	1330.8	1330.8	1327.8
25°	1323.4	1311.6	1286.5	1289.4	1286.5
27.5°	1279.1	1268.7	1249.5	1245.1	1237.7
30°	1234.8	1222.9	1200.8	1196.4	1190.5
32.5°	1187.5	1178.6	1155.0	1146.1	1140.2
35°	1141.7	1126.9	1103.3	1094.4	1087.1
37.5°	1090.0	1076.7	1053.1	1042.8	1035.4
40°	1036.8	1025.0	1001.4	988.1	982.2
42.5°	985.2	973.3	949.7	934.9	926.1
45°	929.0	918.7	896.5	880.3	874.4
47.5°	874.4	864.0	840.4	824.2	815.3
50°	816.8	809.4	788.7	768.0	760.6
52.5°	760.6	750.3	731.1	714.9	704.5
55°	703.0	694.2	676.5	658.7	651.4
57.5°	645.4	638.1	618.9	601.1	595.2
60°	587.8	581.9	561.3	545.0	540.6
62.5°	531.7	521.4	506.6	491.8	485.9
65°	474.1	465.3	450.5	437.2	429.8
67.5°	415.0	407.6	394.4	384.0	378.1
70°	360.4	354.5	341.2	330.8	324.9
72.5°	304.3	298.4	291.0	280.6	276.2
75°	248.1	245.2	237.8	228.9	231.9
77.5°	197.9	192.0	189.1	184.6	180.2
80°	147.7	146.2	143.3	138.8	135.9
82.5°	100.4	100.4	99.0	93.1	93.1
85°	60.6	59.1	57.6	53.2	51.7
87.5°	26.6	23.6	20.7	16.2	14.8
90°	0.9	11.2	18.6	23.3	25.2
92.5°	23.3	19.6	22.4	24.2	25.2
95°	60.6	29.8	36.3	41.0	40.1
97.5°	109.0	32.6	47.5	50.3	51.3
100°	165.0	37.3	53.1	60.6	62.4
102.5°	226.5	224.6	55.0	65.2	68.0
105°	283.3	311.3	56.8	67.1	70.8
107.5°	349.5	372.8	58.7	69.0	72.7
110°	412.8	432.4	163.1	69.9	73.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	472.5	489.3	473.4	71.8	74.6
115°	535.9	551.7	575.0	143.5	76.4
117.5°	590.8	609.5	625.3	492.1	247.9
120°	652.3	666.3	683.1	694.3	568.5
122.5°	704.5	719.4	738.1	743.7	744.6
125°	757.7	769.8	787.5	794.0	796.8
127.5°	806.1	819.2	833.1	842.5	843.4
130°	851.8	866.7	876.9	887.2	886.3
132.5°	898.4	910.5	920.7	929.1	928.2
135°	937.5	952.4	960.8	970.1	968.3
137.5°	978.5	989.7	999.0	1008.3	1005.5
140°	1018.6	1026.1	1036.3	1044.7	1040.0
142.5°	1052.1	1058.7	1070.8	1078.2	1073.6
145°	1087.6	1086.6	1102.5	1109.0	1104.3
147.5°	1118.3	1115.5	1131.4	1136.0	1132.3
150°	1148.1	1141.6	1156.5	1162.1	1157.5
152.5°	1173.3	1165.8	1179.8	1185.4	1178.9
155°	1197.5	1189.1	1200.3	1205.9	1198.5
157.5°	1217.1	1209.6	1218.0	1224.6	1217.1
160°	1233.9	1228.3	1233.9	1239.5	1232.9
162.5°	1248.8	1243.2	1247.8	1254.4	1246.0
165°	1261.8	1256.2	1259.0	1265.6	1259.0
167.5°	1272.1	1266.5	1269.3	1275.8	1267.4
170°	1280.5	1274.9	1276.7	1283.3	1274.9
172.5°	1286.1	1280.5	1282.3	1288.9	1280.5
175°	1290.7	1284.2	1286.1	1292.6	1283.3
177.5°	1292.6	1286.1	1287.0	1293.5	1285.1
180°	1287.9	1287.9	1287.9	1287.9	1287.9

(END OF REPORT)