

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: P1029296

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029296
REPORT IS A COMBINATION OF REPORTS P985421 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-F1_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

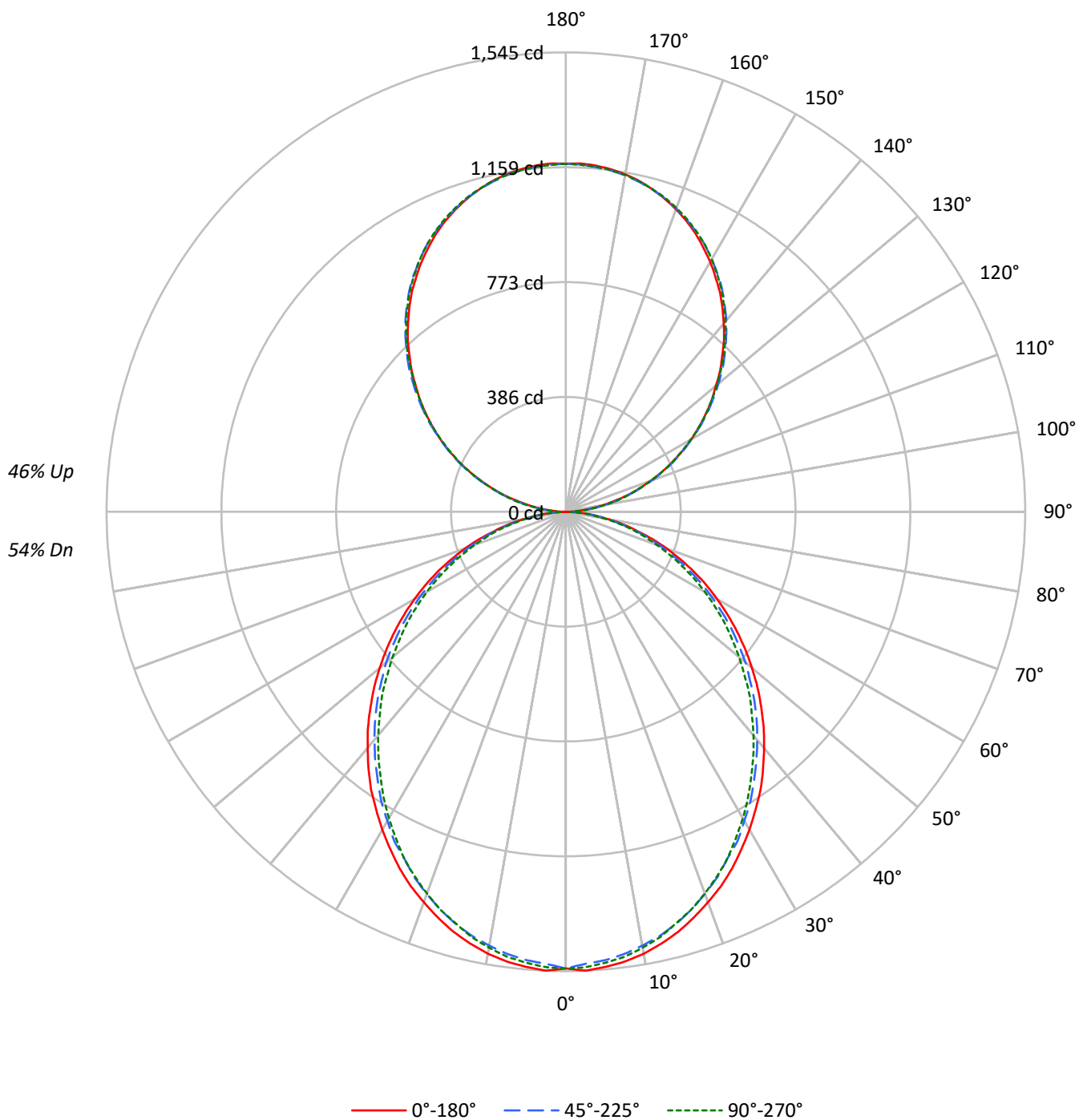
Lumens per Lamp: N/A
Luminaire Lumens: 7184.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	94	90	87	91	88	84	81	75	73	71	64	62	60	53	52	51
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	47	45	43
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	36
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	31
5	69	57	49	43	64	53	46	41	46	41	36	40	35	32	33	30	27
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21
8	55	42	34	29	51	40	32	28	35	29	25	30	25	22	25	22	19
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17
10	48	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16

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	2.0
10°-20°	406.8	5.7
20°-30°	597.8	8.3
30°-40°	694.3	9.7
40°-50°	693.4	9.7
50°-60°	604.6	8.4
60°-70°	446.9	6.2
70°-80°	252.9	3.5
80°-90°	70.1	1.0
90°-100°	72.4	1.0
100°-110°	230.2	3.2
110°-120°	393.9	5.5
120°-130°	518.0	7.2
130°-140°	581.5	8.1
140°-150°	570.2	7.9
150°-160°	478.3	6.7
160°-170°	317.2	4.4
170°-180°	110.9	1.5
0°-30°	1149.1	16.0
0°-40°	1843.4	25.7
0°-60°	3141.4	43.7
0°-90°	3911.3	54.4
90°-120°	696.5	9.7
90°-150°	2366.2	32.9
90°-180°	3273.0	45.6
0°-180°	7184.0	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	13	35	33	34	7
95°	51	61	63	63	61	57
105°	212	215	217	219	219	224
115°	395	401	399	398	395	391
125°	575	584	581	578	577	514
135°	744	755	757	756	753	575
145°	903	910	916	917	913	564
155°	1032	1035	1038	1043	1040	475
165°	1123	1122	1122	1129	1124	317
175°	1169	1166	1164	1171	1165	111
180°	1171	1171	1171	1171	1171	

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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°	1.0	12.8	34.6	32.6	33.6
92.5°	21.7	29.6	30.6	31.6	31.6
95°	51.4	61.2	63.2	63.2	61.2
97.5°	85.9	94.8	98.8	98.8	98.8
100°	125.5	133.4	136.3	136.3	135.3
102.5°	166.9	172.9	176.8	177.8	176.8
105°	212.4	215.3	217.3	219.3	219.3
107.5°	257.8	261.8	261.8	262.8	257.8
110°	301.3	307.2	307.2	307.2	304.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	348.7	354.6	353.6	350.7	348.7
115°	395.1	401.1	399.1	398.1	395.1
117.5°	441.6	449.5	444.5	441.6	438.6
120°	488.0	495.9	488.0	488.0	485.0
122.5°	530.5	540.3	535.4	532.4	530.5
125°	574.9	583.8	580.8	577.9	576.9
127.5°	618.4	629.2	625.3	621.3	618.4
130°	658.9	671.7	669.7	667.8	663.8
132.5°	704.3	714.2	715.2	710.2	707.3
135°	743.8	754.7	756.7	755.7	752.7
137.5°	787.3	796.2	798.2	797.2	793.2
140°	825.8	834.7	839.6	839.6	835.7
142.5°	865.3	874.2	877.2	878.2	874.2
145°	902.9	909.8	915.7	916.7	912.7
147.5°	936.4	945.3	949.3	951.3	947.3
150°	971.0	976.9	980.9	983.9	980.9
152.5°	1001.6	1007.6	1012.5	1016.5	1012.5
155°	1032.3	1035.2	1038.2	1043.1	1040.2
157.5°	1058.9	1060.9	1062.9	1069.8	1064.9
160°	1082.6	1084.6	1085.6	1091.5	1087.6
162.5°	1104.4	1104.4	1105.4	1112.3	1107.3
165°	1123.1	1122.2	1122.2	1129.1	1124.1
167.5°	1139.9	1137.0	1137.0	1143.9	1139.0
170°	1152.8	1149.8	1148.8	1155.7	1149.8
172.5°	1161.7	1158.7	1157.7	1164.6	1158.7
175°	1168.6	1165.6	1163.6	1170.6	1164.6
177.5°	1172.5	1169.6	1167.6	1173.5	1167.6
180°	1170.6	1170.6	1170.6	1170.6	1170.6

(END OF REPORT)