

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: P1029286

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029286
REPORT IS A COMBINATION OF REPORTS P985405 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-D1_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

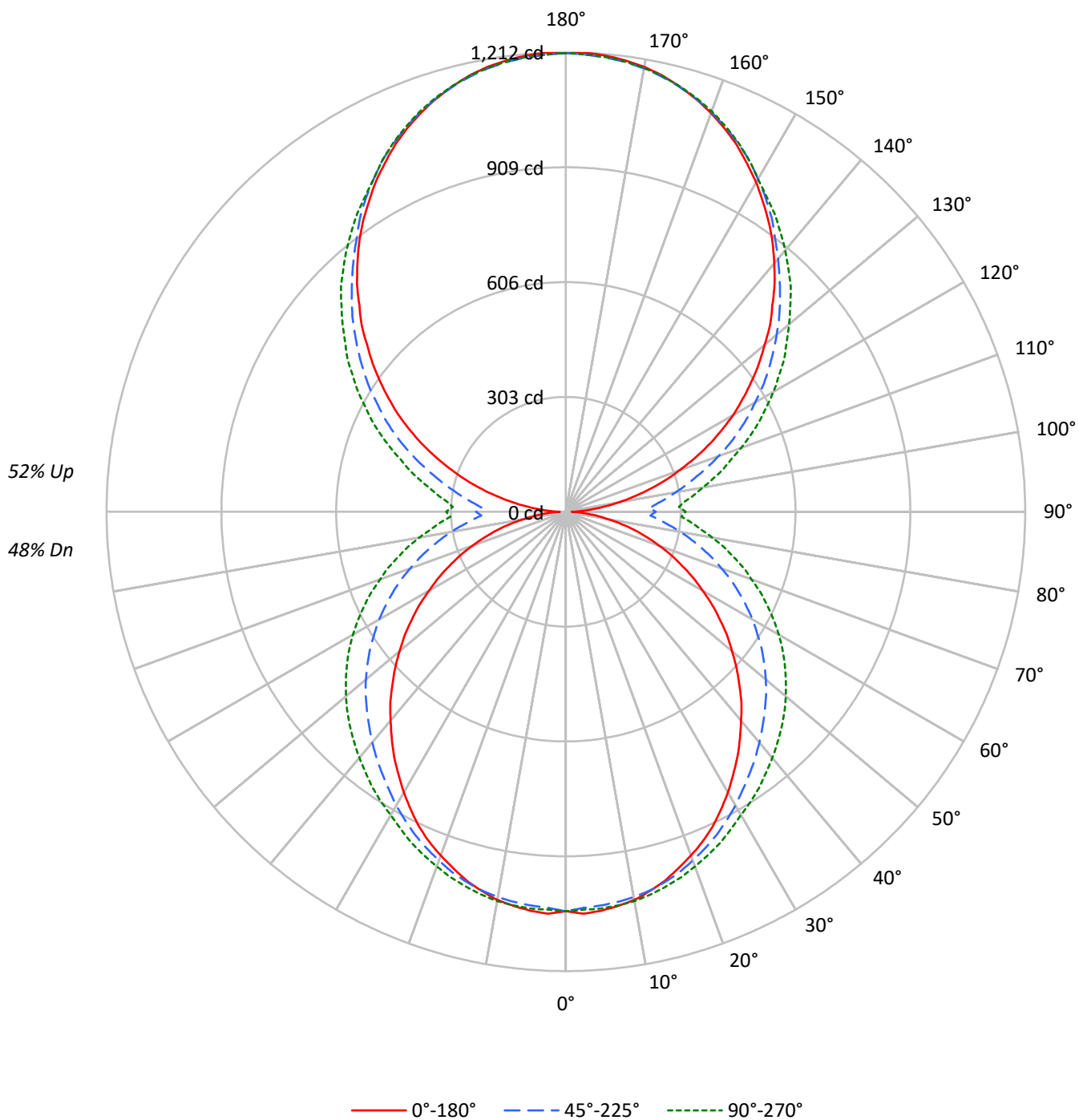
Lumens per Lamp: N/A
Luminaire Lumens: 7408.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1029286

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_4000K

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55
1	96	91	87	83	88	84	80	76	70	67	65	57	55	54	46	44	43
2	87	79	72	66	79	72	66	62	61	56	52	50	46	44	40	37	35
3	79	69	61	54	72	63	56	51	53	48	43	43	39	36	35	32	29
4	72	60	52	46	66	56	48	43	47	41	37	38	34	31	31	27	25
5	66	54	45	39	60	49	42	36	42	36	31	34	30	26	27	24	21
6	60	48	39	33	55	44	37	31	37	31	27	31	26	23	25	21	19
7	56	43	35	29	51	40	33	27	34	28	24	28	23	20	23	19	16
8	52	39	31	26	47	36	29	24	31	25	21	26	21	18	21	17	15
9	48	36	28	23	44	33	26	21	28	22	19	23	19	16	19	16	13
10	45	33	25	20	41	30	24	19	26	20	17	22	17	14	18	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16681	16681	16681
5°	16757	15969	15880
10°	16645	15416	15191
15°	16409	14845	14486
20°	16112	14243	13816
25°	15821	13668	13209
30°	15411	13083	12607
35°	14996	12520	12166
40°	14558	12033	11726
45°	14144	11591	11345
50°	13695	11183	10966
55°	13227	10751	10583
60°	12651	10300	10179
65°	12055	9782	9714
70°	11377	9225	9213
75°	10511	8668	8741
80°	9141	8090	8252
85°	7769	7544	7828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14144 cd/sqm

TEST NUMBER: P1029286

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.3
10°-20°	286.5	3.9
20°-30°	434.1	5.9
30°-40°	528.7	7.1
40°-50°	568.8	7.7
50°-60°	552.4	7.5
60°-70°	482.4	6.5
70°-80°	371.3	5.0
80°-90°	252.1	3.4
90°-100°	246.4	3.3
100°-110°	363.3	4.9
110°-120°	490.0	6.6
120°-130°	581.7	7.9
130°-140°	620.5	8.4
140°-150°	592.8	8.0
150°-160°	494.5	6.7
160°-170°	328.0	4.4
170°-180°	114.6	1.5
0°-30°	820.6	11.1
0°-40°	1349.2	18.2
0°-60°	2470.4	33.3
0°-90°	3576.2	48.3
90°-120°	1099.7	14.8
90°-150°	2894.7	39.1
90°-180°	3832.0	51.7
0°-180°	7408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1057	1052	1043	1052	1051	100
15°	1008	1011	1011	1025	1023	284
25°	916	927	941	959	964	421
35°	790	816	845	878	889	494
45°	648	689	742	790	805	500
55°	496	551	631	686	706	444
65°	339	414	504	567	586	337
75°	188	273	371	437	457	199
85°	55	150	247	312	333	58
90°	16	117	237	296	316	14
95°	65	147	241	299	315	69
105°	227	274	356	412	428	241
115°	415	438	504	549	563	410
125°	598	607	652	691	703	534
135°	770	782	799	830	839	596
145°	934	941	947	957	960	584
155°	1067	1070	1073	1078	1075	491
165°	1161	1160	1160	1167	1162	328
175°	1208	1205	1203	1210	1204	115
180°	1210	1210	1210	1210	1210	

TEST NUMBER: P1029286

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.8	1053.8	1053.8	1053.8	1053.8
2.5°	1061.5	1056.9	1046.2	1053.8	1050.8
5°	1056.9	1052.3	1043.1	1052.3	1050.8
7.5°	1049.2	1046.2	1038.5	1049.2	1047.7
10°	1040.1	1037.0	1032.4	1044.7	1043.1
12.5°	1024.8	1026.3	1023.3	1035.5	1034.0
15°	1008.0	1011.1	1011.1	1024.8	1023.3
17.5°	986.6	992.7	997.3	1011.1	1011.1
20°	965.2	972.9	979.0	995.8	995.8
22.5°	942.3	951.5	960.7	977.5	980.5
25°	916.4	927.1	940.8	959.1	963.7
27.5°	885.8	902.6	917.9	940.8	943.9
30°	855.3	875.1	895.0	919.4	924.0
32.5°	821.7	844.6	869.0	898.0	907.2
35°	789.6	815.6	844.6	878.2	888.9
37.5°	754.5	783.5	820.1	856.8	867.5
40°	719.3	752.9	794.2	833.9	847.6
42.5°	685.7	719.3	768.2	812.5	826.3
45°	647.6	688.8	742.3	789.6	804.9
47.5°	610.9	655.2	716.3	765.2	782.0
50°	572.7	620.1	688.8	740.7	757.5
52.5°	536.1	586.5	659.8	713.2	731.6
55°	496.4	551.3	630.8	685.7	705.6
57.5°	458.2	519.3	598.7	658.3	678.1
60°	416.9	482.6	569.7	627.7	649.1
62.5°	380.3	449.0	536.1	598.7	618.5
65°	339.1	413.9	504.0	566.6	586.5
67.5°	302.4	380.3	471.9	534.5	555.9
70°	262.7	342.1	436.8	502.5	520.8
72.5°	226.0	308.5	404.7	468.9	491.8
75°	187.9	273.4	371.1	436.8	456.7
77.5°	151.2	239.8	339.1	404.7	426.1
80°	114.5	207.7	307.0	371.1	392.5
82.5°	84.0	175.6	276.4	340.6	360.4
85°	55.0	149.7	247.4	311.6	332.9
87.5°	33.6	125.2	223.0	285.6	305.5
90°	16.3	117.2	237.3	296.4	315.7
92.5°	36.2	125.3	219.6	280.1	298.4
95°	65.3	147.3	241.0	299.1	315.3
97.5°	99.6	174.4	267.0	323.6	341.9
100°	140.4	205.1	293.6	350.1	365.9
102.5°	181.8	238.3	324.8	380.8	396.6
105°	227.2	274.5	356.0	411.5	428.3
107.5°	274.2	314.9	391.3	444.3	456.0
110°	317.6	354.3	429.1	478.0	491.8

TEST NUMBER: P1029286

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	366.6	397.1	466.4	512.3	527.0
115°	414.6	437.5	504.2	549.1	562.8
117.5°	461.1	481.5	540.5	583.3	595.5
120°	509.1	523.4	576.3	619.0	632.8
122.5°	553.0	564.7	616.1	654.4	666.0
125°	597.5	606.7	652.4	690.7	703.3
127.5°	642.4	652.1	689.3	723.3	734.0
130°	684.3	696.0	726.0	760.7	768.8
132.5°	731.3	739.9	763.8	793.9	803.0
135°	770.5	781.8	799.1	830.2	839.3
137.5°	815.5	824.7	834.4	862.4	869.0
140°	855.3	863.0	871.2	895.6	900.7
142.5°	896.1	903.8	906.9	926.2	929.8
145°	933.5	940.6	946.7	957.0	960.5
147.5°	968.2	977.4	981.5	985.0	985.5
150°	1003.9	1010.1	1014.1	1017.2	1014.1
152.5°	1035.6	1041.7	1046.8	1050.9	1046.8
155°	1067.2	1070.3	1073.4	1078.5	1075.4
157.5°	1094.8	1096.9	1098.9	1106.1	1100.9
160°	1119.3	1121.4	1122.4	1128.5	1124.4
162.5°	1141.8	1141.8	1142.8	1150.0	1144.9
165°	1161.2	1160.2	1160.2	1167.3	1162.2
167.5°	1178.6	1175.5	1175.5	1182.6	1177.5
170°	1191.8	1188.8	1187.8	1194.9	1188.8
172.5°	1201.0	1198.0	1196.9	1204.1	1198.0
175°	1208.2	1205.1	1203.1	1210.2	1204.1
177.5°	1212.3	1209.2	1207.2	1213.3	1207.2
180°	1210.2	1210.2	1210.2	1210.2	1210.2

(END OF REPORT)