

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: P1029284

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029284
REPORT IS A COMBINATION OF REPORTS P985403 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_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

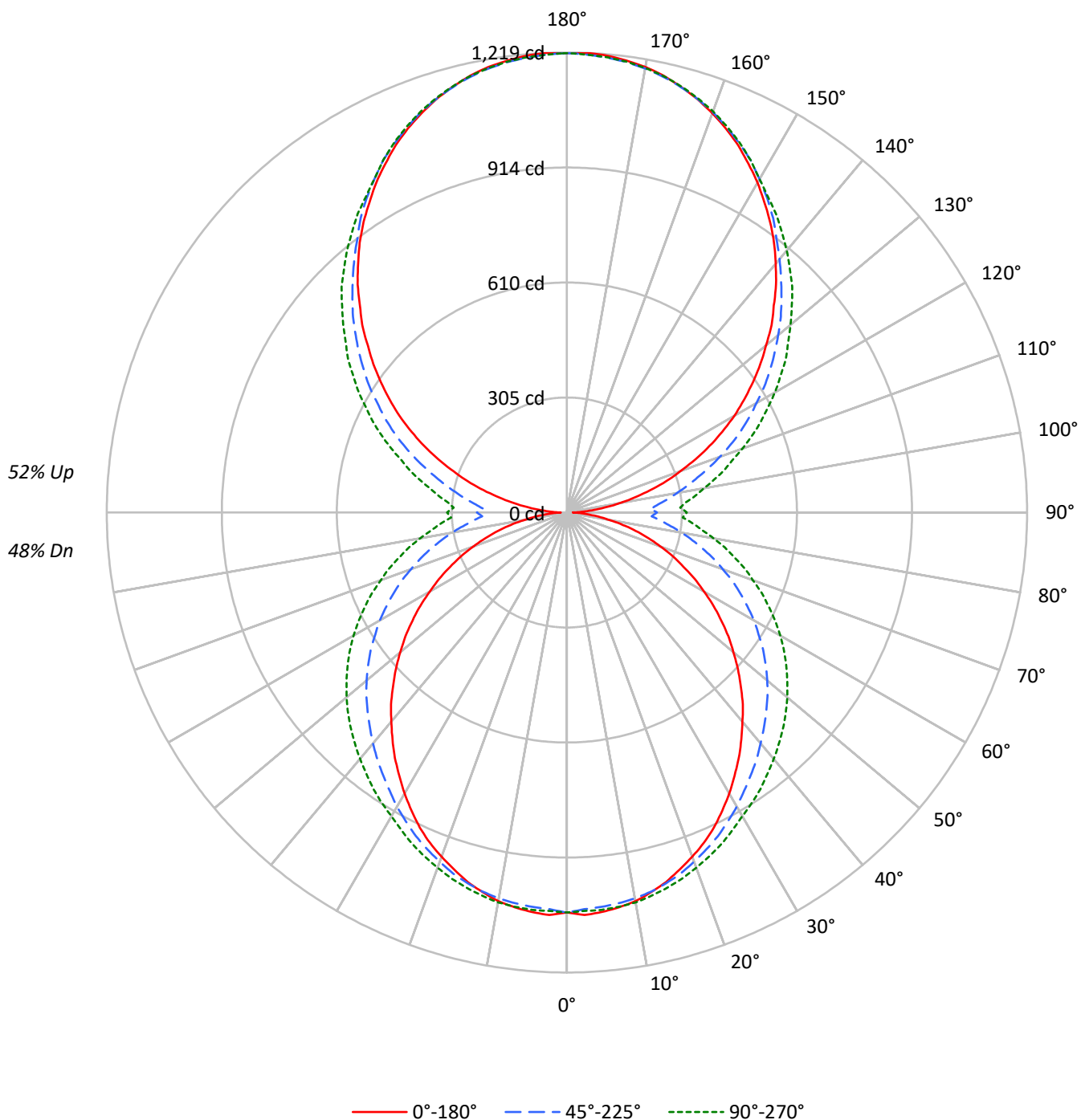
Lumens per Lamp: N/A
Luminaire Lumens: 7450.9 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82		68	68	68		55
1	96	91	87	83	88	84	80	76	70	67	65		57	55	54		46
2	87	79	72	66	79	72	66	62	61	56	52		50	46	44		40
3	79	69	61	54	72	63	56	51	53	48	43		43	39	36		35
4	72	60	52	46	66	56	48	43	47	41	37		38	34	31		31
5	66	54	45	39	60	49	42	36	42	36	31		34	30	26		27
6	60	48	39	33	55	44	37	31	37	31	27		31	26	23		25
7	56	43	35	29	51	40	33	27	34	28	24		28	23	20		23
8	52	39	31	26	47	36	29	24	31	25	21		26	21	18		21
9	48	36	28	23	44	33	26	21	28	22	19		23	19	16		19
10	45	33	25	20	41	30	24	19	26	20	17		22	17	14		18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16776	16776	16776
5°	16852	16061	15970
10°	16739	15504	15278
15°	16503	14928	14568
20°	16206	14325	13895
25°	15911	13746	13284
30°	15499	13158	12680
35°	15081	12591	12236
40°	14643	12101	11794
45°	14224	11657	11410
50°	13774	11247	11030
55°	13302	10812	10643
60°	12723	10358	10237
65°	12122	9838	9768
70°	11442	9278	9266
75°	10567	8720	8791
80°	9197	8135	8300
85°	7811	7586	7873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14224 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.3
10°-20°	288.2	3.9
20°-30°	436.6	5.9
30°-40°	531.7	7.1
40°-50°	572.0	7.7
50°-60°	555.5	7.5
60°-70°	485.2	6.5
70°-80°	373.4	5.0
80°-90°	253.6	3.4
90°-100°	247.8	3.3
100°-110°	365.4	4.9
110°-120°	492.8	6.6
120°-130°	585.1	7.9
130°-140°	624.2	8.4
140°-150°	596.3	8.0
150°-160°	497.4	6.7
160°-170°	329.9	4.4
170°-180°	115.3	1.5
0°-30°	825.2	11.1
0°-40°	1356.9	18.2
0°-60°	2484.5	33.3
0°-90°	3596.6	48.3
90°-120°	1106.1	14.8
90°-150°	2911.6	39.1
90°-180°	3854.0	51.7
0°-180°	7450.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1058	1049	1058	1057	101
15°	1014	1017	1017	1031	1029	286
25°	922	932	946	965	969	424
35°	794	820	849	883	894	496
45°	651	693	746	794	810	503
55°	499	554	634	690	710	447
65°	341	416	507	570	590	339
75°	189	275	373	439	459	200
85°	55	150	249	313	335	58
90°	16	118	239	298	318	14
95°	66	148	242	301	317	69
105°	229	276	358	414	431	242
115°	417	440	507	552	566	412
125°	601	610	656	695	708	538
135°	775	786	804	835	844	599
145°	939	946	952	962	966	587
155°	1074	1077	1080	1085	1082	494
165°	1168	1167	1167	1174	1169	329
175°	1215	1212	1210	1217	1211	115
180°	1217	1217	1217	1217	1217	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1067.5	1062.9	1052.2	1059.8	1056.8
5°	1062.9	1058.3	1049.1	1058.3	1056.8
7.5°	1055.2	1052.2	1044.5	1055.2	1053.7
10°	1046.0	1042.9	1038.3	1050.6	1049.1
12.5°	1030.7	1032.2	1029.1	1041.4	1039.9
15°	1013.8	1016.8	1016.8	1030.7	1029.1
17.5°	992.3	998.4	1003.0	1016.8	1016.8
20°	970.8	978.4	984.6	1001.5	1001.5
22.5°	947.7	956.9	966.1	983.0	986.1
25°	921.6	932.4	946.2	964.6	969.2
27.5°	890.9	907.8	923.1	946.2	949.3
30°	860.2	880.1	900.1	924.7	929.3
32.5°	826.4	849.4	874.0	903.2	912.4
35°	794.1	820.2	849.4	883.2	894.0
37.5°	758.8	788.0	824.8	861.7	872.5
40°	723.5	757.3	798.7	838.7	852.5
42.5°	689.7	723.5	772.6	817.2	831.0
45°	651.3	692.7	746.5	794.1	809.5
47.5°	614.4	658.9	720.4	769.5	786.4
50°	576.0	623.6	692.7	745.0	761.9
52.5°	539.1	589.8	663.6	717.3	735.7
55°	499.2	554.5	634.4	689.7	709.6
57.5°	460.8	522.2	602.1	662.0	682.0
60°	419.3	485.4	572.9	631.3	652.8
62.5°	382.5	451.6	539.1	602.1	622.1
65°	341.0	416.3	506.9	569.9	589.8
67.5°	304.1	382.5	474.6	537.6	559.1
70°	264.2	344.1	439.3	505.3	523.8
72.5°	227.3	310.3	407.0	471.6	494.6
75°	188.9	274.9	373.3	439.3	459.3
77.5°	152.1	241.2	341.0	407.0	428.5
80°	115.2	208.9	308.7	373.3	394.8
82.5°	84.5	176.6	278.0	342.5	362.5
85°	55.3	150.5	248.8	313.3	334.8
87.5°	33.8	126.0	224.3	287.2	307.2
90°	16.4	117.8	238.8	298.1	317.5
92.5°	36.4	126.0	220.7	281.7	300.2
95°	65.7	148.2	242.3	300.7	317.1
97.5°	100.2	175.4	268.6	325.4	343.9
100°	141.3	206.3	295.4	352.2	368.0
102.5°	182.8	239.7	326.7	383.0	398.9
105°	228.6	276.2	358.1	414.0	430.9
107.5°	275.8	316.7	393.5	446.9	458.6
110°	319.4	356.4	431.6	480.8	494.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	368.7	399.5	469.2	515.2	530.0
115°	417.0	440.1	507.2	552.2	566.0
117.5°	463.8	484.3	543.7	586.7	598.9
120°	512.1	526.5	579.7	622.7	636.5
122.5°	556.3	568.0	619.8	658.1	670.0
125°	601.0	610.2	656.3	694.7	707.5
127.5°	646.2	655.9	693.3	727.6	738.3
130°	688.3	700.1	730.3	765.2	773.3
132.5°	735.6	744.2	768.4	798.5	807.8
135°	775.1	786.4	803.8	835.1	844.2
137.5°	820.3	829.5	839.3	867.4	874.1
140°	860.3	868.1	876.3	900.8	906.0
142.5°	901.4	909.2	912.3	931.7	935.3
145°	939.0	946.2	952.3	962.5	966.1
147.5°	973.9	983.1	987.3	990.8	991.3
150°	1009.9	1016.0	1020.1	1023.2	1020.1
152.5°	1041.7	1047.9	1053.0	1057.1	1053.0
155°	1073.5	1076.6	1079.7	1084.8	1081.8
157.5°	1101.3	1103.3	1105.4	1112.6	1107.4
160°	1125.9	1128.0	1129.0	1135.2	1131.1
162.5°	1148.5	1148.5	1149.6	1156.8	1151.6
165°	1168.1	1167.0	1167.0	1174.2	1169.1
167.5°	1185.5	1182.4	1182.4	1189.6	1184.5
170°	1198.9	1195.8	1194.8	1202.0	1195.8
172.5°	1208.1	1205.0	1204.0	1211.2	1205.0
175°	1215.3	1212.2	1210.2	1217.4	1211.2
177.5°	1219.4	1216.3	1214.3	1220.5	1214.3
180°	1217.4	1217.4	1217.4	1217.4	1217.4

(END OF REPORT)