

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: P1029287

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029287
REPORT IS A COMBINATION OF REPORTS P985406 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_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

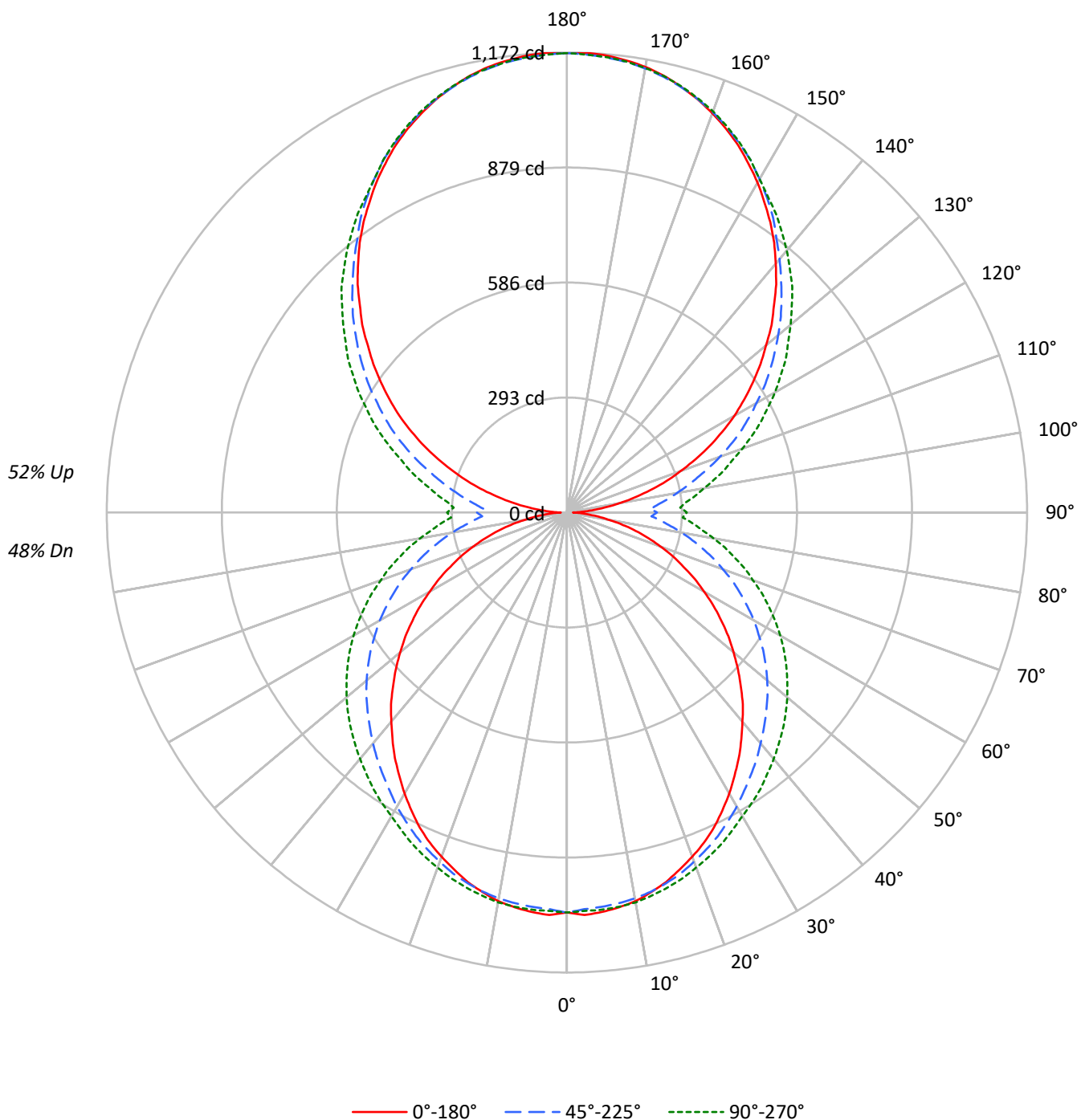
Lumens per Lamp: N/A
Luminaire Lumens: 7164.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1029287

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_5000K

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°	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

TEST NUMBER: P1029287

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.3
10°-20°	277.0	3.9
20°-30°	419.8	5.9
30°-40°	511.2	7.1
40°-50°	550.0	7.7
50°-60°	534.1	7.5
60°-70°	466.4	6.5
70°-80°	359.0	5.0
80°-90°	243.8	3.4
90°-100°	238.3	3.3
100°-110°	351.3	4.9
110°-120°	473.9	6.6
120°-130°	562.6	7.9
130°-140°	600.2	8.4
140°-150°	573.4	8.0
150°-160°	478.3	6.7
160°-170°	317.2	4.4
170°-180°	110.9	1.5
0°-30°	793.4	11.1
0°-40°	1304.6	18.2
0°-60°	2388.7	33.3
0°-90°	3457.9	48.3
90°-120°	1063.5	14.8
90°-150°	2799.7	39.1
90°-180°	3706.0	51.7
0°-180°	7164.0	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	113	230	287	305	14
95°	63	142	233	289	305	67
105°	220	266	344	398	414	233
115°	401	423	488	531	544	396
125°	578	587	631	668	680	517
135°	745	756	773	803	812	576
145°	903	910	916	926	929	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	

TEST NUMBER: P1029287

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_5000K

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°	15.8	113.2	229.5	286.6	305.3
92.5°	35.0	121.2	212.2	270.8	288.6
95°	63.2	142.4	233.0	289.1	304.9
97.5°	96.2	168.6	258.3	312.9	330.7
100°	135.8	198.4	284.0	338.6	353.9
102.5°	175.8	230.5	314.1	368.3	383.5
105°	219.8	265.5	344.3	398.0	414.2
107.5°	265.2	304.6	378.5	429.7	440.9
110°	307.2	342.6	415.0	462.3	475.5

TEST NUMBER: P1029287

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	354.6	384.1	451.1	495.4	509.7
115°	401.0	423.3	487.7	531.0	544.3
117.5°	446.0	465.7	522.8	564.2	575.9
120°	492.4	506.2	557.4	598.8	612.0
122.5°	534.9	546.2	595.9	632.8	644.2
125°	577.9	586.8	631.0	668.0	680.3
127.5°	621.4	630.7	666.6	699.6	710.0
130°	661.9	673.2	702.2	735.7	743.5
132.5°	707.3	715.7	738.8	767.8	776.7
135°	745.3	756.2	772.9	803.0	811.8
137.5°	788.8	797.7	807.1	834.1	840.5
140°	827.3	834.7	842.6	866.2	871.1
142.5°	866.8	874.2	877.2	895.9	899.3
145°	902.9	909.8	915.7	925.6	928.9
147.5°	936.4	945.3	949.3	952.8	953.2
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)