

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: P1029291

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029291
REPORT IS A COMBINATION OF REPORTS P985416 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-D_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

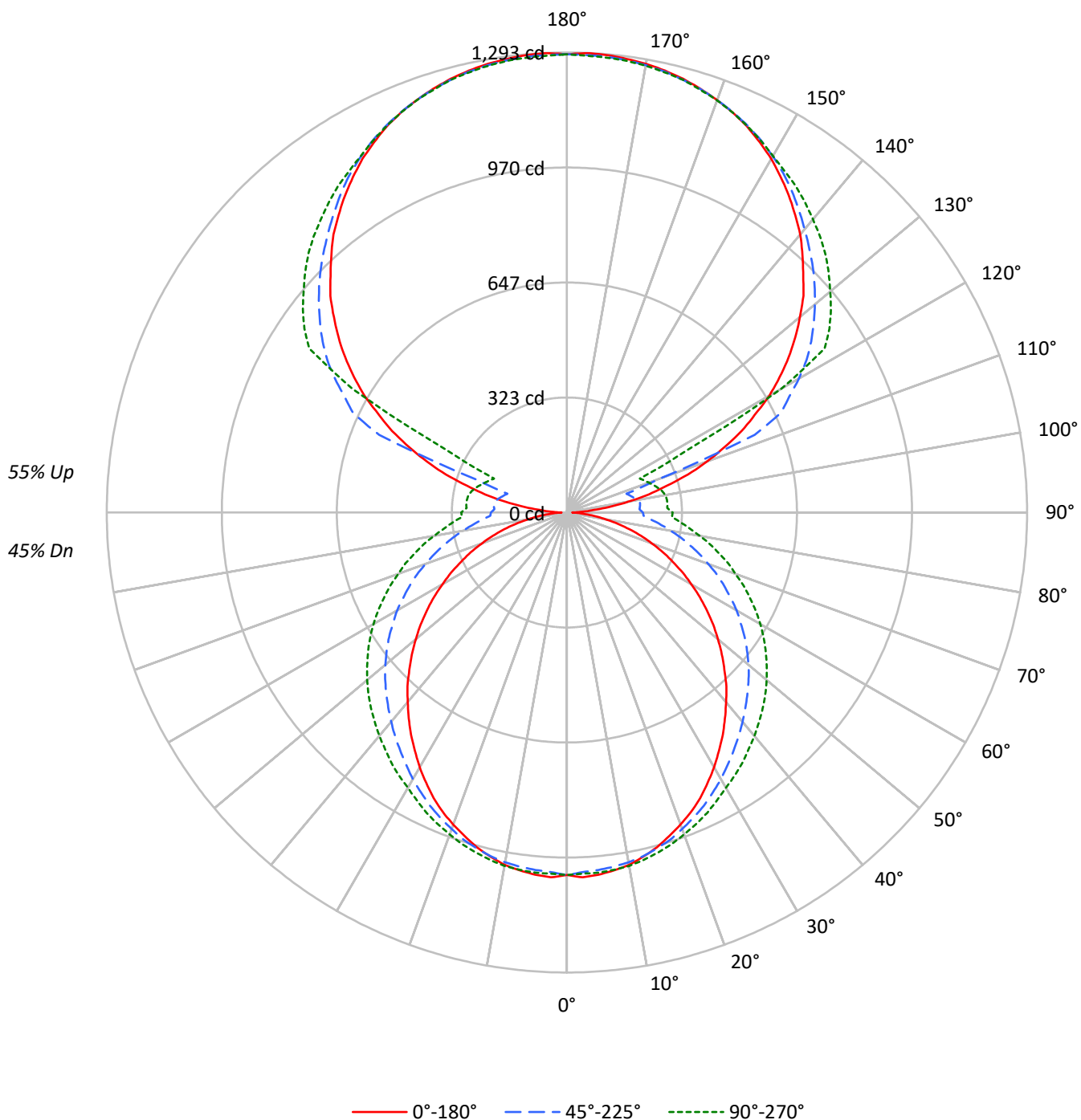
Lumens per Lamp: N/A
Luminaire Lumens: 7666.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10
RCR																	
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52
1	95	90	86	82	87	83	79	76	69	66	63	56	54	52	43	42	41
2	86	78	72	66	79	72	66	61	59	55	51	48	45	42	37	35	33
3	78	68	60	54	71	63	56	50	52	47	43	42	38	35	33	30	28
4	71	60	52	45	65	55	48	42	46	40	36	37	33	30	29	26	24
5	65	53	45	39	59	49	42	36	41	35	31	33	29	25	26	23	20
6	60	48	39	33	55	44	36	31	37	31	26	30	25	22	23	20	18
7	56	43	35	29	51	39	32	27	33	27	23	27	23	19	21	18	16
8	51	39	31	25	47	36	29	24	30	24	20	25	20	17	20	16	14
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	11

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.3
10°-20°	277.0	3.6
20°-30°	419.8	5.5
30°-40°	511.2	6.7
40°-50°	550.0	7.2
50°-60°	534.1	7.0
60°-70°	466.4	6.1
70°-80°	359.0	4.7
80°-90°	242.7	3.2
90°-100°	208.3	2.7
100°-110°	279.5	3.6
110°-120°	499.9	6.5
120°-130°	741.0	9.7
130°-140°	758.4	9.9
140°-150°	690.7	9.0
150°-160°	552.7	7.2
160°-170°	356.2	4.6
170°-180°	122.6	1.6
0°-30°	793.4	10.3
0°-40°	1304.6	17.0
0°-60°	2388.7	31.2
0°-90°	3456.8	45.1
90°-120°	987.7	12.9
90°-150°	3177.7	41.5
90°-180°	4209.0	54.9
0°-180°	7666.0	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	112	214	277	297	14
95°	72	111	206	267	284	81
105°	291	362	184	246	266	311
115°	542	574	664	276	226	533
125°	761	773	838	884	900	679
135°	939	954	977	1017	1027	726
145°	1088	1087	1102	1118	1120	681
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°	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°	15.7	111.6	213.5	277.3	296.9
92.5°	36.6	111.2	204.0	263.4	282.2
95°	72.4	111.0	206.1	266.9	283.8
97.5°	119.3	106.4	207.0	264.4	283.2
100°	175.3	102.3	200.8	262.9	281.0
102.5°	235.4	282.2	192.3	255.7	274.7
105°	290.7	361.5	183.8	245.8	265.7
107.5°	356.9	415.6	175.4	235.9	255.8
110°	418.7	467.8	270.9	225.0	244.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	478.4	518.8	570.9	216.5	235.6
115°	541.8	573.9	663.6	276.4	225.6
117.5°	595.2	625.7	703.6	614.7	385.2
120°	656.7	676.6	752.5	805.1	695.5
122.5°	708.9	725.3	798.6	844.1	858.3
125°	760.7	772.8	837.7	884.1	900.2
127.5°	809.1	820.7	874.4	920.8	935.0
130°	854.8	868.2	909.4	955.1	966.0
132.5°	901.4	912.0	944.3	986.7	997.6
135°	939.0	953.9	977.0	1017.4	1027.4
137.5°	980.0	991.2	1007.9	1045.2	1052.8
140°	1020.1	1026.1	1039.3	1071.3	1075.4
142.5°	1053.6	1058.7	1070.8	1095.9	1098.7
145°	1087.6	1086.6	1102.5	1117.9	1120.5
147.5°	1118.3	1115.5	1131.4	1137.5	1138.2
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)