

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: P1029297

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029297
REPORT IS A COMBINATION OF REPORTS P985427 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-F_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

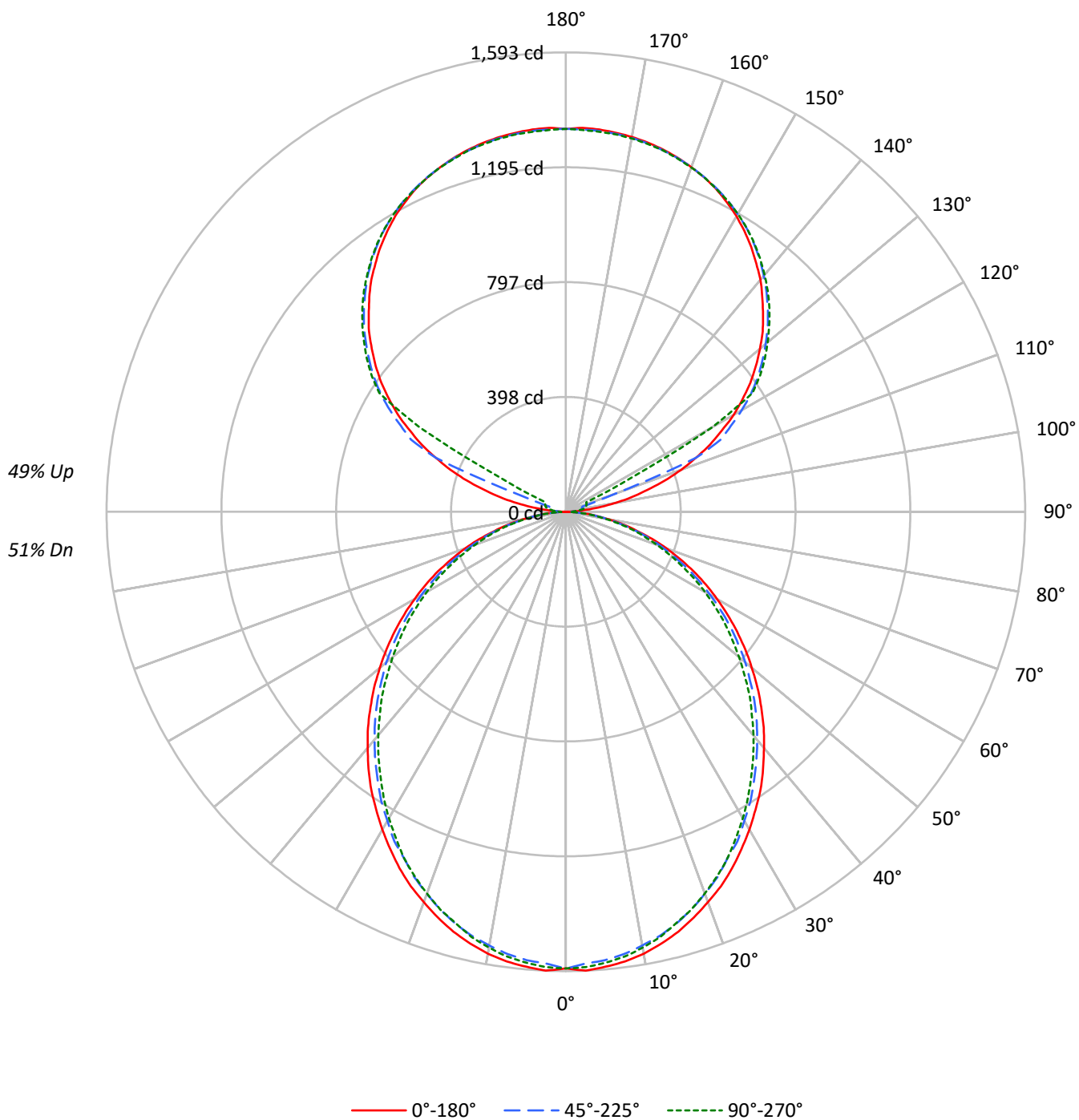
Lumens per Lamp: N/A
Luminaire Lumens: 7924.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1029297

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-F_2700K

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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	57	57	57
1	98	94	90	86	90	87	83	80	74	71	69	61	60	58	50	49	48	48	48	43
2	89	82	76	70	82	76	70	66	64	60	57	54	51	49	44	42	40	40	40	36
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	34	34	34	30
4	74	64	56	50	68	59	52	47	50	45	41	43	38	35	35	32	30	30	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	28	26	26	26	23
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	25	23	23	23	20
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20	20	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	18	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	16	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15	15	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25067	25067	25067
5°	25108	23894	23724
10°	24904	22805	22353
15°	24540	21709	20909
20°	24047	20514	19542
25°	23556	19269	18178
30°	22937	18098	16746
35°	22355	16861	15339
40°	21634	15642	14009
45°	20918	14433	12705
50°	20138	13201	11353
55°	19313	11886	10071
60°	18389	10461	8739
65°	17377	9013	7339
70°	16089	7428	5926
75°	14310	5728	4576
80°	12159	3892	2945
85°	8814	1811	1253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20918 cd/sqm

TEST NUMBER: P1029297

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	1.9
10°-20°	419.4	5.3
20°-30°	616.3	7.8
30°-40°	715.8	9.0
40°-50°	714.9	9.0
50°-60°	623.3	7.9
60°-70°	460.8	5.8
70°-80°	260.7	3.3
80°-90°	71.1	0.9
90°-100°	43.8	0.6
100°-110°	163.2	2.1
110°-120°	432.9	5.5
120°-130°	718.0	9.1
130°-140°	762.6	9.6
140°-150°	708.8	8.9
150°-160°	569.8	7.2
160°-170°	367.2	4.6
170°-180°	126.4	1.6
0°-30°	1184.7	15.0
0°-40°	1900.5	24.0
0°-60°	3238.7	40.9
0°-90°	4031.3	50.9
90°-120°	639.9	8.1
90°-150°	2829.3	35.7
90°-180°	3893.0	49.1
0°-180°	7924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1584	1578	1561	1573	1570	150
15°	1508	1498	1479	1485	1477	425
25°	1364	1352	1326	1329	1326	628
35°	1177	1162	1138	1128	1121	735
45°	958	947	924	908	901	739
55°	725	716	697	679	672	648
65°	489	480	464	451	443	483
75°	256	253	245	236	239	273
85°	62	61	59	55	53	70
90°	1	12	19	24	26	7
95°	62	31	38	42	41	74
105°	292	321	59	69	73	312
115°	552	569	593	148	79	544
125°	781	794	812	819	822	697
135°	967	982	991	1000	998	747
145°	1121	1120	1137	1143	1138	701
155°	1235	1226	1238	1243	1236	569
165°	1301	1295	1298	1305	1298	368
175°	1331	1324	1326	1333	1323	127
180°	1328	1328	1328	1328	1328	

TEST NUMBER: P1029297

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.6	1583.6	1583.6	1583.6	1583.6
2.5°	1592.8	1585.1	1568.4	1583.6	1580.6
5°	1583.6	1577.5	1560.8	1573.0	1569.9
7.5°	1573.0	1563.8	1547.1	1559.3	1556.2
10°	1556.2	1545.6	1527.3	1539.5	1534.9
12.5°	1533.4	1524.2	1506.0	1513.6	1510.5
15°	1507.5	1498.4	1478.6	1484.7	1477.0
17.5°	1475.5	1466.4	1446.6	1454.2	1446.6
20°	1440.5	1431.4	1410.0	1414.6	1408.5
22.5°	1405.5	1391.8	1372.0	1372.0	1368.9
25°	1364.4	1352.2	1326.3	1329.3	1326.3
27.5°	1318.7	1308.0	1288.2	1283.7	1276.0
30°	1273.0	1260.8	1238.0	1233.4	1227.3
32.5°	1224.3	1215.1	1190.8	1181.6	1175.5
35°	1177.1	1161.8	1137.5	1128.3	1120.7
37.5°	1123.8	1110.1	1085.7	1075.0	1067.4
40°	1068.9	1056.8	1032.4	1018.7	1012.6
42.5°	1015.7	1003.5	979.1	963.9	954.7
45°	957.8	947.1	924.3	907.5	901.4
47.5°	901.4	890.8	866.4	849.7	840.5
50°	842.1	834.4	813.1	791.8	784.2
52.5°	784.2	773.5	753.7	737.0	726.3
55°	724.8	715.7	697.4	679.1	671.5
57.5°	665.4	657.8	638.0	619.7	613.7
60°	606.0	600.0	578.6	561.9	557.3
62.5°	548.2	537.5	522.3	507.1	501.0
65°	488.8	479.7	464.4	450.7	443.1
67.5°	427.9	420.3	406.6	395.9	389.8
70°	371.5	365.5	351.7	341.1	335.0
72.5°	313.7	307.6	300.0	289.3	284.7
75°	255.8	252.8	245.2	236.0	239.1
77.5°	204.0	198.0	194.9	190.3	185.8
80°	152.3	150.7	147.7	143.1	140.1
82.5°	103.5	103.5	102.0	95.9	95.9
85°	62.4	60.9	59.4	54.8	53.3
87.5°	27.4	24.4	21.3	16.7	15.2
90°	1.0	11.5	19.2	24.0	25.9
92.5°	24.0	20.2	23.1	25.0	25.9
95°	62.5	30.7	37.5	42.3	41.3
97.5°	112.4	33.6	49.0	51.9	52.8
100°	170.1	38.4	54.8	62.5	64.4
102.5°	233.5	231.5	56.7	67.3	70.1
105°	292.1	320.9	58.6	69.2	73.0
107.5°	360.3	384.3	60.5	71.1	74.9
110°	425.6	445.8	168.1	72.1	75.9

TEST NUMBER: P1029297

CATALOG NUMBER: S122DIW-B1005D970UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	487.1	504.4	488.1	74.0	76.9
115°	552.5	568.8	592.8	148.0	78.8
117.5°	609.1	628.4	644.7	507.3	255.6
120°	672.6	687.0	704.3	715.8	586.1
122.5°	726.4	741.7	760.9	766.7	767.7
125°	781.1	793.6	811.9	818.6	821.5
127.5°	831.1	844.5	858.9	868.6	869.5
130°	878.2	893.5	904.1	914.7	913.7
132.5°	926.2	938.7	949.3	957.9	956.9
135°	966.6	981.9	990.6	1000.2	998.3
137.5°	1008.8	1020.4	1030.0	1039.6	1036.7
140°	1050.1	1057.8	1068.4	1077.0	1072.2
142.5°	1084.7	1091.5	1103.9	1111.6	1106.8
145°	1121.2	1120.3	1136.6	1143.3	1138.5
147.5°	1152.9	1150.1	1166.4	1171.2	1167.4
150°	1183.7	1177.0	1192.3	1198.1	1193.3
152.5°	1209.6	1201.9	1216.4	1222.1	1215.4
155°	1234.6	1226.0	1237.5	1243.3	1235.6
157.5°	1254.8	1247.1	1255.7	1262.5	1254.8
160°	1272.1	1266.3	1272.1	1277.8	1271.1
162.5°	1287.5	1281.7	1286.5	1293.2	1284.6
165°	1300.9	1295.1	1298.0	1304.7	1298.0
167.5°	1311.5	1305.7	1308.6	1315.3	1306.7
170°	1320.1	1314.4	1316.3	1323.0	1314.4
172.5°	1325.9	1320.1	1322.0	1328.8	1320.1
175°	1330.7	1324.0	1325.9	1332.6	1323.0
177.5°	1332.6	1325.9	1326.8	1333.6	1324.9
180°	1327.8	1327.8	1327.8	1327.8	1327.8

(END OF REPORT)