

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: P1029298

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029298
REPORT IS A COMBINATION OF REPORTS P985428 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_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

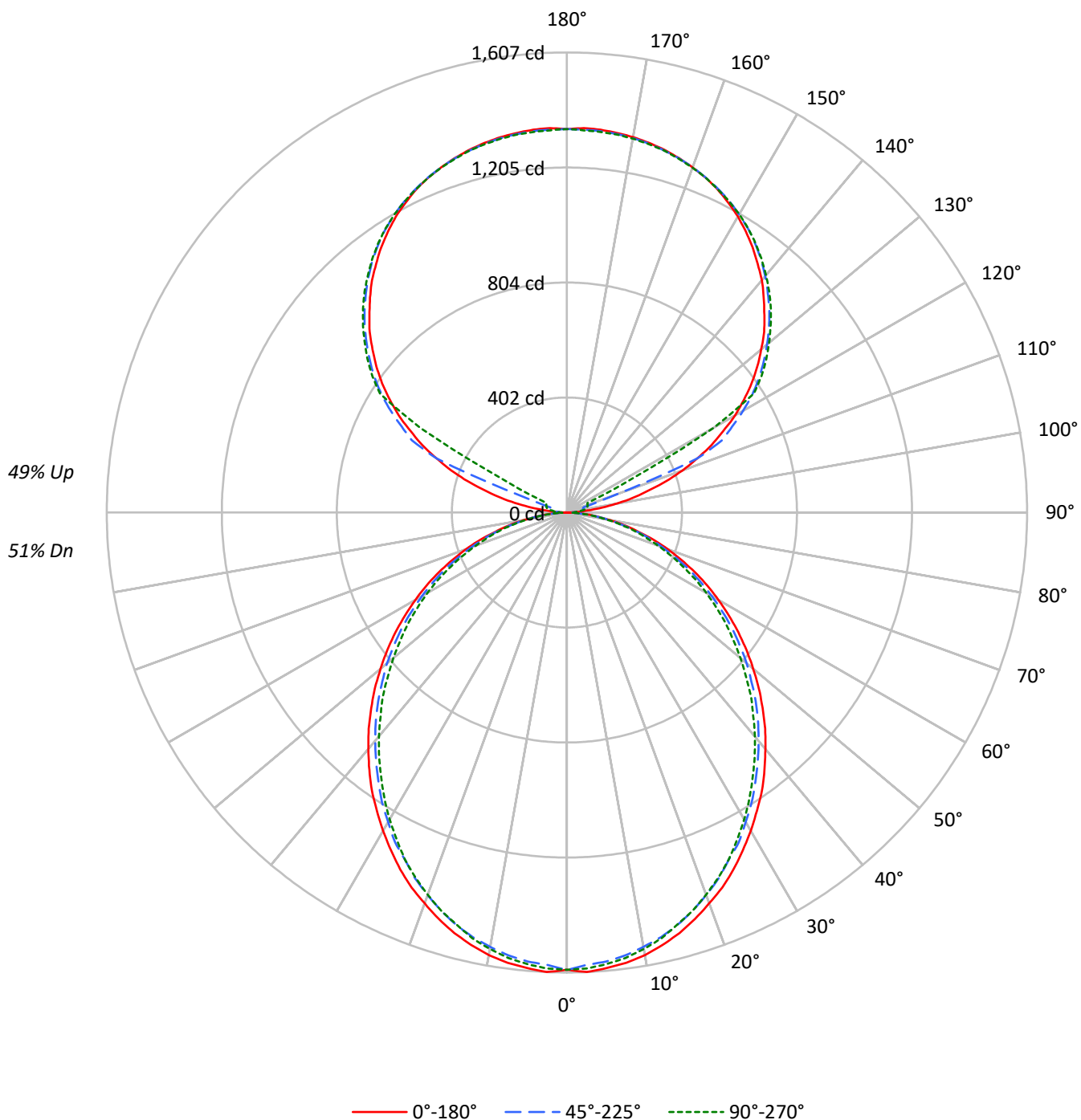
Lumens per Lamp: N/A
Luminaire Lumens: 7993.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	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°	25286	25286	25286
5°	25327	24101	23931
10°	25120	23004	22546
15°	24753	21896	21092
20°	24255	20693	19713
25°	23759	19436	18336
30°	23137	18254	16892
35°	22549	17008	15473
40°	21822	15778	14131
45°	21100	14558	12816
50°	20312	13317	11451
55°	19481	11990	10160
60°	18550	10553	8816
65°	17526	9093	7403
70°	16232	7493	5978
75°	14433	5777	4615
80°	12263	3926	2971
85°	8899	1826	1265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	1.9
10°-20°	423.0	5.3
20°-30°	621.6	7.8
30°-40°	722.0	9.0
40°-50°	721.1	9.0
50°-60°	628.8	7.9
60°-70°	464.8	5.8
70°-80°	263.0	3.3
80°-90°	71.8	0.9
90°-100°	44.2	0.6
100°-110°	164.6	2.1
110°-120°	436.7	5.5
120°-130°	724.2	9.1
130°-140°	769.3	9.6
140°-150°	715.0	8.9
150°-160°	574.8	7.2
160°-170°	370.4	4.6
170°-180°	127.5	1.6
0°-30°	1195.0	15.0
0°-40°	1917.0	24.0
0°-60°	3266.8	40.9
0°-90°	4066.4	50.9
90°-120°	645.5	8.1
90°-150°	2853.9	35.7
90°-180°	3927.0	49.1
0°-180°	7993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1597	1591	1574	1587	1584	152
15°	1521	1511	1491	1498	1490	428
25°	1376	1364	1338	1341	1338	633
35°	1187	1172	1147	1138	1130	741
45°	966	955	932	915	909	746
55°	731	722	704	685	677	654
65°	493	484	468	455	447	487
75°	258	255	247	238	241	275
85°	63	61	60	55	54	70
90°	1	12	19	24	26	7
95°	63	31	38	43	42	75
105°	295	324	59	70	74	315
115°	557	574	598	149	80	549
125°	788	800	819	826	829	703
135°	975	990	999	1009	1007	753
145°	1131	1130	1146	1153	1148	707
155°	1245	1237	1248	1254	1246	574
165°	1312	1306	1309	1316	1309	371
175°	1342	1336	1338	1344	1335	128
180°	1339	1339	1339	1339	1339	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.4	1597.4	1597.4	1597.4	1597.4
2.5°	1606.6	1598.9	1582.0	1597.4	1594.3
5°	1597.4	1591.2	1574.3	1586.6	1583.6
7.5°	1586.6	1577.4	1560.5	1572.8	1569.7
10°	1569.7	1559.0	1540.6	1552.8	1548.2
12.5°	1546.7	1537.5	1519.1	1526.7	1523.7
15°	1520.6	1511.4	1491.4	1497.5	1489.9
17.5°	1488.3	1479.1	1459.1	1466.8	1459.1
20°	1453.0	1443.8	1422.3	1426.9	1420.8
22.5°	1417.7	1403.9	1383.9	1383.9	1380.8
25°	1376.2	1363.9	1337.8	1340.9	1337.8
27.5°	1330.1	1319.4	1299.4	1294.8	1287.1
30°	1284.1	1271.8	1248.7	1244.1	1238.0
32.5°	1234.9	1225.7	1201.1	1191.9	1185.8
35°	1187.3	1171.9	1147.4	1138.1	1130.5
37.5°	1133.5	1119.7	1095.1	1084.4	1076.7
40°	1078.2	1065.9	1041.4	1027.5	1021.4
42.5°	1024.5	1012.2	987.6	972.3	963.0
45°	966.1	955.4	932.3	915.4	909.3
47.5°	909.3	898.5	874.0	857.1	847.8
50°	849.4	841.7	820.2	798.7	791.0
52.5°	791.0	780.3	760.3	743.4	732.6
55°	731.1	721.9	703.5	685.0	677.4
57.5°	671.2	663.5	643.6	625.1	619.0
60°	611.3	605.2	583.7	566.8	562.2
62.5°	552.9	542.2	526.8	511.5	505.3
65°	493.0	483.8	468.5	454.6	447.0
67.5°	431.6	423.9	410.1	399.3	393.2
70°	374.8	368.6	354.8	344.1	337.9
72.5°	316.4	310.3	302.6	291.8	287.2
75°	258.0	255.0	247.3	238.1	241.1
77.5°	205.8	199.7	196.6	192.0	187.4
80°	153.6	152.1	149.0	144.4	141.3
82.5°	104.4	104.4	102.9	96.8	96.8
85°	63.0	61.4	59.9	55.3	53.8
87.5°	27.6	24.6	21.5	16.9	15.4
90°	1.0	11.6	19.4	24.2	26.2
92.5°	24.2	20.4	23.3	25.2	26.2
95°	63.0	31.0	37.8	42.6	41.7
97.5°	113.4	33.9	49.4	52.3	53.3
100°	171.5	38.8	55.2	63.0	64.9
102.5°	235.5	233.6	57.2	67.8	70.7
105°	294.6	323.7	59.1	69.8	73.7
107.5°	363.4	387.7	61.1	71.7	75.6
110°	429.3	449.7	169.6	72.7	76.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	491.4	508.8	492.3	74.6	77.5
115°	557.3	573.8	598.0	149.3	79.5
117.5°	614.5	633.8	650.3	511.7	257.8
120°	678.4	693.0	710.4	722.0	591.2
122.5°	732.7	748.2	767.6	773.4	774.4
125°	787.9	800.5	819.0	825.7	828.6
127.5°	838.3	851.9	866.4	876.1	877.1
130°	885.8	901.3	912.0	922.7	921.7
132.5°	934.3	946.9	957.5	966.3	965.3
135°	975.0	990.5	999.2	1008.9	1007.0
137.5°	1017.6	1029.3	1039.0	1048.6	1045.7
140°	1059.3	1067.1	1077.7	1086.4	1081.6
142.5°	1094.2	1101.0	1113.6	1121.3	1116.5
145°	1131.0	1130.1	1146.5	1153.3	1148.5
147.5°	1163.0	1160.1	1176.6	1181.4	1177.5
150°	1194.0	1187.2	1202.7	1208.6	1203.7
152.5°	1220.2	1212.4	1227.0	1232.8	1226.0
155°	1245.4	1236.7	1248.3	1254.1	1246.4
157.5°	1265.7	1258.0	1266.7	1273.5	1265.7
160°	1283.2	1277.4	1283.2	1289.0	1282.2
162.5°	1298.7	1292.9	1297.7	1304.5	1295.8
165°	1312.3	1306.4	1309.4	1316.1	1309.4
167.5°	1322.9	1317.1	1320.0	1326.8	1318.1
170°	1331.6	1325.8	1327.8	1334.6	1325.8
172.5°	1337.5	1331.6	1333.6	1340.4	1331.6
175°	1342.3	1335.5	1337.5	1344.2	1334.6
177.5°	1344.2	1337.5	1338.4	1345.2	1336.5
180°	1339.4	1339.4	1339.4	1339.4	1339.4

(END OF REPORT)