

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: P1029175

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029175
REPORT IS A COMBINATION OF REPORTS P985058 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F1_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

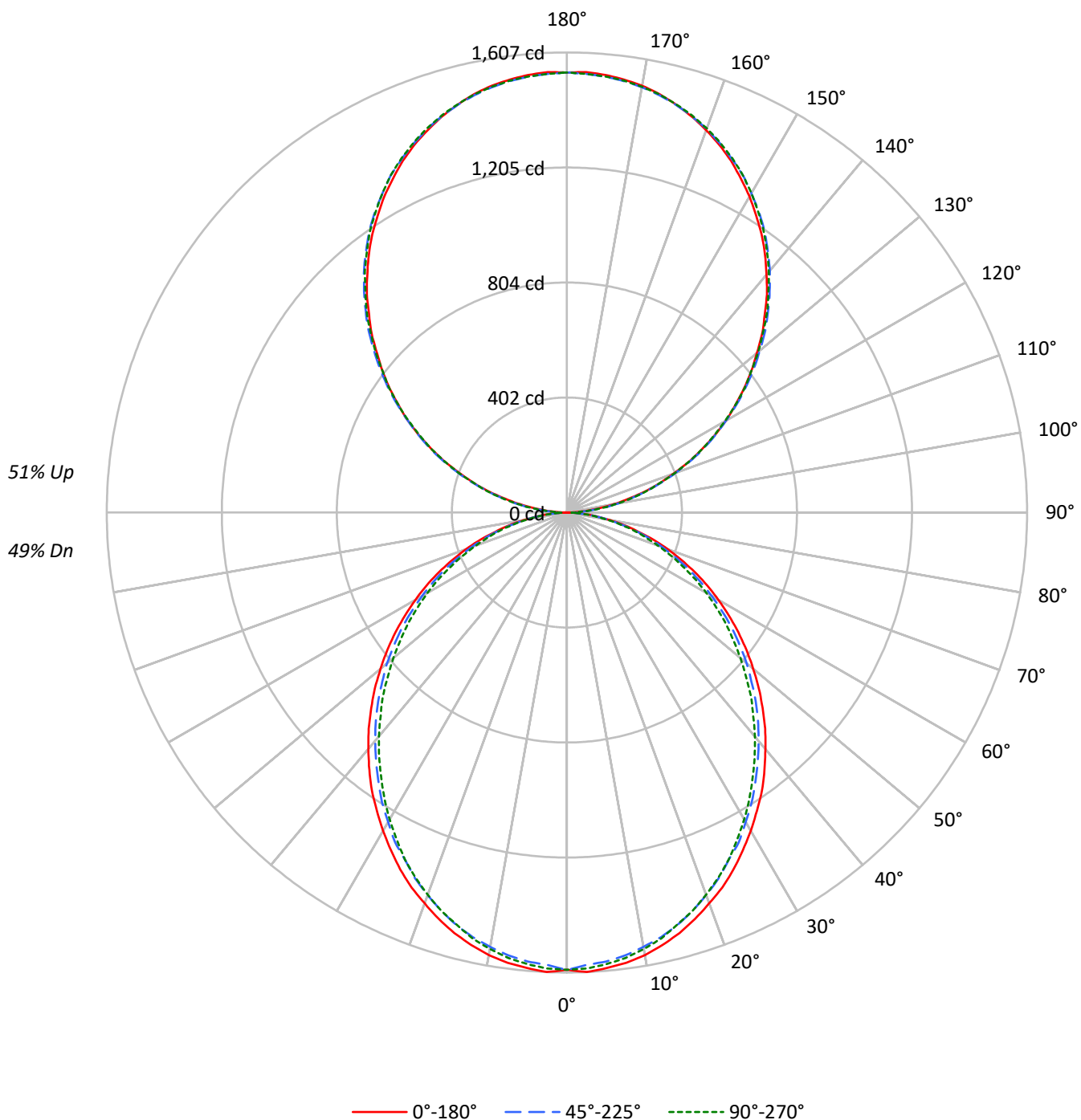
Lumens per Lamp: N/A
Luminaire Lumens: 8366.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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	98	98	98	98	83	83	83	68	68	68	55	55	55			49
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46			41
2	89	81	75	70	81	75	70	65	63	60	56	53	50	47	43	41	39			34
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	35	33			29
4	74	63	55	49	68	59	52	46	50	44	40	41	38	34	34	31	29			25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25			22
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22			19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20			17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18			15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	18	21	18	16			14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14			12

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	1.8
10°-20°	423.0	5.1
20°-30°	621.6	7.4
30°-40°	722.0	8.6
40°-50°	721.1	8.6
50°-60°	628.8	7.5
60°-70°	464.8	5.6
70°-80°	263.0	3.1
80°-90°	73.8	0.9
90°-100°	95.1	1.1
100°-110°	302.3	3.6
110°-120°	517.3	6.2
120°-130°	680.3	8.1
130°-140°	763.6	9.1
140°-150°	748.8	9.0
150°-160°	628.1	7.5
160°-170°	416.6	5.0
170°-180°	145.6	1.7
0°-30°	1195.0	14.3
0°-40°	1917.0	22.9
0°-60°	3266.8	39.0
0°-90°	4068.4	48.6
90°-120°	914.6	10.9
90°-150°	3107.3	37.1
90°-180°	4298.0	51.4
0°-180°	8366.0	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	17	45	43	44	8
95°	68	80	83	83	80	75
105°	279	283	285	288	288	294
115°	519	527	524	523	519	513
125°	755	767	763	759	758	675
135°	977	991	994	992	988	755
145°	1186	1195	1202	1204	1199	741
155°	1356	1360	1363	1370	1366	624
165°	1475	1474	1474	1483	1476	416
175°	1535	1531	1528	1537	1529	146
180°	1537	1537	1537	1537	1537	

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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°	1.3	16.9	45.4	42.8	44.1
92.5°	28.5	38.9	40.2	41.5	41.5
95°	67.5	80.4	83.0	83.0	80.4
97.5°	112.9	124.5	129.7	129.7	129.7
100°	164.7	175.1	179.0	179.0	177.7
102.5°	219.2	227.0	232.2	233.5	232.2
105°	278.9	282.8	285.4	288.0	288.0
107.5°	338.6	343.8	343.8	345.1	338.6
110°	395.6	403.4	403.4	403.4	399.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	457.9	465.7	464.4	460.5	457.9
115°	518.9	526.7	524.1	522.8	518.9
117.5°	579.8	590.2	583.7	579.8	576.0
120°	640.8	651.2	640.8	640.8	636.9
122.5°	696.6	709.6	703.1	699.2	696.6
125°	755.0	766.6	762.7	758.9	757.6
127.5°	812.0	826.3	821.1	815.9	812.0
130°	865.2	882.1	879.5	876.9	871.7
132.5°	924.9	937.9	939.2	932.7	928.8
135°	976.8	991.1	993.6	992.3	988.5
137.5°	1033.9	1045.5	1048.1	1046.8	1041.6
140°	1084.4	1096.1	1102.6	1102.6	1097.4
142.5°	1136.3	1148.0	1151.9	1153.2	1148.0
145°	1185.6	1194.7	1202.5	1203.8	1198.6
147.5°	1229.7	1241.4	1246.6	1249.2	1244.0
150°	1275.1	1282.9	1288.1	1292.0	1288.1
152.5°	1315.3	1323.1	1329.6	1334.8	1329.6
155°	1355.6	1359.5	1363.3	1369.8	1365.9
157.5°	1390.6	1393.2	1395.8	1404.9	1398.4
160°	1421.7	1424.3	1425.6	1433.4	1428.2
162.5°	1450.3	1450.3	1451.6	1460.6	1454.1
165°	1474.9	1473.6	1473.6	1482.7	1476.2
167.5°	1497.0	1493.1	1493.1	1502.1	1495.7
170°	1513.8	1509.9	1508.6	1517.7	1509.9
172.5°	1525.5	1521.6	1520.3	1529.4	1521.6
175°	1534.6	1530.7	1528.1	1537.2	1529.4
177.5°	1539.8	1535.9	1533.3	1541.1	1533.3
180°	1537.2	1537.2	1537.2	1537.2	1537.2

(END OF REPORT)