

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: P1029177

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029177
REPORT IS A COMBINATION OF REPORTS P985060 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_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

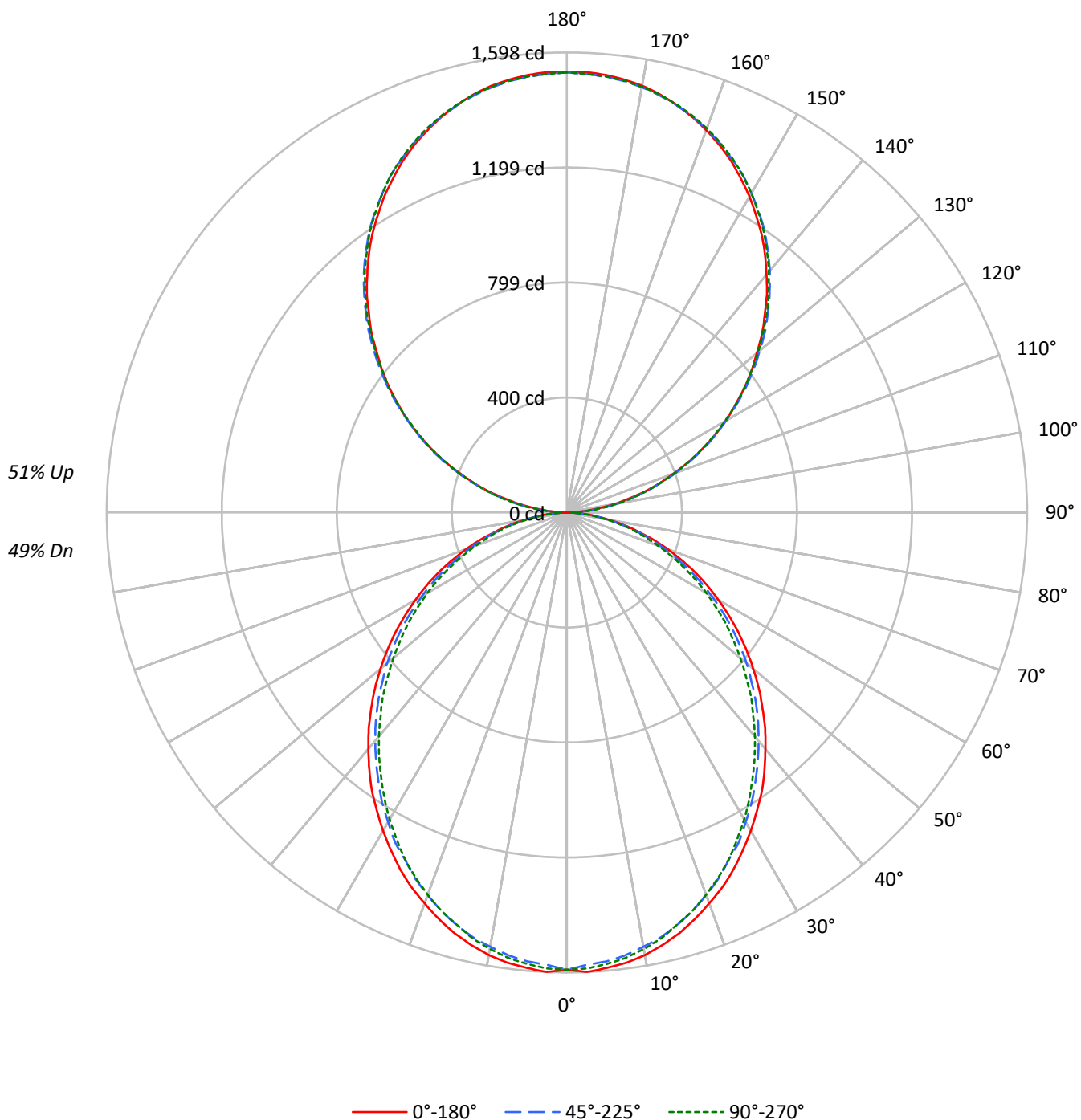
Lumens per Lamp: N/A
Luminaire Lumens: 8319.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1029177

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F1_4000K

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46
2	89	81	75	70	81	75	70	65	63	60	56	53	50	47	43	41	39
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	35	33
4	74	63	55	49	68	59	52	46	50	44	40	41	38	34	34	31	29
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	30	25	46	35	29	24	30	25	21	26	22	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25142	25142	25142
5°	25183	23965	23795
10°	24979	22873	22420
15°	24613	21773	20971
20°	24118	20575	19601
25°	23625	19325	18232
30°	23005	18152	16796
35°	22421	16912	15385
40°	21698	15689	14051
45°	20979	14475	12743
50°	20197	13242	11386
55°	19372	11922	10101
60°	18443	10493	8766
65°	17426	9040	7360
70°	16136	7451	5944
75°	14354	5744	4590
80°	12191	3903	2954
85°	8843	1817	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20979 cd/sqm

TEST NUMBER: P1029177

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F1_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.8
10°-20°	420.6	5.1
20°-30°	618.1	7.4
30°-40°	717.9	8.6
40°-50°	717.0	8.6
50°-60°	625.2	7.5
60°-70°	462.2	5.6
70°-80°	261.5	3.1
80°-90°	73.4	0.9
90°-100°	94.6	1.1
100°-110°	300.6	3.6
110°-120°	514.4	6.2
120°-130°	676.5	8.1
130°-140°	759.3	9.1
140°-150°	744.6	9.0
150°-160°	624.6	7.5
160°-170°	414.3	5.0
170°-180°	144.8	1.7
0°-30°	1188.2	14.3
0°-40°	1906.1	22.9
0°-60°	3248.3	39.0
0°-90°	4045.4	48.6
90°-120°	909.5	10.9
90°-150°	3090.0	37.1
90°-180°	4274.0	51.4
0°-180°	8319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1588	1582	1565	1578	1575	151
15°	1512	1503	1483	1489	1481	426
25°	1368	1356	1330	1333	1330	630
35°	1181	1165	1141	1132	1124	737
45°	961	950	927	910	904	741
55°	727	718	700	681	674	650
65°	490	481	466	452	444	485
75°	257	254	246	237	240	274
85°	63	61	60	55	54	70
90°	1	17	45	43	44	8
95°	67	80	83	83	80	75
105°	277	281	284	286	286	293
115°	516	524	521	520	516	510
125°	751	762	758	755	753	671
135°	971	986	988	987	983	751
145°	1179	1188	1196	1197	1192	737
155°	1348	1352	1356	1362	1358	621
165°	1467	1465	1465	1474	1468	414
175°	1526	1522	1520	1529	1521	145
180°	1529	1529	1529	1529	1529	

TEST NUMBER: P1029177

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F1_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.3	1588.3	1588.3	1588.3	1588.3
2.5°	1597.5	1589.9	1573.1	1588.3	1585.3
5°	1588.3	1582.2	1565.4	1577.7	1574.6
7.5°	1577.7	1568.5	1551.7	1563.9	1560.9
10°	1560.9	1550.2	1531.8	1544.1	1539.5
12.5°	1537.9	1528.8	1510.5	1518.1	1515.0
15°	1512.0	1502.8	1483.0	1489.1	1481.4
17.5°	1479.9	1470.7	1450.9	1458.5	1450.9
20°	1444.8	1435.6	1414.2	1418.8	1412.7
22.5°	1409.7	1395.9	1376.1	1376.1	1373.0
25°	1368.4	1356.2	1330.2	1333.3	1330.2
27.5°	1322.6	1311.9	1292.1	1287.5	1279.8
30°	1276.8	1264.6	1241.7	1237.1	1231.0
32.5°	1227.9	1218.7	1194.3	1185.1	1179.0
35°	1180.6	1165.3	1140.9	1131.7	1124.1
37.5°	1127.1	1113.4	1088.9	1078.2	1070.6
40°	1072.1	1059.9	1035.5	1021.7	1015.6
42.5°	1018.7	1006.5	982.0	966.8	957.6
45°	960.6	950.0	927.0	910.2	904.1
47.5°	904.1	893.4	869.0	852.2	843.0
50°	844.6	836.9	815.6	794.2	786.5
52.5°	786.5	775.8	756.0	739.2	728.5
55°	727.0	717.8	699.5	681.2	673.5
57.5°	667.4	659.8	639.9	621.6	615.5
60°	607.8	601.7	580.4	563.6	559.0
62.5°	549.8	539.1	523.8	508.6	502.5
65°	490.2	481.1	465.8	452.1	444.4
67.5°	429.2	421.5	407.8	397.1	391.0
70°	372.6	366.5	352.8	342.1	336.0
72.5°	314.6	308.5	300.9	290.2	285.6
75°	256.6	253.5	245.9	236.7	239.8
77.5°	204.7	198.5	195.5	190.9	186.3
80°	152.7	151.2	148.1	143.6	140.5
82.5°	103.9	103.9	102.3	96.2	96.2
85°	62.6	61.1	59.6	55.0	53.5
87.5°	27.5	24.4	21.4	16.8	15.3
90°	1.3	16.8	45.1	42.6	43.9
92.5°	28.4	38.7	40.0	41.3	41.3
95°	67.1	80.0	82.6	82.6	80.0
97.5°	112.2	123.8	129.0	129.0	129.0
100°	163.8	174.1	178.0	178.0	176.7
102.5°	218.0	225.7	230.9	232.2	230.9
105°	277.3	281.2	283.8	286.4	286.4
107.5°	336.7	341.8	341.8	343.1	336.7
110°	393.4	401.2	401.2	401.2	397.3

TEST NUMBER: P1029177

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F1_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	455.4	463.1	461.8	457.9	455.4
115°	516.0	523.7	521.1	519.8	516.0
117.5°	576.6	586.9	580.5	576.6	572.7
120°	637.2	647.6	637.2	637.2	633.4
122.5°	692.7	705.6	699.2	695.3	692.7
125°	750.8	762.4	758.5	754.6	753.3
127.5°	807.5	821.7	816.5	811.4	807.5
130°	860.4	877.2	874.6	872.0	866.8
132.5°	919.7	932.6	933.9	927.5	923.6
135°	971.3	985.5	988.1	986.8	982.9
137.5°	1028.1	1039.7	1042.3	1041.0	1035.8
140°	1078.4	1090.0	1096.5	1096.5	1091.3
142.5°	1130.0	1141.6	1145.5	1146.8	1141.6
145°	1179.0	1188.0	1195.8	1197.1	1191.9
147.5°	1222.9	1234.5	1239.6	1242.2	1237.1
150°	1268.0	1275.8	1280.9	1284.8	1280.9
152.5°	1308.0	1315.7	1322.2	1327.4	1322.2
155°	1348.0	1351.9	1355.7	1362.2	1358.3
157.5°	1382.8	1385.4	1388.0	1397.0	1390.6
160°	1413.8	1416.4	1417.7	1425.4	1420.2
162.5°	1442.2	1442.2	1443.5	1452.5	1446.0
165°	1466.7	1465.4	1465.4	1474.4	1468.0
167.5°	1488.6	1484.7	1484.7	1493.8	1487.3
170°	1505.4	1501.5	1500.2	1509.2	1501.5
172.5°	1517.0	1513.1	1511.8	1520.9	1513.1
175°	1526.0	1522.1	1519.6	1528.6	1520.9
177.5°	1531.2	1527.3	1524.7	1532.5	1524.7
180°	1528.6	1528.6	1528.6	1528.6	1528.6

(END OF REPORT)