

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: P1029182

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029182
REPORT IS A COMBINATION OF REPORTS P985070 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-F_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

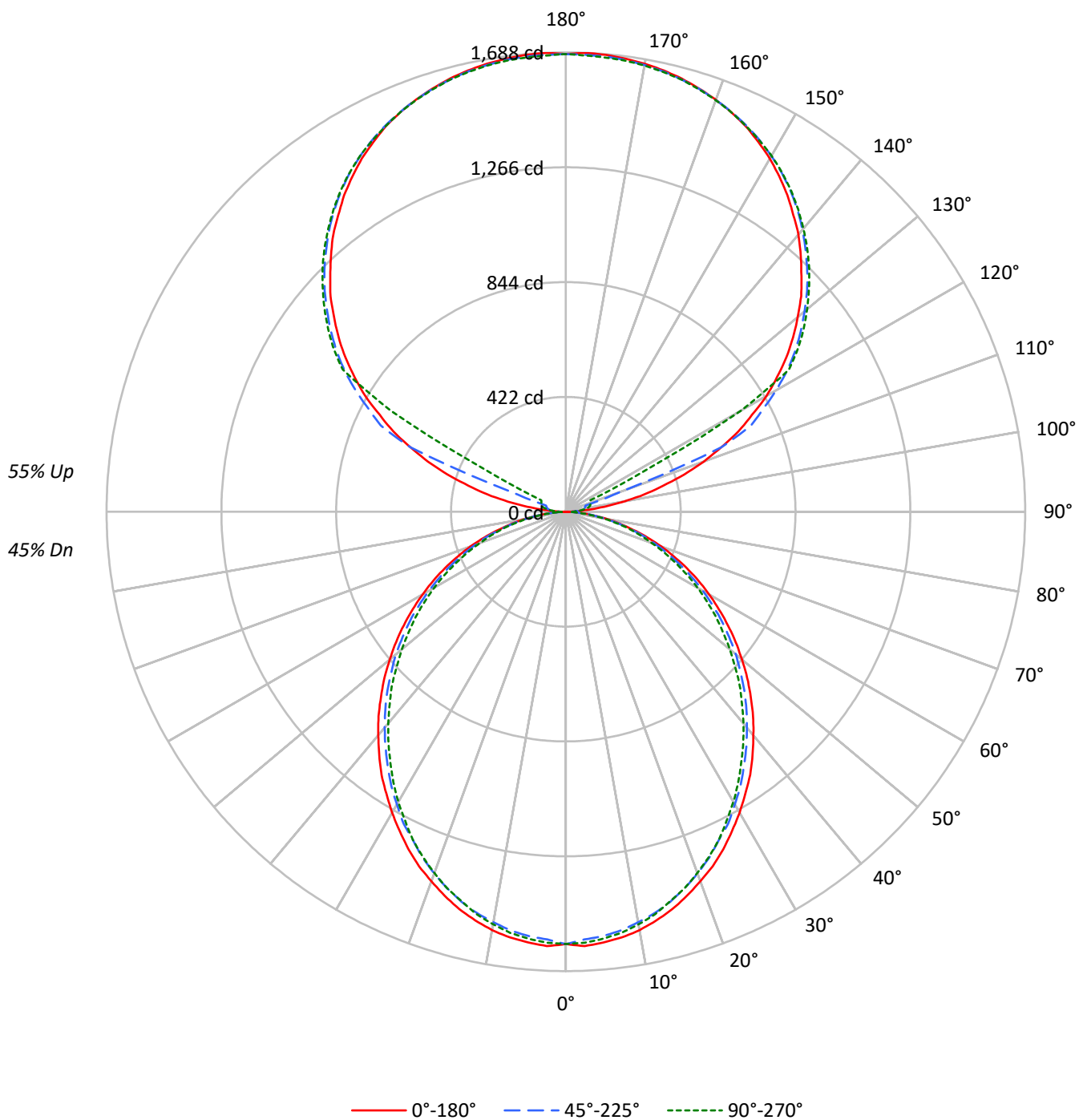
Lumens per Lamp: N/A
Luminaire Lumens: 8974.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1029182

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1029182

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_4000K

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	97	92	89	85	88	85	82	79	71	68	66	58	56	54	46	45	44
2	88	81	75	69	80	74	69	64	62	58	55	51	48	46	40	38	37
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27
5	67	56	48	42	62	52	44	39	43	38	34	36	32	29	29	26	23
6	62	50	42	36	57	46	39	34	39	34	29	32	28	25	26	23	21
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16
9	50	37	30	25	45	35	28	23	30	24	21	25	21	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13

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: P1029182

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.7
10°-20°	420.6	4.7
20°-30°	618.1	6.9
30°-40°	717.9	8.0
40°-50°	717.0	8.0
50°-60°	625.2	7.0
60°-70°	462.2	5.1
70°-80°	261.5	2.9
80°-90°	72.0	0.8
90°-100°	55.5	0.6
100°-110°	206.7	2.3
110°-120°	548.2	6.1
120°-130°	909.3	10.1
130°-140°	965.9	10.8
140°-150°	897.7	10.0
150°-160°	721.7	8.0
160°-170°	465.0	5.2
170°-180°	160.1	1.8
0°-30°	1188.2	13.2
0°-40°	1906.1	21.2
0°-60°	3248.3	36.2
0°-90°	4044.0	45.1
90°-120°	810.4	9.0
90°-150°	3583.2	39.9
90°-180°	4930.0	54.9
0°-180°	8974.0	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	15	24	30	33	8
95°	79	39	48	54	52	94
105°	370	406	74	88	92	395
115°	700	720	751	187	100	689
125°	989	1005	1028	1037	1040	882
135°	1224	1244	1255	1267	1264	946
145°	1420	1419	1440	1448	1442	888
155°	1564	1553	1567	1575	1565	721
165°	1648	1640	1644	1652	1644	465
175°	1685	1677	1679	1688	1676	160
180°	1682	1682	1682	1682	1682	

TEST NUMBER: P1029182

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_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°	1.2	14.6	24.3	30.4	32.9
92.5°	30.4	25.6	29.2	31.6	32.9
95°	79.1	38.9	47.5	53.5	52.3
97.5°	142.4	42.6	62.1	65.7	66.9
100°	215.4	48.7	69.4	79.1	81.5
102.5°	295.7	293.3	71.8	85.2	88.8
105°	369.9	406.4	74.2	87.6	92.5
107.5°	456.3	486.7	76.7	90.0	94.9
110°	539.1	564.6	212.9	91.3	96.1

TEST NUMBER: P1029182

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	616.9	638.8	618.2	93.7	97.3
115°	699.7	720.4	750.8	187.4	99.8
117.5°	771.5	795.8	816.5	642.5	323.7
120°	851.8	870.0	891.9	906.5	742.3
122.5°	919.9	939.4	963.7	971.0	972.2
125°	989.3	1005.1	1028.2	1036.7	1040.4
127.5°	1052.6	1069.6	1087.8	1100.0	1101.2
130°	1112.2	1131.7	1145.0	1158.4	1157.2
132.5°	1173.0	1188.8	1202.2	1213.2	1212.0
135°	1224.1	1243.6	1254.6	1266.7	1264.3
137.5°	1277.7	1292.3	1304.4	1316.6	1313.0
140°	1330.0	1339.7	1353.1	1364.1	1358.0
142.5°	1373.8	1382.3	1398.1	1407.9	1401.8
145°	1420.0	1418.8	1439.5	1448.0	1441.9
147.5°	1460.2	1456.5	1477.2	1483.3	1478.5
150°	1499.1	1490.6	1510.1	1517.4	1511.3
152.5°	1532.0	1522.3	1540.5	1547.8	1539.3
155°	1563.6	1552.7	1567.3	1574.6	1564.8
157.5°	1589.2	1579.4	1590.4	1598.9	1589.2
160°	1611.1	1603.8	1611.1	1618.4	1609.9
162.5°	1630.6	1623.3	1629.3	1637.9	1626.9
165°	1647.6	1640.3	1643.9	1652.5	1643.9
167.5°	1661.0	1653.7	1657.3	1665.8	1654.9
170°	1671.9	1664.6	1667.1	1675.6	1664.6
172.5°	1679.2	1671.9	1674.4	1682.9	1671.9
175°	1685.3	1676.8	1679.2	1687.7	1675.6
177.5°	1687.7	1679.2	1680.4	1689.0	1678.0
180°	1681.7	1681.7	1681.7	1681.7	1681.7

(END OF REPORT)