

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: P1029179

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029179
REPORT IS A COMBINATION OF REPORTS P985067 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_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

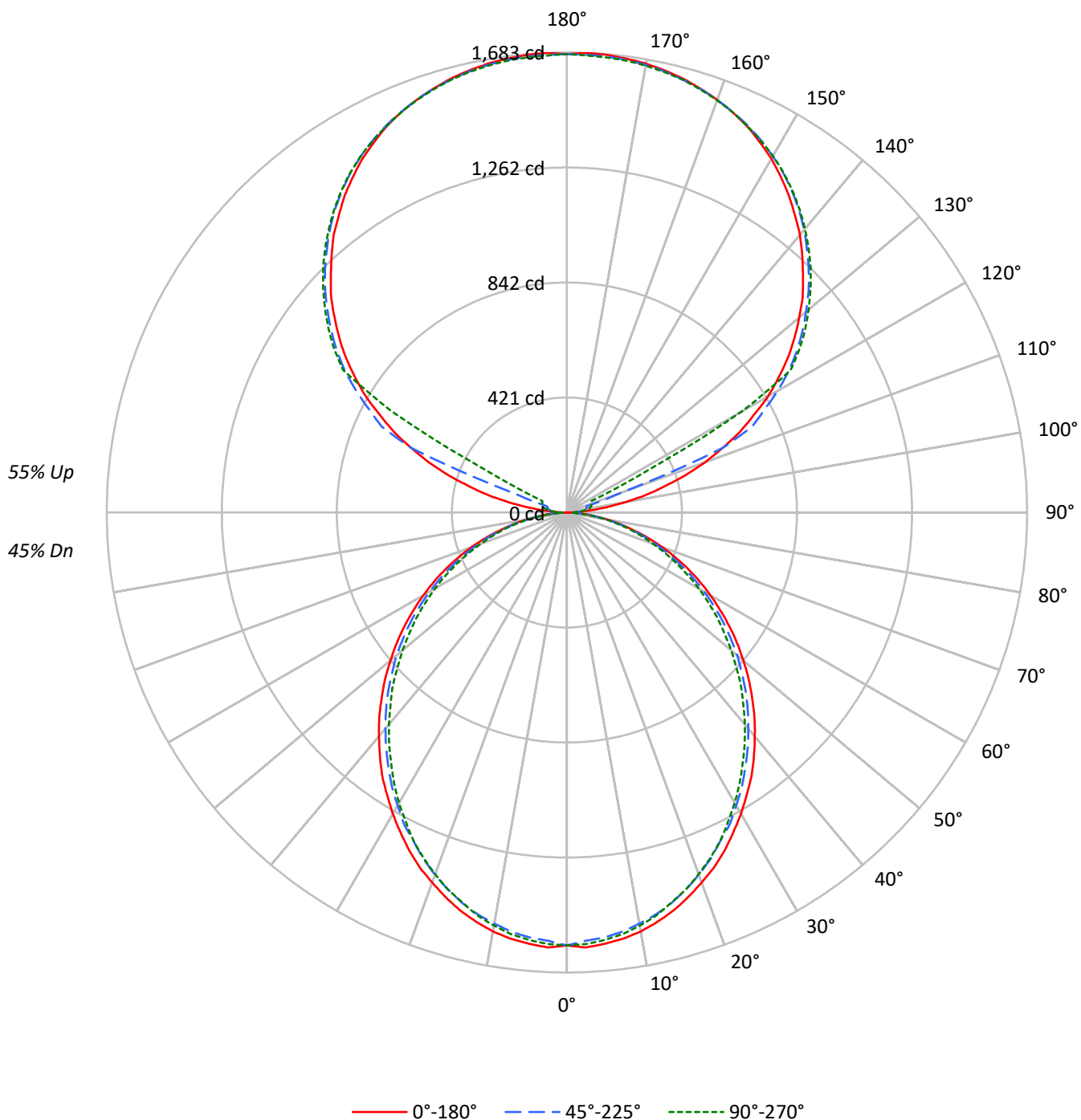
Lumens per Lamp: N/A
Luminaire Lumens: 8948.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1029179

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1029179

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_2700K

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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52			45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	54	46	45	44			38
2	88	81	75	69	80	74	69	64	62	58	55	51	48	46	40	38	37			32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31			27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27			23
5	67	56	48	42	62	52	44	39	43	38	34	36	32	29	29	26	23			20
6	62	50	42	36	57	46	39	34	39	34	29	32	28	25	26	23	21			18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18			16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16			14
9	50	37	30	25	45	35	28	23	30	24	21	25	21	18	20	17	15			13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13			11

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: P1029179

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	1.7
10°-20°	419.4	4.7
20°-30°	616.3	6.9
30°-40°	715.8	8.0
40°-50°	714.9	8.0
50°-60°	623.3	7.0
60°-70°	460.8	5.1
70°-80°	260.7	2.9
80°-90°	71.7	0.8
90°-100°	55.3	0.6
100°-110°	206.1	2.3
110°-120°	546.7	6.1
120°-130°	906.7	10.1
130°-140°	963.1	10.8
140°-150°	895.1	10.0
150°-160°	719.6	8.0
160°-170°	463.7	5.2
170°-180°	159.6	1.8
0°-30°	1184.7	13.2
0°-40°	1900.5	21.2
0°-60°	3238.7	36.2
0°-90°	4031.9	45.1
90°-120°	808.1	9.0
90°-150°	3573.1	39.9
90°-180°	4916.0	54.9
0°-180°	8948.0	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	15	24	30	33	8
95°	79	39	47	53	52	93
105°	369	405	74	87	92	394
115°	698	718	749	187	100	687
125°	986	1002	1025	1034	1037	880
135°	1221	1240	1251	1263	1261	943
145°	1416	1415	1435	1444	1438	886
155°	1559	1548	1563	1570	1560	718
165°	1643	1636	1639	1648	1639	464
175°	1680	1672	1674	1683	1671	160
180°	1677	1677	1677	1677	1677	

TEST NUMBER: P1029179

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-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°	1.2	14.6	24.3	30.3	32.8
92.5°	30.3	25.5	29.1	31.5	32.8
95°	78.9	38.8	47.3	53.4	52.2
97.5°	142.0	42.5	61.9	65.5	66.7
100°	214.8	48.5	69.2	78.9	81.3
102.5°	294.9	292.4	71.6	84.9	88.6
105°	368.9	405.3	74.0	87.4	92.2
107.5°	455.0	485.4	76.4	89.8	94.6
110°	537.5	563.0	212.3	91.0	95.9

TEST NUMBER: P1029179

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	615.2	637.0	616.4	93.4	97.1
115°	697.7	718.3	748.7	186.9	99.5
117.5°	769.3	793.5	814.2	640.7	322.8
120°	849.4	867.6	889.4	904.0	740.2
122.5°	917.3	936.7	961.0	968.3	969.5
125°	986.5	1002.3	1025.3	1033.8	1037.4
127.5°	1049.6	1066.6	1084.8	1096.9	1098.1
130°	1109.0	1128.4	1141.8	1155.1	1153.9
132.5°	1169.7	1185.5	1198.8	1209.7	1208.5
135°	1220.7	1240.1	1251.0	1263.1	1260.7
137.5°	1274.0	1288.6	1300.7	1312.9	1309.2
140°	1326.2	1335.9	1349.3	1360.2	1354.1
142.5°	1369.9	1378.4	1394.2	1403.9	1397.8
145°	1416.0	1414.8	1435.4	1443.9	1437.9
147.5°	1456.1	1452.4	1473.0	1479.1	1474.3
150°	1494.9	1486.4	1505.8	1513.1	1507.0
152.5°	1527.6	1517.9	1536.1	1543.4	1534.9
155°	1559.2	1548.3	1562.8	1570.1	1560.4
157.5°	1584.7	1575.0	1585.9	1594.4	1584.7
160°	1606.5	1599.2	1606.5	1613.8	1605.3
162.5°	1625.9	1618.6	1624.7	1633.2	1622.3
165°	1642.9	1635.6	1639.3	1647.8	1639.3
167.5°	1656.3	1649.0	1652.6	1661.1	1650.2
170°	1667.2	1659.9	1662.3	1670.8	1659.9
172.5°	1674.5	1667.2	1669.6	1678.1	1667.2
175°	1680.5	1672.0	1674.5	1683.0	1670.8
177.5°	1683.0	1674.5	1675.7	1684.2	1673.2
180°	1676.9	1676.9	1676.9	1676.9	1676.9

(END OF REPORT)