

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: P1029326

Luminaire Tested: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029326
REPORT IS A COMBINATION OF REPORTS P985517 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D1240UB2750-4F0-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

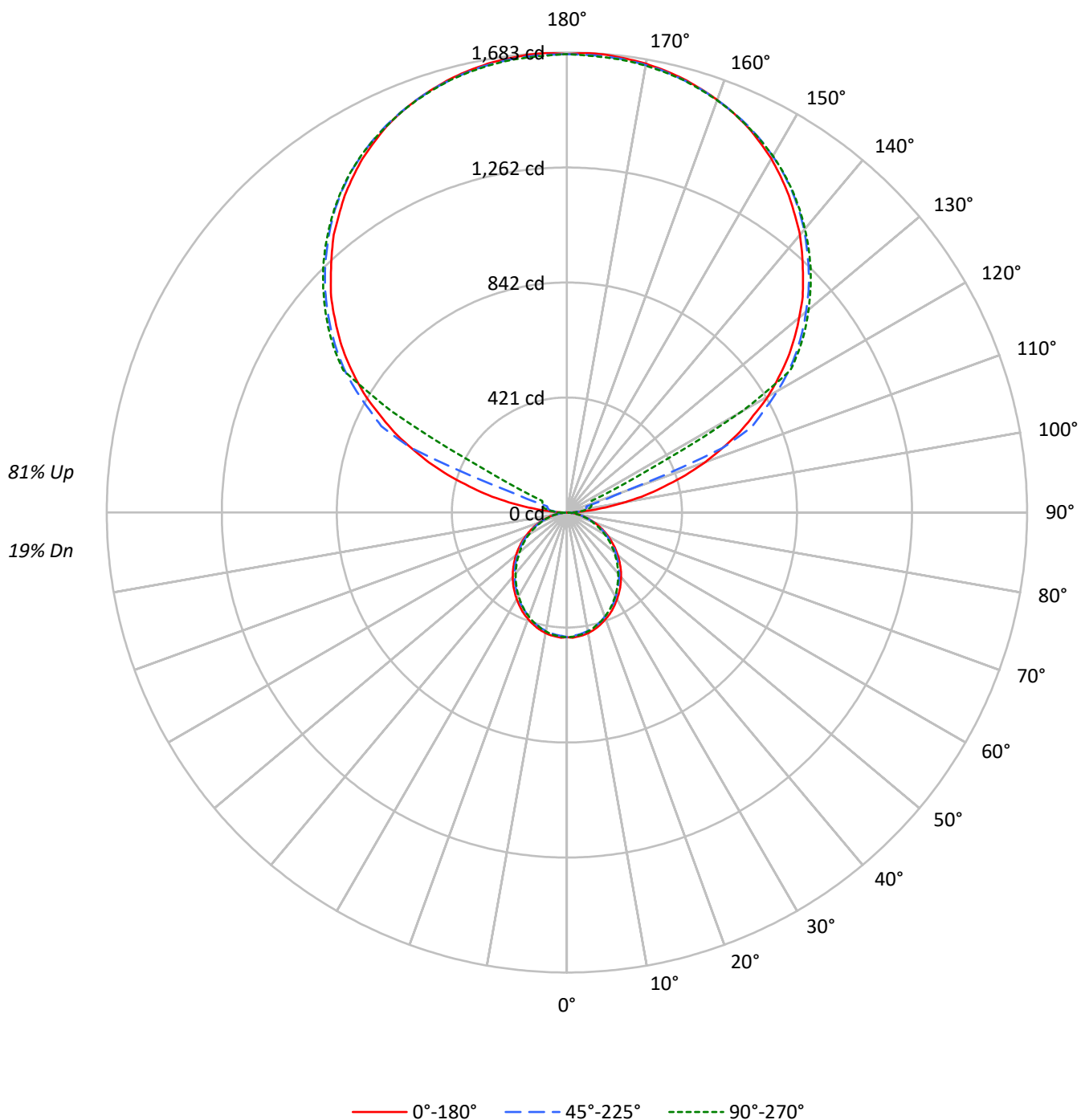
Lumens per Lamp: N/A
Luminaire Lumens: 6079.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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: P1029326

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_2700K

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
RCR																	
0	100	100	100	100	88	88	88	88	66	66	66		46	46	46		28
1	91	87	83	80	80	77	74	71	58	56	54		40	39	38		24
2	83	76	70	65	73	67	62	58	51	47	45		35	34	32		22
3	75	66	60	54	66	59	53	48	45	41	37		31	29	27		19
4	69	59	51	45	60	52	46	41	39	35	32		28	25	23		17
5	63	52	44	39	55	46	40	35	35	31	27		25	22	20		15
6	58	46	39	33	51	41	35	30	32	27	24		22	19	17		14
7	53	42	34	29	47	37	31	26	28	24	21		20	17	15		13
8	49	38	30	25	43	34	27	23	26	21	18		18	15	13		12
9	46	34	27	22	40	31	24	20	23	19	16		17	14	12		11
10	43	31	24	20	38	28	22	18	21	17	14		15	13	11		10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7217	7217	7217
5°	7228	6880	6831
10°	7171	6566	6435
15°	7065	6250	6021
20°	6923	5907	5626
25°	6781	5548	5234
30°	6604	5210	4822
35°	6436	4855	4417
40°	6230	4503	4033
45°	6023	4155	3658
50°	5797	3801	3269
55°	5561	3422	2899
60°	5295	3012	2517
65°	5002	2595	2113
70°	4634	2139	1707
75°	4123	1649	1317
80°	3497	1120	847
85°	2543	521	360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6023 cd/sqm

TEST NUMBER: P1029326

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	0.7
10°-20°	120.7	2.0
20°-30°	177.4	2.9
30°-40°	206.1	3.4
40°-50°	205.8	3.4
50°-60°	179.5	3.0
60°-70°	132.7	2.2
70°-80°	75.1	1.2
80°-90°	22.8	0.4
90°-100°	55.3	0.9
100°-110°	206.1	3.4
110°-120°	546.7	9.0
120°-130°	906.7	14.9
130°-140°	963.1	15.8
140°-150°	895.1	14.7
150°-160°	719.6	11.8
160°-170°	463.7	7.6
170°-180°	159.6	2.6
0°-30°	341.1	5.6
0°-40°	547.2	9.0
0°-60°	932.5	15.3
0°-90°	1163.0	19.1
90°-120°	808.1	13.3
90°-150°	3573.1	58.8
90°-180°	4916.0	80.9
0°-180°	6079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	454	449	453	452	43
15°	434	431	426	427	425	122
25°	393	389	382	383	382	181
35°	339	334	328	325	323	212
45°	276	273	266	261	260	213
55°	209	206	201	196	193	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	1	15	24	30	33	6
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: P1029326

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.9	455.9	455.9	455.9	455.9
2.5°	458.6	456.4	451.6	455.9	455.1
5°	455.9	454.2	449.4	452.9	452.0
7.5°	452.9	450.2	445.4	448.9	448.1
10°	448.1	445.0	439.7	443.2	441.9
12.5°	441.5	438.8	433.6	435.8	434.9
15°	434.0	431.4	425.7	427.4	425.3
17.5°	424.8	422.2	416.5	418.7	416.5
20°	414.7	412.1	406.0	407.3	405.5
22.5°	404.7	400.7	395.0	395.0	394.1
25°	392.8	389.3	381.9	382.7	381.9
27.5°	379.7	376.6	370.9	369.6	367.4
30°	366.5	363.0	356.4	355.1	353.4
32.5°	352.5	349.9	342.8	340.2	338.5
35°	338.9	334.5	327.5	324.9	322.7
37.5°	323.5	319.6	312.6	309.5	307.3
40°	307.8	304.3	297.2	293.3	291.5
42.5°	292.4	288.9	281.9	277.5	274.9
45°	275.8	272.7	266.1	261.3	259.5
47.5°	259.5	256.5	249.5	244.6	242.0
50°	242.4	240.2	234.1	228.0	225.8
52.5°	225.8	222.7	217.0	212.2	209.1
55°	208.7	206.1	200.8	195.5	193.3
57.5°	191.6	189.4	183.7	178.4	176.7
60°	174.5	172.7	166.6	161.8	160.5
62.5°	157.8	154.8	150.4	146.0	144.2
65°	140.7	138.1	133.7	129.8	127.6
67.5°	123.2	121.0	117.1	114.0	112.2
70°	107.0	105.2	101.3	98.2	96.5
72.5°	90.3	88.6	86.4	83.3	82.0
75°	73.7	72.8	70.6	68.0	68.8
77.5°	58.7	57.0	56.1	54.8	53.5
80°	43.8	43.4	42.5	41.2	40.3
82.5°	29.8	29.8	29.4	27.6	27.6
85°	18.0	17.5	17.1	15.8	15.3
87.5°	7.9	7.0	6.1	4.8	4.4
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: P1029326

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-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)