

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: P1029473

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029473
REPORT IS A COMBINATION OF REPORTS P985967 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D1240UB2750-4F0-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

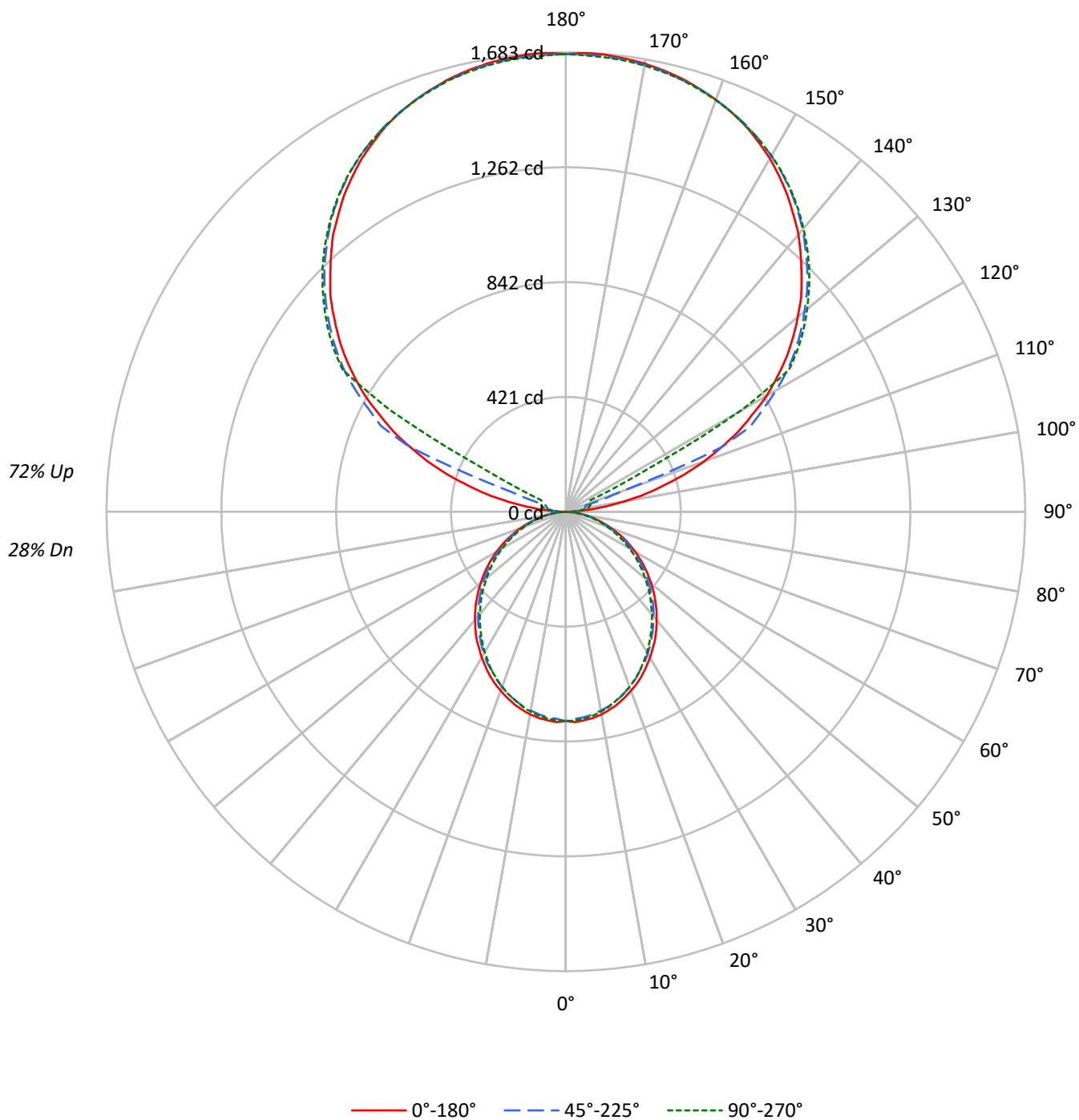
Lumens per Lamp: N/A
Luminaire Lumens: 6870.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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: P1029473

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-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	30	10	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28		
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31	24		
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20		
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17		
4	70	60	52	47	63	54	48	43	43	38	34	32	29	27	22	20	19	15		
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13		
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	14	11		
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	14	13	10		
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9		
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8		
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12139	12139	12139
5°	12159	11571	11488
10°	12060	11044	10825
15°	11883	10512	10125
20°	11644	9934	9464
25°	11407	9330	8802
30°	11106	8764	8109
35°	10825	8165	7428
40°	10476	7574	6783
45°	10129	6989	6152
50°	9752	6394	5497
55°	9353	5755	4877
60°	8906	5066	4232
65°	8415	4365	3554
70°	7791	3597	2869
75°	6931	2773	2216
80°	5884	1884	1425
85°	4266	878	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10129 cd/sqm

TEST NUMBER: P1029473

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.1
10°-20°	203.1	3.0
20°-30°	298.4	4.3
30°-40°	346.6	5.0
40°-50°	346.2	5.0
50°-60°	301.9	4.4
60°-70°	223.1	3.2
70°-80°	126.3	1.8
80°-90°	36.3	0.5
90°-100°	55.3	0.8
100°-110°	206.1	3.0
110°-120°	546.7	8.0
120°-130°	906.7	13.2
130°-140°	963.1	14.0
140°-150°	895.1	13.0
150°-160°	719.6	10.5
160°-170°	463.7	6.7
170°-180°	159.6	2.3
0°-30°	573.7	8.4
0°-40°	920.3	13.4
0°-60°	1568.3	22.8
0°-90°	1954.0	28.4
90°-120°	808.1	11.8
90°-150°	3573.1	52.0
90°-180°	4916.0	71.6
0°-180°	6870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	764	756	762	760	73
15°	730	726	716	719	715	206
25°	661	655	642	644	642	304
35°	570	563	551	546	543	356
45°	464	459	448	440	436	358
55°	351	347	338	329	325	314
65°	237	232	225	218	215	234
75°	124	122	119	114	116	132
85°	30	30	29	26	26	34
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: P1029473

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.9	766.9	766.9	766.9	766.9
2.5°	771.3	767.6	759.5	766.9	765.4
5°	766.9	763.9	755.8	761.7	760.2
7.5°	761.7	757.3	749.2	755.1	753.6
10°	753.6	748.4	739.6	745.5	743.3
12.5°	742.5	738.1	729.2	732.9	731.5
15°	730.0	725.6	716.0	718.9	715.2
17.5°	714.5	710.1	700.5	704.2	700.5
20°	697.5	693.1	682.8	685.0	682.1
22.5°	680.6	673.9	664.4	664.4	662.9
25°	660.7	654.8	642.2	643.7	642.2
27.5°	638.6	633.4	623.8	621.6	617.9
30°	616.4	610.5	599.5	597.3	594.3
32.5°	592.8	588.4	576.6	572.2	569.2
35°	570.0	562.6	550.8	546.4	542.7
37.5°	544.2	537.5	525.7	520.6	516.9
40°	517.6	511.7	499.9	493.3	490.3
42.5°	491.8	485.9	474.1	466.7	462.3
45°	463.8	458.6	447.6	439.5	436.5
47.5°	436.5	431.4	419.6	411.4	407.0
50°	407.8	404.1	393.8	383.4	379.7
52.5°	379.7	374.6	365.0	356.9	351.7
55°	351.0	346.6	337.7	328.9	325.2
57.5°	322.2	318.5	309.0	300.1	297.2
60°	293.5	290.5	280.2	272.1	269.9
62.5°	265.4	260.3	252.9	245.5	242.6
65°	236.7	232.3	224.9	218.3	214.6
67.5°	207.2	203.5	196.9	191.7	188.8
70°	179.9	177.0	170.3	165.2	162.2
72.5°	151.9	148.9	145.3	140.1	137.9
75°	123.9	122.4	118.7	114.3	115.8
77.5°	98.8	95.9	94.4	92.2	90.0
80°	73.7	73.0	71.5	69.3	67.8
82.5°	50.1	50.1	49.4	46.5	46.5
85°	30.2	29.5	28.8	26.5	25.8
87.5°	13.3	11.8	10.3	8.1	7.4
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: P1029473

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-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)