

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: P1029468

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-F1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029468
REPORT IS A COMBINATION OF REPORTS P985957 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-F1_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

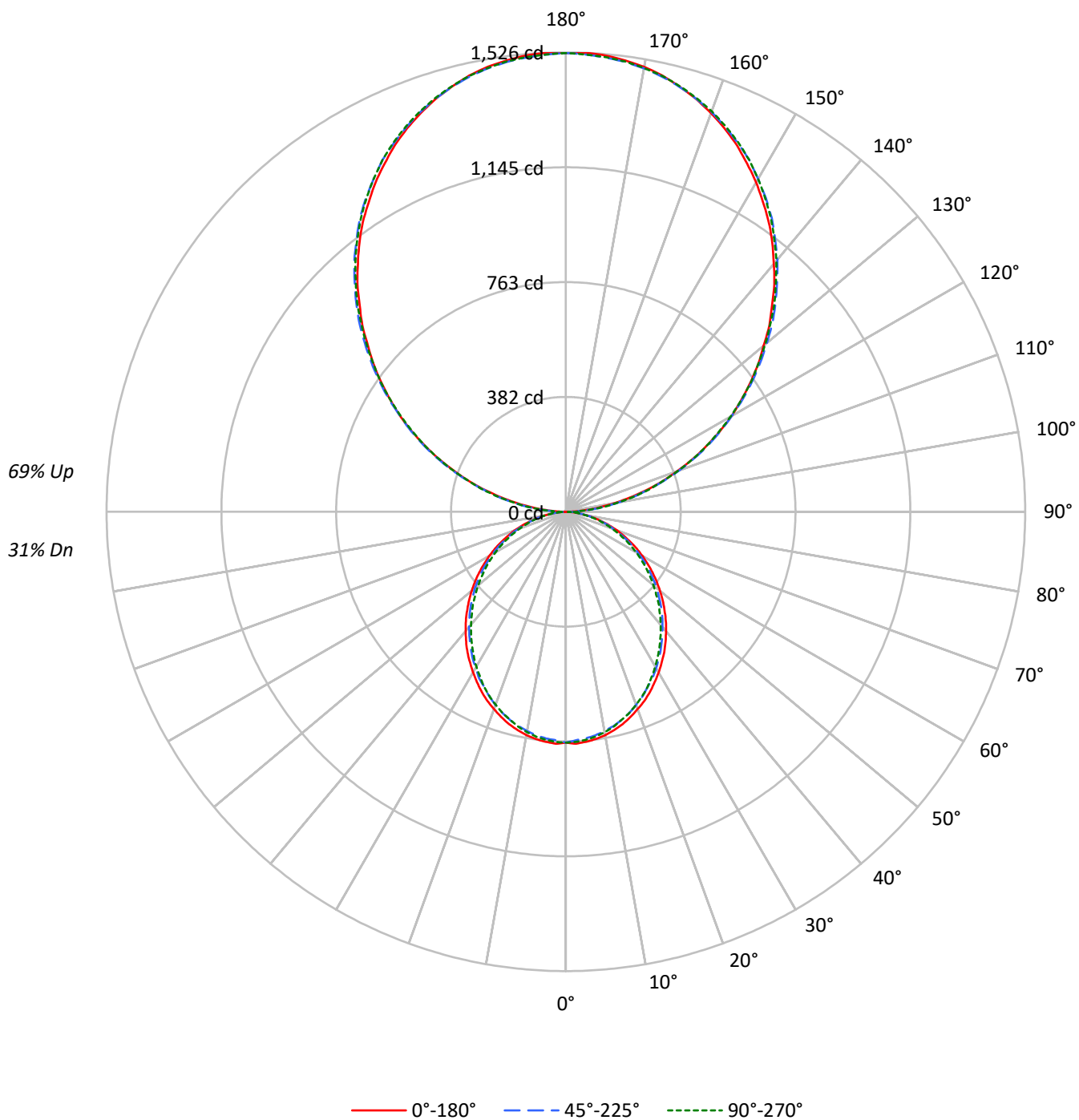
Lumens per Lamp: N/A
Luminaire Lumens: 6216.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	103	103	103	103	92	92	92	92	73	73	73		55	55	55		39
1	94	89	86	82	84	81	77	74	64	62	60		49	47	46		34
2	85	78	72	67	76	70	65	61	56	52	49		43	40	38		30
3	78	69	61	56	70	62	56	51	49	45	42		38	35	32		27
4	71	61	53	47	64	55	48	43	44	39	35		34	30	28		24
5	65	54	46	40	58	49	42	37	39	34	30		30	27	24		22
6	60	48	40	35	54	44	37	32	35	30	26		27	24	21		20
7	55	43	36	30	50	39	33	28	32	27	23		25	21	18		18
8	51	39	32	27	46	36	29	25	29	24	20		22	19	16		16
9	48	36	28	24	43	32	26	22	26	22	18		21	17	15		15
10	44	33	26	21	40	30	24	19	24	20	16		19	16	13		14

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.2
10°-20°	203.1	3.3
20°-30°	298.4	4.8
30°-40°	346.6	5.6
40°-50°	346.2	5.6
50°-60°	301.9	4.9
60°-70°	223.1	3.6
70°-80°	126.3	2.0
80°-90°	37.6	0.6
90°-100°	94.3	1.5
100°-110°	299.7	4.8
110°-120°	512.8	8.2
120°-130°	674.4	10.8
130°-140°	757.0	12.2
140°-150°	742.4	11.9
150°-160°	622.7	10.0
160°-170°	413.0	6.6
170°-180°	144.3	2.3
0°-30°	573.7	9.2
0°-40°	920.3	14.8
0°-60°	1568.3	25.2
0°-90°	1955.3	31.5
90°-120°	906.8	14.6
90°-150°	3080.6	49.6
90°-180°	4261.0	68.5
0°-180°	6216.0	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	17	45	42	44	6
95°	67	80	82	82	80	75
105°	276	280	283	286	286	292
115°	514	522	520	518	514	509
125°	748	760	756	752	751	669
135°	968	982	985	984	980	748
145°	1175	1184	1192	1193	1188	734
155°	1344	1348	1352	1358	1354	619
165°	1462	1461	1461	1470	1464	412
175°	1521	1518	1515	1524	1516	145
180°	1524	1524	1524	1524	1524	

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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°	1.3	16.7	45.0	42.4	43.7
92.5°	28.3	38.6	39.9	41.2	41.2
95°	66.9	79.7	82.3	82.3	79.7
97.5°	111.9	123.5	128.6	128.6	128.6
100°	163.3	173.6	177.5	177.5	176.2
102.5°	217.3	225.1	230.2	231.5	230.2
105°	276.5	280.4	282.9	285.5	285.5
107.5°	335.7	340.8	340.8	342.1	335.7
110°	392.2	400.0	400.0	400.0	396.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	454.0	461.7	460.4	456.5	454.0
115°	514.4	522.1	519.6	518.3	514.4
117.5°	574.9	585.1	578.7	574.9	571.0
120°	635.3	645.6	635.3	635.3	631.4
122.5°	690.6	703.5	697.0	693.2	690.6
125°	748.5	760.0	756.2	752.3	751.0
127.5°	805.1	819.2	814.1	808.9	805.1
130°	857.8	874.5	871.9	869.4	864.2
132.5°	916.9	929.8	931.1	924.7	920.8
135°	968.4	982.5	985.1	983.8	980.0
137.5°	1025.0	1036.5	1039.1	1037.8	1032.7
140°	1075.1	1086.7	1093.1	1093.1	1088.0
142.5°	1126.6	1138.1	1142.0	1143.3	1138.1
145°	1175.4	1184.4	1192.1	1193.4	1188.3
147.5°	1219.2	1230.7	1235.9	1238.4	1233.3
150°	1264.2	1271.9	1277.0	1280.9	1277.0
152.5°	1304.0	1311.8	1318.2	1323.3	1318.2
155°	1343.9	1347.8	1351.6	1358.0	1354.2
157.5°	1378.6	1381.2	1383.8	1392.8	1386.3
160°	1409.5	1412.1	1413.3	1421.1	1415.9
162.5°	1437.8	1437.8	1439.1	1448.1	1441.6
165°	1462.2	1460.9	1460.9	1469.9	1463.5
167.5°	1484.1	1480.2	1480.2	1489.2	1482.8
170°	1500.8	1496.9	1495.7	1504.7	1496.9
172.5°	1512.4	1508.5	1507.2	1516.2	1508.5
175°	1521.4	1517.5	1514.9	1523.9	1516.2
177.5°	1526.5	1522.7	1520.1	1527.8	1520.1
180°	1523.9	1523.9	1523.9	1523.9	1523.9

(END OF REPORT)