

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: P1029466

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029466
REPORT IS A COMBINATION OF REPORTS P985955 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-D_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

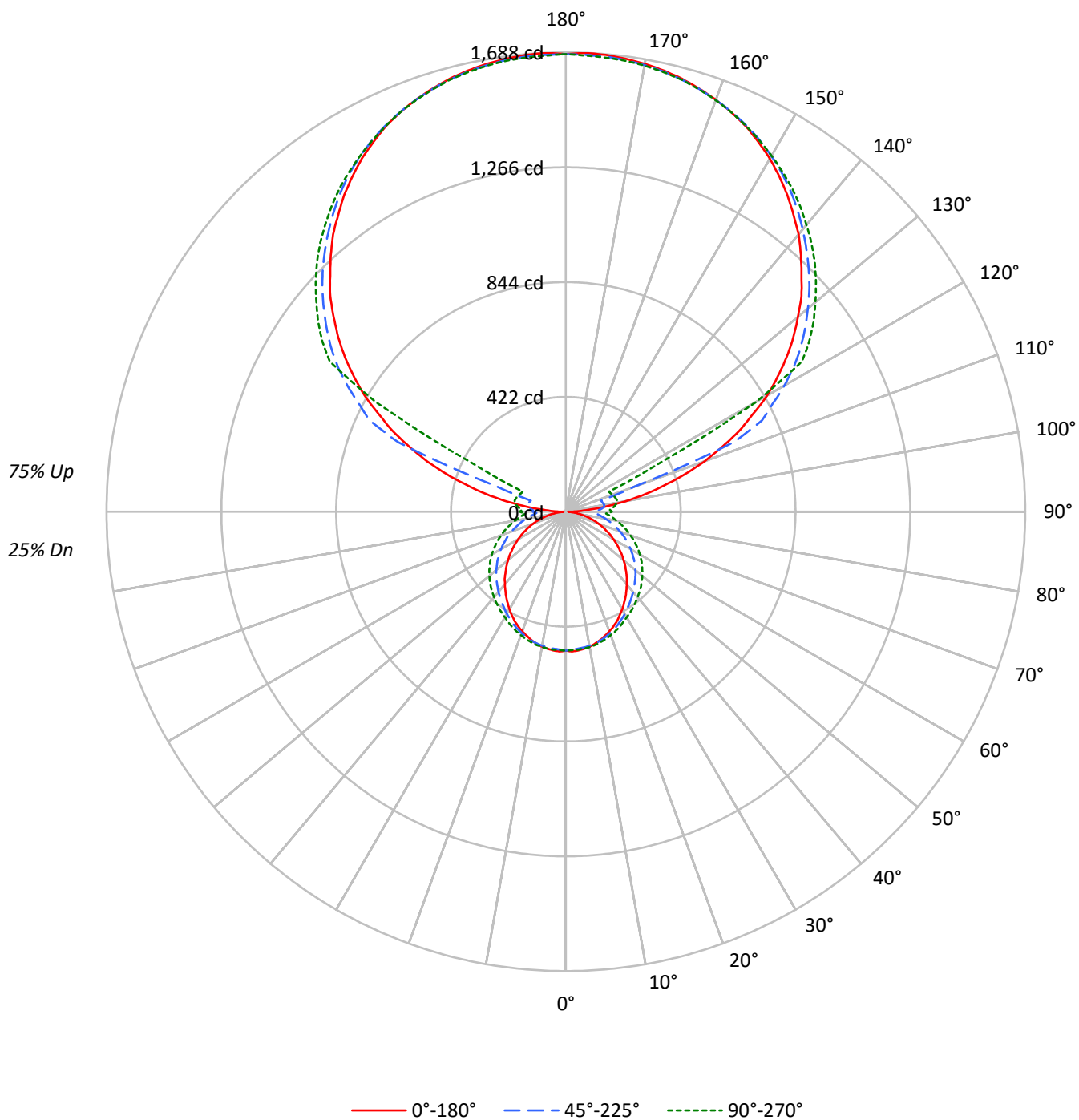
Lumens per Lamp: N/A
Luminaire Lumens: 6880.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1029466

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1029466

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D_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	101	101	101	101	90	90	90	90		70	70	70		51	51	51		33	33	33
1	91	87	83	79	81	77	74	71		60	57	55		43	42	40		28	27	27
2	83	75	69	64	73	67	62	58		52	48	45		38	35	33		24	23	22
3	75	66	59	53	67	59	53	48		45	41	37		33	30	28		21	20	18
4	69	58	50	44	61	52	45	40		40	35	32		29	26	23		19	17	15
5	63	51	44	38	56	46	39	34		36	31	27		26	23	20		17	15	13
6	58	46	38	32	51	41	34	29		32	27	23		23	20	17		15	13	12
7	53	41	33	28	47	37	30	25		29	24	20		21	18	15		14	12	10
8	49	37	30	25	44	33	27	22		26	21	18		19	16	13		13	11	9
9	46	34	27	22	41	30	24	20		24	19	16		18	14	12		12	10	8
10	43	31	24	19	38	28	22	17		22	17	14		16	13	11		11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8078	8078	8078
5°	8113	7733	7689
10°	8059	7464	7356
15°	7946	7188	7014
20°	7802	6896	6690
25°	7660	6618	6395
30°	7461	6336	6104
35°	7260	6063	5891
40°	7049	5826	5678
45°	6849	5612	5493
50°	6631	5415	5310
55°	6403	5205	5125
60°	6127	4986	4929
65°	5837	4736	4704
70°	5509	4467	4462
75°	5091	4198	4232
80°	4431	3916	3996
85°	3757	3653	3791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6849 cd/sqm

TEST NUMBER: P1029466

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	0.7
10°-20°	138.7	2.0
20°-30°	210.2	3.1
30°-40°	256.0	3.7
40°-50°	275.4	4.0
50°-60°	267.5	3.9
60°-70°	233.6	3.4
70°-80°	179.8	2.6
80°-90°	123.4	1.8
90°-100°	138.5	2.0
100°-110°	267.4	3.9
110°-120°	588.3	8.6
120°-130°	931.6	13.5
130°-140°	975.2	14.2
140°-150°	899.2	13.1
150°-160°	721.7	10.5
160°-170°	465.0	6.8
170°-180°	160.1	2.3
0°-30°	397.3	5.8
0°-40°	653.3	9.5
0°-60°	1196.2	17.4
0°-90°	1732.9	25.2
90°-120°	994.2	14.5
90°-150°	3800.3	55.2
90°-180°	5147.0	74.8
0°-180°	6880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	512	510	505	510	509	49
15°	488	490	490	496	496	137
25°	444	449	456	464	467	204
35°	382	395	409	425	430	239
45°	314	334	359	382	390	242
55°	240	267	305	332	342	215
65°	164	200	244	274	284	163
75°	91	132	180	212	221	96
85°	27	72	120	151	161	28
90°	9	65	122	158	169	10
95°	85	80	132	167	174	98
105°	374	432	138	177	190	399
115°	703	732	795	254	174	691
125°	991	1007	1053	1082	1092	884
135°	1225	1244	1263	1290	1294	946
145°	1420	1419	1440	1452	1450	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: P1029466

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.3	510.3	510.3	510.3	510.3
2.5°	514.0	511.7	506.6	510.3	508.8
5°	511.7	509.5	505.1	509.5	508.8
7.5°	508.0	506.6	502.9	508.0	507.3
10°	503.6	502.1	499.9	505.8	505.1
12.5°	496.2	497.0	495.5	501.4	500.7
15°	488.1	489.6	489.6	496.2	495.5
17.5°	477.7	480.7	482.9	489.6	489.6
20°	467.4	471.1	474.0	482.2	482.2
22.5°	456.3	460.7	465.2	473.3	474.8
25°	443.7	448.9	455.5	464.4	466.6
27.5°	428.9	437.1	444.4	455.5	457.0
30°	414.1	423.7	433.4	445.2	447.4
32.5°	397.9	409.0	420.8	434.8	439.3
35°	382.3	394.9	409.0	425.2	430.4
37.5°	365.3	379.4	397.1	414.9	420.0
40°	348.3	364.6	384.5	403.8	410.4
42.5°	332.0	348.3	372.0	393.4	400.1
45°	313.6	333.5	359.4	382.3	389.7
47.5°	295.8	317.3	346.8	370.5	378.6
50°	277.3	300.2	333.5	358.7	366.8
52.5°	259.6	284.0	319.5	345.4	354.2
55°	240.3	267.0	305.4	332.0	341.7
57.5°	221.9	251.4	289.9	318.7	328.3
60°	201.9	233.7	275.8	303.9	314.3
62.5°	184.1	217.4	259.6	289.9	299.5
65°	164.2	200.4	244.0	274.4	284.0
67.5°	146.4	184.1	228.5	258.8	269.2
70°	127.2	165.7	211.5	243.3	252.2
72.5°	109.4	149.4	196.0	227.0	238.1
75°	91.0	132.4	179.7	211.5	221.1
77.5°	73.2	116.1	164.2	196.0	206.3
80°	55.5	100.6	148.6	179.7	190.1
82.5°	40.7	85.0	133.9	164.9	174.5
85°	26.6	72.5	119.8	150.9	161.2
87.5°	16.3	60.6	108.0	138.3	147.9
90°	8.6	64.9	121.9	157.6	169.0
92.5°	37.1	71.5	120.2	151.4	161.6
95°	85.0	79.6	132.5	166.6	174.3
97.5°	147.6	79.6	142.0	172.9	183.0
100°	220.6	81.2	143.4	180.4	190.9
102.5°	300.1	322.1	140.6	180.6	192.3
105°	373.6	431.5	137.8	177.1	190.1
107.5°	460.0	508.1	135.1	173.6	186.6
110°	542.1	582.3	266.9	168.9	181.9

TEST NUMBER: P1029466

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	619.9	653.6	667.0	166.2	177.9
115°	702.7	731.5	795.2	254.0	174.5
117.5°	773.7	803.9	855.7	703.9	392.5
120°	854.0	875.2	926.7	962.0	805.9
122.5°	922.1	942.4	994.0	1021.3	1029.1
125°	990.8	1006.6	1053.3	1081.8	1092.2
127.5°	1054.1	1070.3	1108.5	1139.2	1147.1
130°	1113.7	1132.4	1161.3	1192.4	1197.1
132.5°	1174.5	1189.5	1214.0	1242.0	1246.8
135°	1224.8	1244.3	1262.7	1290.4	1293.9
137.5°	1278.4	1293.0	1308.8	1335.1	1336.7
140°	1330.7	1339.7	1354.6	1377.4	1375.7
142.5°	1374.5	1382.3	1398.1	1416.8	1414.4
145°	1420.0	1418.8	1439.5	1452.4	1450.0
147.5°	1460.2	1456.5	1477.2	1484.0	1481.5
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)