

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: P1029461

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029461
REPORT IS A COMBINATION OF REPORTS P985945 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-D1_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

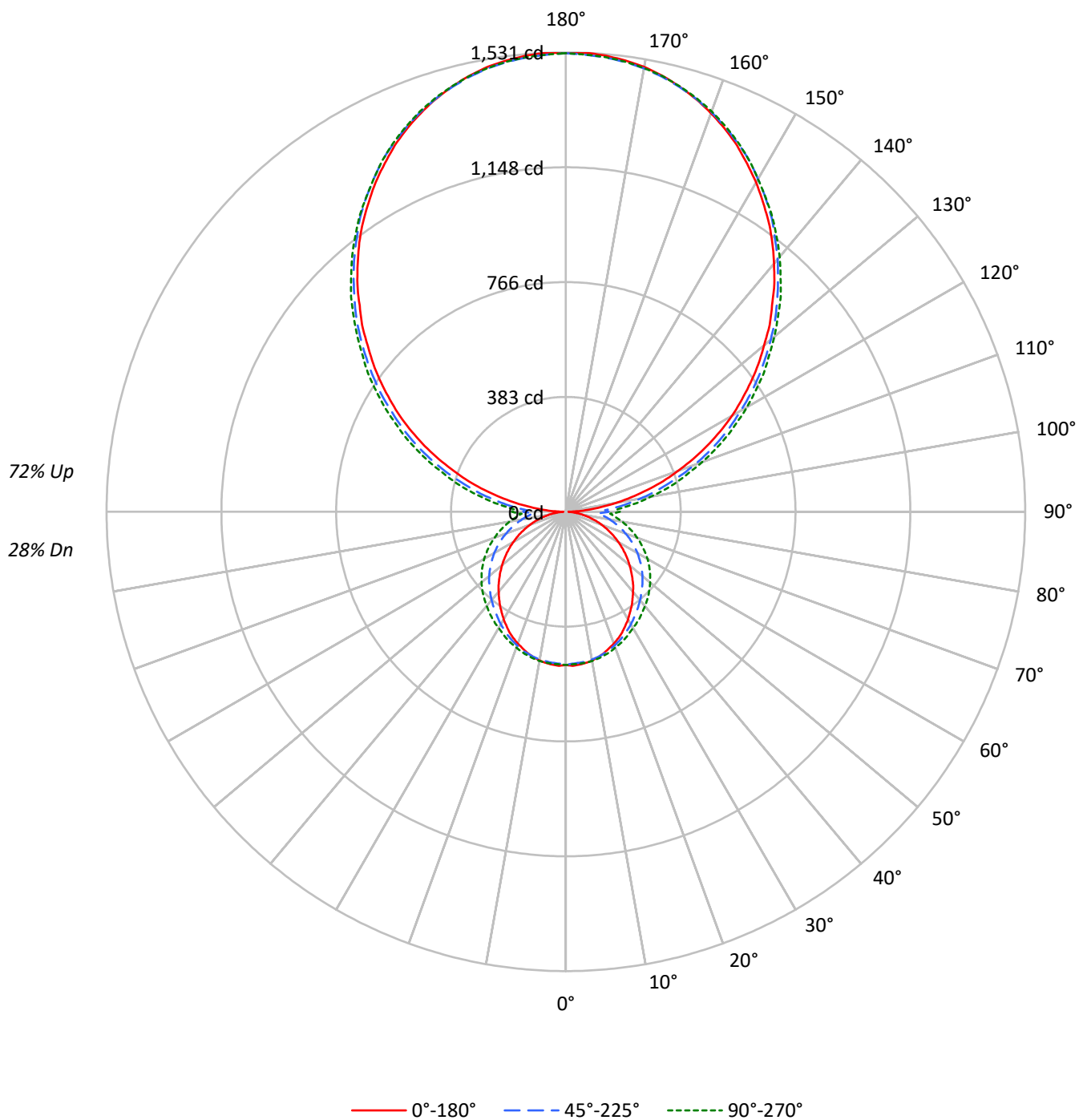
Lumens per Lamp: N/A
Luminaire Lumens: 6225.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1029461

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_4000K

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	92	87	83	80	82	78	75	72	61	58	56	45	43	42	30	29	28	22		
2	83	76	70	64	74	68	63	58	53	49	46	39	36	34	26	25	23	18		
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	19	14		
4	69	58	51	44	61	52	46	40	41	36	32	30	27	24	20	18	17	12		
5	63	52	44	38	56	46	39	34	36	31	27	27	23	21	18	16	14	10		
6	58	46	38	32	52	41	35	29	33	27	24	24	21	18	16	14	12	9		
7	54	41	34	28	48	37	30	26	29	24	21	22	18	16	15	13	11	8		
8	50	37	30	25	44	34	27	22	27	22	18	20	16	14	14	11	10	7		
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	9	6		
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8	6		

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: P1029461

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	0.8
10°-20°	138.7	2.2
20°-30°	210.2	3.4
30°-40°	256.0	4.1
40°-50°	275.4	4.4
50°-60°	267.5	4.3
60°-70°	233.6	3.8
70°-80°	179.8	2.9
80°-90°	124.8	2.0
90°-100°	177.6	2.9
100°-110°	361.3	5.8
110°-120°	554.4	8.9
120°-130°	698.8	11.2
130°-140°	768.7	12.3
140°-150°	746.2	12.0
150°-160°	624.6	10.0
160°-170°	414.3	6.7
170°-180°	144.8	2.3
0°-30°	397.3	6.4
0°-40°	653.3	10.5
0°-60°	1196.2	19.2
0°-90°	1734.3	27.9
90°-120°	1093.3	17.6
90°-150°	3307.0	53.1
90°-180°	4491.0	72.1
0°-180°	6225.0	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	67	143	170	180	9
95°	73	121	168	196	202	80
105°	281	306	347	376	384	297
115°	519	535	566	586	591	513
125°	752	764	784	800	805	672
135°	972	986	996	1010	1012	751
145°	1179	1188	1196	1202	1200	737
155°	1348	1352	1356	1362	1358	621
165°	1467	1465	1465	1474	1468	414
175°	1526	1522	1520	1529	1521	145
180°	1529	1529	1529	1529	1529	

TEST NUMBER: P1029461

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_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°	8.7	67.1	142.7	169.8	180.0
92.5°	35.1	84.6	131.0	161.1	170.0
95°	73.0	120.7	167.6	195.7	202.0
97.5°	117.4	160.8	208.9	236.2	245.1
100°	169.0	206.6	252.0	279.3	286.1
102.5°	222.4	254.5	299.7	327.6	334.4
105°	281.0	306.3	347.4	375.9	384.0
107.5°	340.4	363.2	400.2	426.7	428.4
110°	396.4	418.9	455.2	478.8	483.1

TEST NUMBER: P1029461

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	458.4	477.9	510.6	530.4	536.0
115°	519.0	534.8	565.5	586.4	590.7
117.5°	578.8	595.0	619.7	638.0	641.5
120°	639.4	652.8	672.0	692.7	697.0
122.5°	694.9	708.6	729.5	745.6	749.6
125°	752.3	763.9	783.6	799.7	805.1
127.5°	809.0	822.4	837.2	850.6	853.4
130°	861.9	877.9	890.9	906.0	906.7
132.5°	921.2	933.3	945.7	956.3	958.4
135°	972.0	986.2	996.2	1010.5	1012.5
137.5°	1028.8	1040.4	1046.7	1059.5	1059.5
140°	1079.1	1090.0	1098.0	1109.8	1109.0
142.5°	1130.7	1141.6	1145.5	1155.7	1154.2
145°	1179.0	1188.0	1195.8	1201.5	1200.0
147.5°	1222.9	1234.5	1239.6	1242.9	1240.1
150°	1268.0	1275.8	1280.9	1284.8	1280.9
152.5°	1308.0	1315.7	1322.2	1327.4	1322.2
155°	1348.0	1351.9	1355.7	1362.2	1358.3
157.5°	1382.8	1385.4	1388.0	1397.0	1390.6
160°	1413.8	1416.4	1417.7	1425.4	1420.2
162.5°	1442.2	1442.2	1443.5	1452.5	1446.0
165°	1466.7	1465.4	1465.4	1474.4	1468.0
167.5°	1488.6	1484.7	1484.7	1493.8	1487.3
170°	1505.4	1501.5	1500.2	1509.2	1501.5
172.5°	1517.0	1513.1	1511.8	1520.9	1513.1
175°	1526.0	1522.1	1519.6	1528.6	1520.9
177.5°	1531.2	1527.3	1524.7	1532.5	1524.7
180°	1528.6	1528.6	1528.6	1528.6	1528.6

(END OF REPORT)