

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: P1029502

Luminaire Tested: S122DIW-B485D1440UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029502
REPORT IS A COMBINATION OF REPORTS P986051 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D1440UB2750-4F0-XX-W2A-F1_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

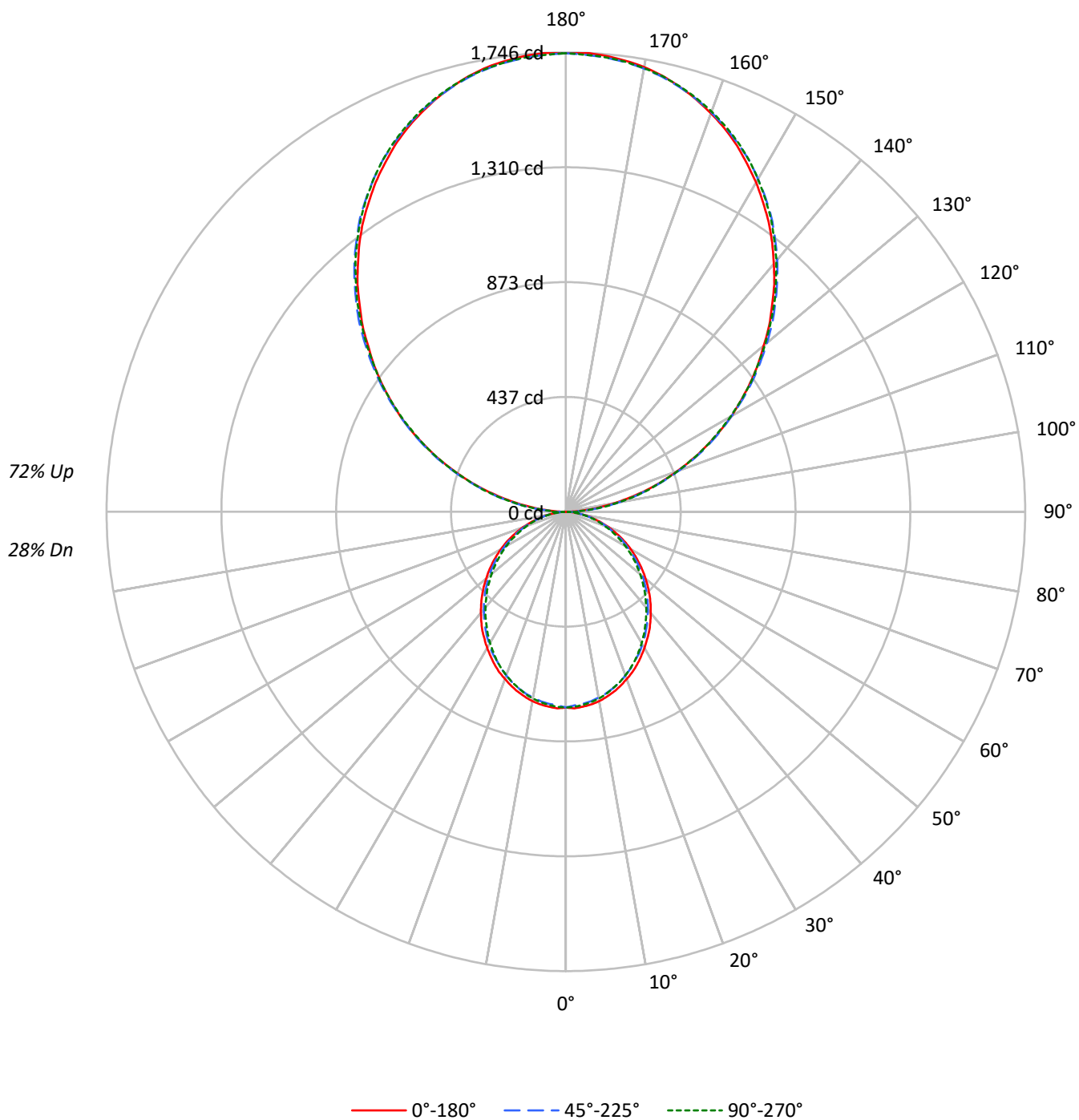
Lumens per Lamp: N/A
Luminaire Lumens: 6770.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 76.2
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	30	10
RCR																	
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	93	89	85	82	83	79	76	73	62	60	58	46	45	44	32	31	30
2	85	77	71	66	75	69	64	60	54	51	48	41	38	37	28	27	25
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19
5	64	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11772	11772	11772
5°	11791	11220	11141
10°	11695	10709	10497
15°	11524	10194	9819
20°	11291	9633	9177
25°	11061	9048	8536
30°	10771	8498	7863
35°	10497	7919	7203
40°	10160	7345	6579
45°	9824	6777	5966
50°	9455	6199	5332
55°	9070	5582	4729
60°	8636	4912	4104
65°	8159	4233	3447
70°	7557	3489	2783
75°	6718	2689	2149
80°	5708	1829	1383
85°	4139	851	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.0
10°-20°	196.9	2.9
20°-30°	289.4	4.3
30°-40°	336.1	5.0
40°-50°	335.7	5.0
50°-60°	292.7	4.3
60°-70°	216.4	3.2
70°-80°	122.4	1.8
80°-90°	37.3	0.6
90°-100°	107.8	1.6
100°-110°	342.8	5.1
110°-120°	586.5	8.7
120°-130°	771.4	11.4
130°-140°	865.8	12.8
140°-150°	849.1	12.5
150°-160°	712.2	10.5
160°-170°	472.4	7.0
170°-180°	165.1	2.4
0°-30°	556.3	8.2
0°-40°	892.4	13.2
0°-60°	1520.9	22.5
0°-90°	1897.0	28.0
90°-120°	1037.1	15.3
90°-150°	3523.4	52.0
90°-180°	4873.0	72.0
0°-180°	6770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	744	741	733	739	737	71
15°	708	704	694	697	694	199
25°	641	635	623	624	623	295
35°	553	546	534	530	526	345
45°	450	445	434	426	423	347
55°	340	336	328	319	315	304
65°	230	225	218	212	208	227
75°	120	119	115	111	112	128
85°	29	29	28	26	25	33
90°	2	19	52	48	50	7
95°	76	91	94	94	91	85
105°	316	321	324	326	326	334
115°	588	597	594	593	588	582
125°	856	869	865	860	859	765
135°	1108	1124	1127	1125	1121	856
145°	1344	1355	1364	1365	1359	840
155°	1537	1542	1546	1553	1549	708
165°	1672	1671	1671	1681	1674	472
175°	1740	1736	1733	1743	1734	165
180°	1743	1743	1743	1743	1743	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.7	743.7	743.7	743.7	743.7
2.5°	748.0	744.4	736.5	743.7	742.2
5°	743.7	740.8	732.9	738.7	737.2
7.5°	738.7	734.4	726.5	732.2	730.8
10°	730.8	725.8	717.2	722.9	720.8
12.5°	720.1	715.8	707.2	710.8	709.3
15°	707.9	703.6	694.3	697.2	693.6
17.5°	692.9	688.6	679.3	682.9	679.3
20°	676.4	672.2	662.1	664.3	661.4
22.5°	660.0	653.6	644.3	644.3	642.8
25°	640.7	635.0	622.8	624.2	622.8
27.5°	619.2	614.2	604.9	602.8	599.2
30°	597.8	592.1	581.3	579.2	576.3
32.5°	574.9	570.6	559.2	554.9	552.0
35°	552.7	545.6	534.2	529.9	526.3
37.5°	527.7	521.3	509.8	504.8	501.3
40°	502.0	496.3	484.8	478.4	475.5
42.5°	476.9	471.2	459.8	452.6	448.3
45°	449.8	444.8	434.0	426.2	423.3
47.5°	423.3	418.3	406.9	399.0	394.7
50°	395.4	391.9	381.8	371.8	368.3
52.5°	368.3	363.3	354.0	346.1	341.1
55°	340.4	336.1	327.5	318.9	315.3
57.5°	312.5	308.9	299.6	291.0	288.2
60°	284.6	281.7	271.7	263.9	261.7
62.5°	257.4	252.4	245.3	238.1	235.3
65°	229.5	225.2	218.1	211.7	208.1
67.5°	200.9	197.4	190.9	185.9	183.1
70°	174.5	171.6	165.2	160.2	157.3
72.5°	147.3	144.4	140.9	135.9	133.7
75°	120.1	118.7	115.1	110.8	112.3
77.5°	95.8	93.0	91.5	89.4	87.2
80°	71.5	70.8	69.4	67.2	65.8
82.5°	48.6	48.6	47.9	45.0	45.0
85°	29.3	28.6	27.9	25.7	25.0
87.5°	12.9	11.4	10.0	7.9	7.2
90°	1.5	19.1	51.5	48.5	50.0
92.5°	32.4	44.1	45.6	47.1	47.1
95°	76.5	91.2	94.1	94.1	91.2
97.5°	128.0	141.2	147.1	147.1	147.1
100°	186.8	198.6	203.0	203.0	201.5
102.5°	248.6	257.4	263.3	264.8	263.3
105°	316.2	320.6	323.6	326.5	326.5
107.5°	383.9	389.8	389.8	391.3	383.9
110°	448.6	457.4	457.4	457.4	453.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	519.2	528.0	526.6	522.2	519.2
115°	588.3	597.2	594.2	592.8	588.3
117.5°	657.5	669.2	661.9	657.5	653.1
120°	726.6	738.4	726.6	726.6	722.2
122.5°	789.9	804.6	797.2	792.8	789.9
125°	856.0	869.3	864.9	860.5	859.0
127.5°	920.8	936.9	931.1	925.2	920.8
130°	981.1	1000.2	997.2	994.3	988.4
132.5°	1048.7	1063.4	1064.9	1057.6	1053.1
135°	1107.6	1123.7	1126.7	1125.2	1120.8
137.5°	1172.3	1185.5	1188.5	1187.0	1181.1
140°	1229.6	1242.9	1250.2	1250.2	1244.4
142.5°	1288.5	1301.7	1306.1	1307.6	1301.7
145°	1344.4	1354.7	1363.5	1365.0	1359.1
147.5°	1394.4	1407.6	1413.5	1416.4	1410.6
150°	1445.9	1454.7	1460.6	1465.0	1460.6
152.5°	1491.5	1500.3	1507.6	1513.5	1507.6
155°	1537.1	1541.5	1545.9	1553.2	1548.8
157.5°	1576.8	1579.7	1582.7	1593.0	1585.6
160°	1612.1	1615.0	1616.5	1625.3	1619.4
162.5°	1644.4	1644.4	1645.9	1656.2	1648.8
165°	1672.4	1670.9	1670.9	1681.2	1673.8
167.5°	1697.4	1693.0	1693.0	1703.3	1695.9
170°	1716.5	1712.1	1710.6	1720.9	1712.1
172.5°	1729.7	1725.3	1723.9	1734.2	1725.3
175°	1740.0	1735.6	1732.7	1743.0	1734.2
177.5°	1745.9	1741.5	1738.6	1747.4	1738.6
180°	1743.0	1743.0	1743.0	1743.0	1743.0

(END OF REPORT)