

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: P1029462

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029462
REPORT IS A COMBINATION OF REPORTS P985946 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_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

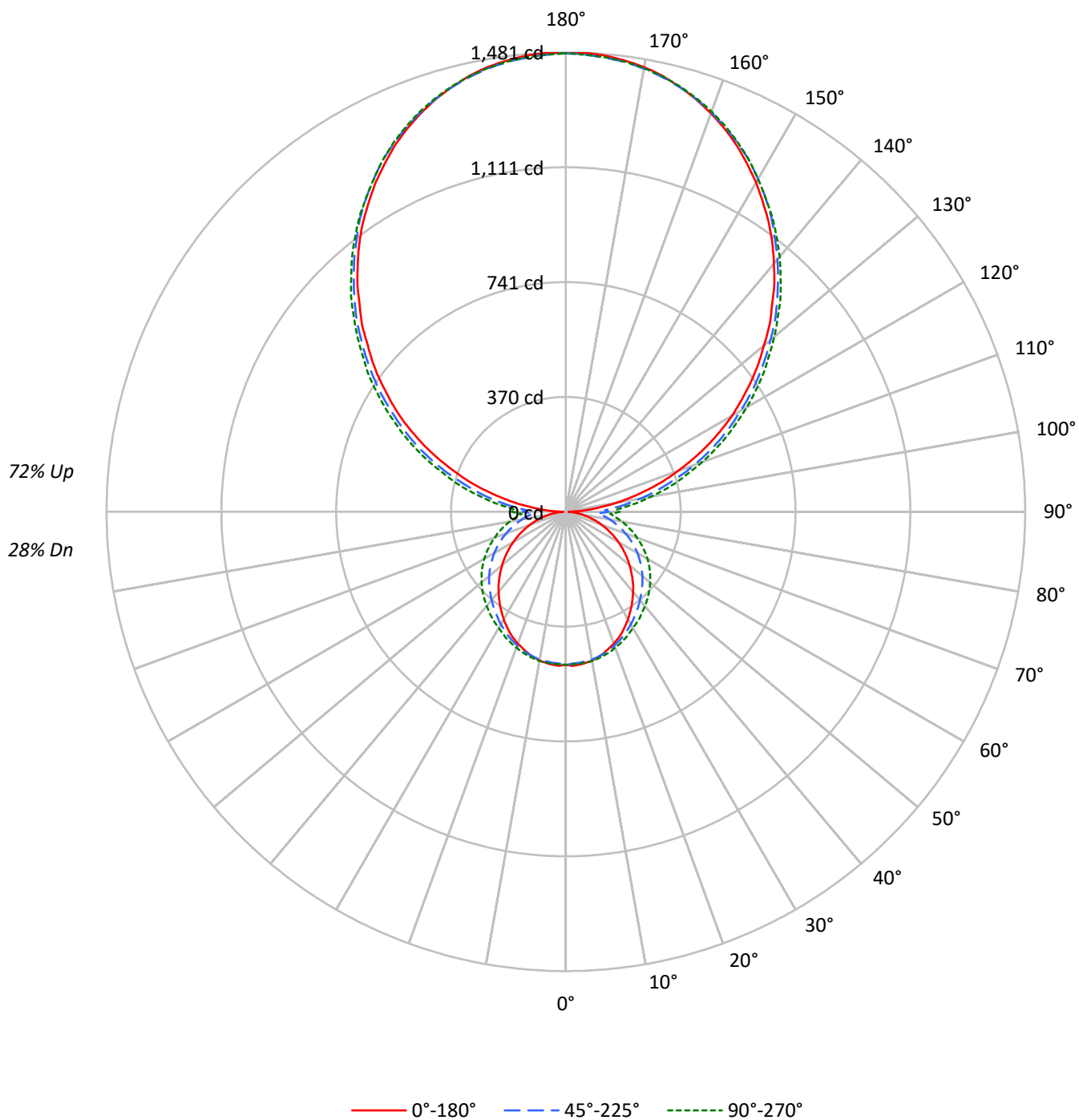
Lumens per Lamp: N/A
Luminaire Lumens: 6019.9 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	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°	7812	7812	7812
5°	7847	7478	7437
10°	7795	7220	7114
15°	7684	6952	6784
20°	7545	6669	6470
25°	7408	6401	6186
30°	7216	6127	5904
35°	7023	5863	5698
40°	6819	5635	5491
45°	6622	5428	5312
50°	6414	5238	5135
55°	6193	5035	4955
60°	5926	4824	4767
65°	5645	4580	4548
70°	5327	4319	4315
75°	4923	4060	4092
80°	4279	3789	3864
85°	3630	3534	3666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6622 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	0.8
10°-20°	134.2	2.2
20°-30°	203.3	3.4
30°-40°	247.6	4.1
40°-50°	266.4	4.4
50°-60°	258.7	4.3
60°-70°	225.9	3.8
70°-80°	173.9	2.9
80°-90°	120.7	2.0
90°-100°	171.7	2.9
100°-110°	349.4	5.8
110°-120°	536.2	8.9
120°-130°	675.7	11.2
130°-140°	743.4	12.3
140°-150°	721.6	12.0
150°-160°	604.0	10.0
160°-170°	400.6	6.7
170°-180°	140.0	2.3
0°-30°	384.3	6.4
0°-40°	631.8	10.5
0°-60°	1156.9	19.2
0°-90°	1677.3	27.9
90°-120°	1057.3	17.6
90°-150°	3198.0	53.1
90°-180°	4343.0	72.1
0°-180°	6019.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	495	493	488	493	492	47
15°	472	474	474	480	479	133
25°	429	434	441	449	451	197
35°	370	382	396	411	416	231
45°	303	323	348	370	377	234
55°	232	258	295	321	330	208
65°	159	194	236	265	275	158
75°	88	128	174	204	214	93
85°	26	70	116	146	156	27
90°	8	65	138	164	174	9
95°	71	117	162	189	195	77
105°	272	296	336	363	371	287
115°	502	517	547	567	571	496
125°	727	739	758	773	779	650
135°	940	954	963	977	979	727
145°	1140	1149	1156	1162	1160	713
155°	1304	1307	1311	1317	1314	600
165°	1418	1417	1417	1426	1420	400
175°	1476	1472	1470	1478	1471	140
180°	1478	1478	1478	1478	1478	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	493.5	493.5	493.5	493.5	493.5
2.5°	497.1	494.9	489.9	493.5	492.1
5°	494.9	492.8	488.5	492.8	492.1
7.5°	491.3	489.9	486.3	491.3	490.6
10°	487.1	485.6	483.5	489.2	488.5
12.5°	479.9	480.6	479.2	484.9	484.2
15°	472.0	473.5	473.5	479.9	479.2
17.5°	462.0	464.9	467.0	473.5	473.5
20°	452.0	455.6	458.4	466.3	466.3
22.5°	441.3	445.6	449.9	457.7	459.2
25°	429.1	434.1	440.6	449.2	451.3
27.5°	414.8	422.7	429.8	440.6	442.0
30°	400.5	409.8	419.1	430.6	432.7
32.5°	384.8	395.5	407.0	420.5	424.8
35°	369.8	381.9	395.5	411.2	416.3
37.5°	353.3	366.9	384.1	401.2	406.2
40°	336.9	352.6	371.9	390.5	396.9
42.5°	321.1	336.9	359.7	380.5	386.9
45°	303.2	322.6	347.6	369.8	376.9
47.5°	286.1	306.8	335.4	358.3	366.2
50°	268.2	290.4	322.6	346.9	354.7
52.5°	251.0	274.6	309.0	334.0	342.6
55°	232.4	258.2	295.4	321.1	330.4
57.5°	214.6	243.2	280.4	308.3	317.6
60°	195.3	226.0	266.8	294.0	304.0
62.5°	178.1	210.3	251.0	280.4	289.7
65°	158.8	193.8	236.0	265.3	274.6
67.5°	141.6	178.1	221.0	250.3	260.3
70°	123.0	160.2	204.5	235.3	243.9
72.5°	105.9	144.5	189.5	219.6	230.3
75°	88.0	128.0	173.8	204.5	213.8
77.5°	70.8	112.3	158.8	189.5	199.5
80°	53.6	97.3	143.8	173.8	183.8
82.5°	39.3	82.2	129.5	159.5	168.8
85°	25.7	70.1	115.9	145.9	155.9
87.5°	15.7	58.6	104.4	133.7	143.0
90°	8.4	64.8	138.1	164.2	174.0
92.5°	33.8	81.7	126.7	155.8	164.3
95°	70.6	116.6	162.0	189.2	195.3
97.5°	113.5	155.6	201.9	228.4	237.0
100°	163.4	199.9	243.6	270.1	276.8
102.5°	215.1	246.2	289.8	316.8	323.4
105°	271.8	296.2	335.9	363.4	371.3
107.5°	329.2	351.3	387.1	412.6	414.3
110°	383.4	405.2	440.2	463.1	467.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	443.2	462.1	493.8	512.9	518.3
115°	501.9	517.2	546.9	567.1	571.2
117.5°	559.7	575.5	599.2	617.0	620.4
120°	618.3	631.2	649.8	669.8	674.0
122.5°	672.0	685.2	705.4	721.0	725.0
125°	727.4	738.6	757.8	773.3	778.6
127.5°	782.3	795.3	809.6	822.5	825.2
130°	833.4	849.0	861.5	876.2	876.9
132.5°	890.8	902.6	914.5	924.8	926.8
135°	940.0	953.7	963.4	977.2	979.1
137.5°	994.9	1006.1	1012.2	1024.6	1024.6
140°	1043.6	1054.1	1061.7	1073.2	1072.5
142.5°	1093.5	1104.0	1107.7	1117.6	1116.2
145°	1140.2	1148.9	1156.4	1161.9	1160.5
147.5°	1182.6	1193.8	1198.8	1202.0	1199.2
150°	1226.2	1233.7	1238.7	1242.4	1238.7
152.5°	1264.9	1272.4	1278.6	1283.6	1278.6
155°	1303.6	1307.3	1311.1	1317.3	1313.5
157.5°	1337.2	1339.7	1342.2	1351.0	1344.7
160°	1367.2	1369.7	1370.9	1378.4	1373.4
162.5°	1394.6	1394.6	1395.9	1404.6	1398.4
165°	1418.3	1417.1	1417.1	1425.8	1419.6
167.5°	1439.5	1435.8	1435.8	1444.5	1438.3
170°	1455.8	1452.0	1450.8	1459.5	1452.0
172.5°	1467.0	1463.2	1462.0	1470.7	1463.2
175°	1475.7	1472.0	1469.5	1478.2	1470.7
177.5°	1480.7	1477.0	1474.5	1482.0	1474.5
180°	1478.2	1478.2	1478.2	1478.2	1478.2

(END OF REPORT)