

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: P1029467

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029467
REPORT IS A COMBINATION OF REPORTS P985956 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_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

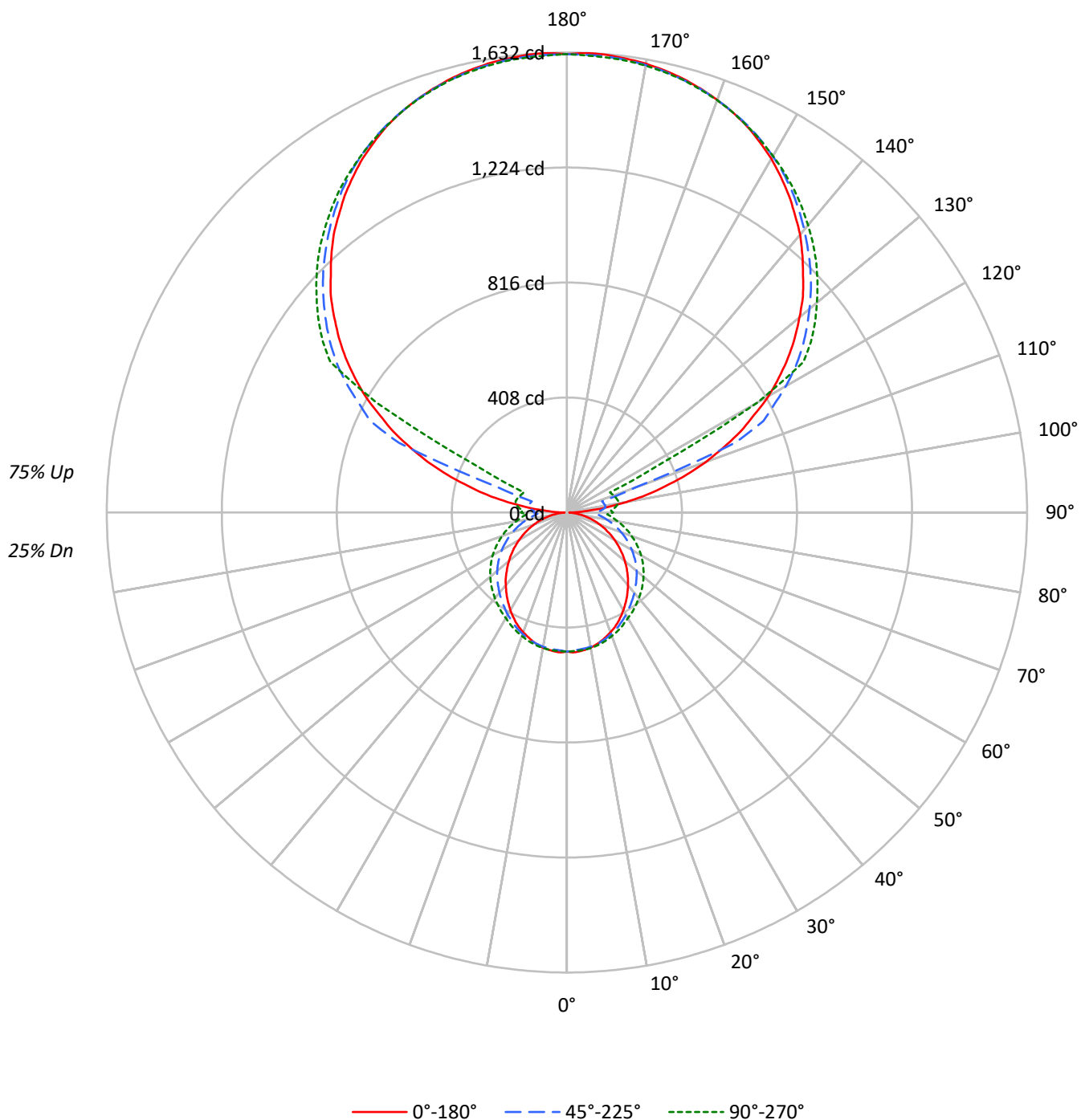
Lumens per Lamp: N/A
Luminaire Lumens: 6653.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
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°	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	0.7
10°-20°	134.2	2.0
20°-30°	203.3	3.1
30°-40°	247.6	3.7
40°-50°	266.4	4.0
50°-60°	258.7	3.9
60°-70°	225.9	3.4
70°-80°	173.9	2.6
80°-90°	119.3	1.8
90°-100°	134.0	2.0
100°-110°	258.6	3.9
110°-120°	568.9	8.6
120°-130°	900.8	13.5
130°-140°	943.0	14.2
140°-150°	869.5	13.1
150°-160°	697.9	10.5
160°-170°	449.7	6.8
170°-180°	154.8	2.3
0°-30°	384.3	5.8
0°-40°	631.8	9.5
0°-60°	1156.9	17.4
0°-90°	1675.9	25.2
90°-120°	961.4	14.5
90°-150°	3674.7	55.2
90°-180°	4977.0	74.8
0°-180°	6653.0	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	63	118	152	163	9
95°	82	77	128	161	169	95
105°	361	417	133	171	184	386
115°	680	707	769	246	169	669
125°	958	973	1018	1046	1056	855
135°	1184	1203	1221	1248	1251	915
145°	1373	1372	1392	1404	1402	859
155°	1512	1501	1516	1523	1513	697
165°	1593	1586	1590	1598	1590	450
175°	1630	1621	1624	1632	1620	155
180°	1626	1626	1626	1626	1626	

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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	62.7	117.9	152.4	163.4
92.5°	35.8	69.0	116.2	146.5	156.2
95°	82.2	77.0	128.1	161.2	168.6
97.5°	142.7	77.0	137.2	167.2	177.0
100°	213.3	78.6	138.6	174.5	184.7
102.5°	290.2	311.5	135.9	174.7	186.0
105°	361.3	417.3	133.3	171.2	183.8
107.5°	444.8	491.3	130.6	167.9	180.5
110°	524.1	563.2	258.1	163.3	176.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	599.4	632.0	644.9	160.7	172.1
115°	679.5	707.3	768.9	245.6	168.7
117.5°	748.1	777.4	827.4	680.7	379.5
120°	825.7	846.3	896.1	930.2	779.2
122.5°	891.6	911.3	961.2	987.5	995.2
125°	958.0	973.3	1018.5	1046.1	1056.1
127.5°	1019.2	1035.0	1071.9	1101.6	1109.1
130°	1076.8	1095.0	1122.9	1153.0	1157.6
132.5°	1135.7	1150.3	1173.9	1201.0	1205.5
135°	1184.4	1203.2	1221.0	1247.8	1251.1
137.5°	1236.2	1250.3	1265.6	1291.0	1292.5
140°	1286.8	1295.5	1309.8	1331.9	1330.3
142.5°	1329.1	1336.6	1351.9	1370.0	1367.7
145°	1373.1	1371.9	1391.9	1404.5	1402.2
147.5°	1411.9	1408.4	1428.4	1435.0	1432.5
150°	1449.6	1441.4	1460.2	1467.3	1461.4
152.5°	1481.4	1472.0	1489.6	1496.7	1488.4
155°	1512.0	1501.4	1515.5	1522.6	1513.1
157.5°	1536.7	1527.3	1537.8	1546.1	1536.7
160°	1557.9	1550.8	1557.9	1564.9	1556.7
162.5°	1576.7	1569.6	1575.5	1583.7	1573.1
165°	1593.1	1586.1	1589.6	1597.9	1589.6
167.5°	1606.1	1599.0	1602.6	1610.8	1600.2
170°	1616.7	1609.6	1612.0	1620.2	1609.6
172.5°	1623.7	1616.7	1619.0	1627.3	1616.7
175°	1629.6	1621.4	1623.7	1632.0	1620.2
177.5°	1632.0	1623.7	1624.9	1633.2	1622.6
180°	1626.1	1626.1	1626.1	1626.1	1626.1

(END OF REPORT)