

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: P1029492

Luminaire Tested: S122DIW-B485D1440UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029492
REPORT IS A COMBINATION OF REPORTS P986036 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-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

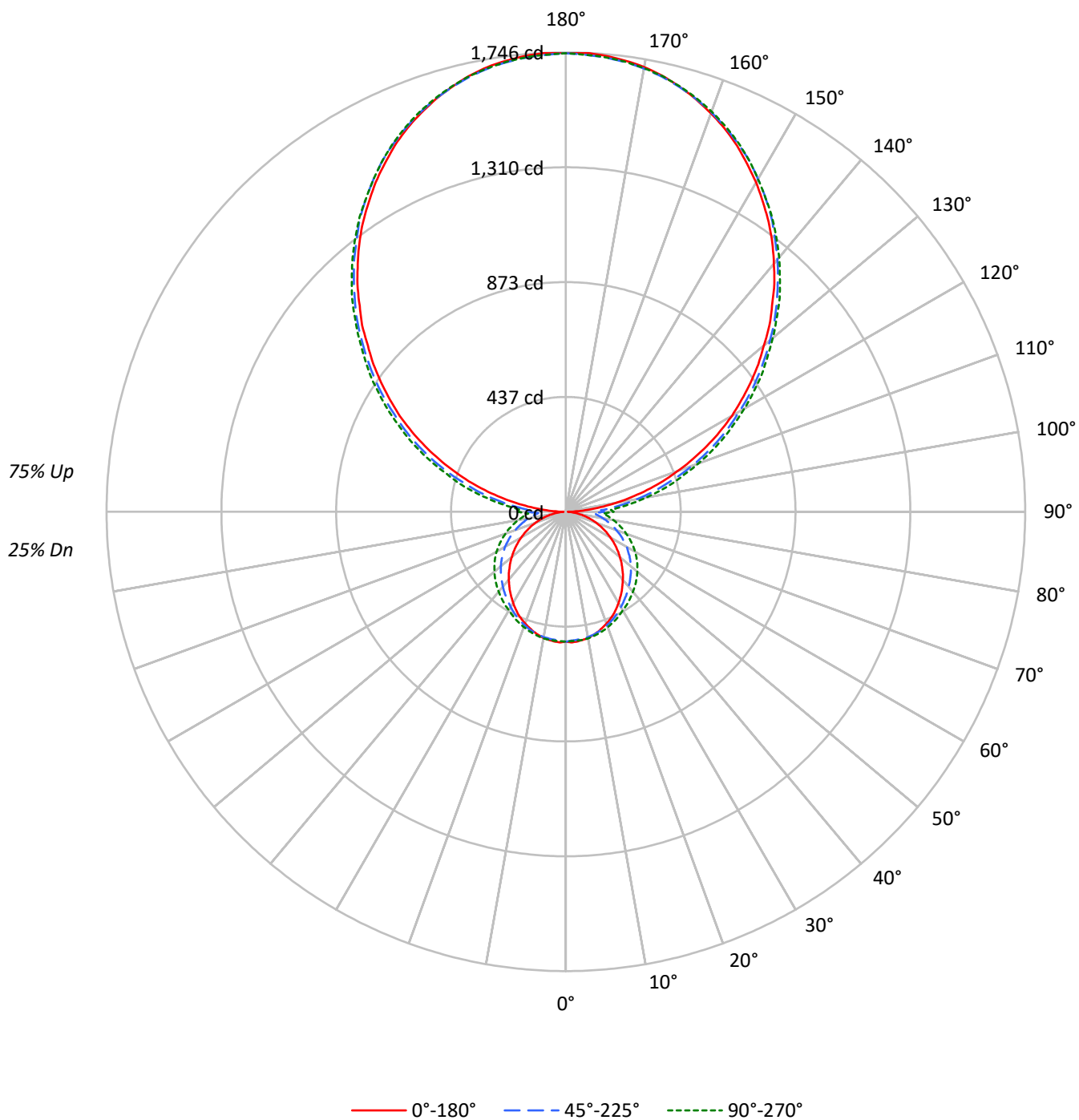
Lumens per Lamp: N/A
Luminaire Lumens: 6761.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	50	30	10
RCR																				
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33			25
1	91	87	83	79	81	77	74	71	59	57	55	43	42	40	28	27	26			19
2	83	75	69	64	73	67	62	58	52	48	45	37	35	33	24	23	22			16
3	75	66	59	53	67	59	53	48	45	41	37	33	30	28	21	19	18			13
4	69	58	50	44	61	52	45	40	40	35	32	29	26	23	19	17	15			11
5	63	51	43	38	56	46	39	34	36	31	27	26	23	20	17	15	13			9
6	58	46	38	32	51	41	34	29	32	27	23	23	20	17	15	13	11			8
7	53	41	33	28	47	37	30	25	29	24	20	21	18	15	14	12	10			7
8	49	37	30	24	44	33	27	22	26	21	18	19	16	13	13	10	9			6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	12	9	8			6
10	43	31	24	19	38	28	22	17	22	17	14	16	13	11	11	9	7			5

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	3.0
30°-40°	247.6	3.7
40°-50°	266.4	3.9
50°-60°	258.7	3.8
60°-70°	225.9	3.3
70°-80°	173.9	2.6
80°-90°	121.4	1.8
90°-100°	188.1	2.8
100°-110°	401.4	5.9
110°-120°	625.3	9.2
120°-130°	792.9	11.7
130°-140°	874.9	12.9
140°-150°	850.6	12.6
150°-160°	712.2	10.5
160°-170°	472.4	7.0
170°-180°	165.1	2.4
0°-30°	384.3	5.7
0°-40°	631.8	9.3
0°-60°	1156.9	17.1
0°-90°	1678.0	24.8
90°-120°	1214.8	18.0
90°-150°	3733.3	55.2
90°-180°	5083.0	75.2
0°-180°	6761.0	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°	9	68	146	172	182	10
95°	82	130	176	204	209	90
105°	320	345	385	413	421	338
115°	591	608	637	657	660	585
125°	857	871	889	904	909	766
135°	1108	1124	1135	1148	1149	857
145°	1344	1355	1364	1369	1367	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°	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°	8.7	67.7	145.9	171.5	181.6
92.5°	38.8	88.4	133.6	163.0	171.5
95°	82.2	130.5	176.3	203.5	209.2
97.5°	133.0	177.0	224.3	250.8	259.4
100°	191.8	230.1	274.5	301.0	307.4
102.5°	252.9	285.3	329.8	357.1	363.4
105°	319.8	344.9	385.1	413.0	420.9
107.5°	387.5	410.5	446.3	472.1	472.6
110°	451.5	474.6	509.6	532.5	536.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	522.1	542.3	573.8	592.3	597.2
115°	591.2	607.9	637.1	657.2	660.5
117.5°	659.6	677.1	699.8	716.9	719.6
120°	728.7	743.4	760.2	780.2	783.7
122.5°	792.0	807.5	826.5	841.4	845.0
125°	857.4	870.7	889.2	904.1	909.1
127.5°	922.2	937.6	951.1	963.1	965.1
130°	982.5	1000.9	1012.9	1027.2	1027.0
132.5°	1050.1	1064.1	1076.3	1085.5	1086.7
135°	1108.3	1124.4	1134.6	1148.1	1149.4
137.5°	1173.0	1186.2	1192.8	1204.9	1204.0
140°	1230.3	1242.9	1251.6	1263.1	1261.6
142.5°	1289.2	1301.7	1306.1	1316.2	1313.9
145°	1344.4	1354.7	1363.5	1369.3	1367.0
147.5°	1394.4	1407.6	1413.5	1417.1	1413.5
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)