

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: P1029494

Luminaire Tested: S122DIW-B485D1440UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029494
REPORT IS A COMBINATION OF REPORTS P986043 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-D_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

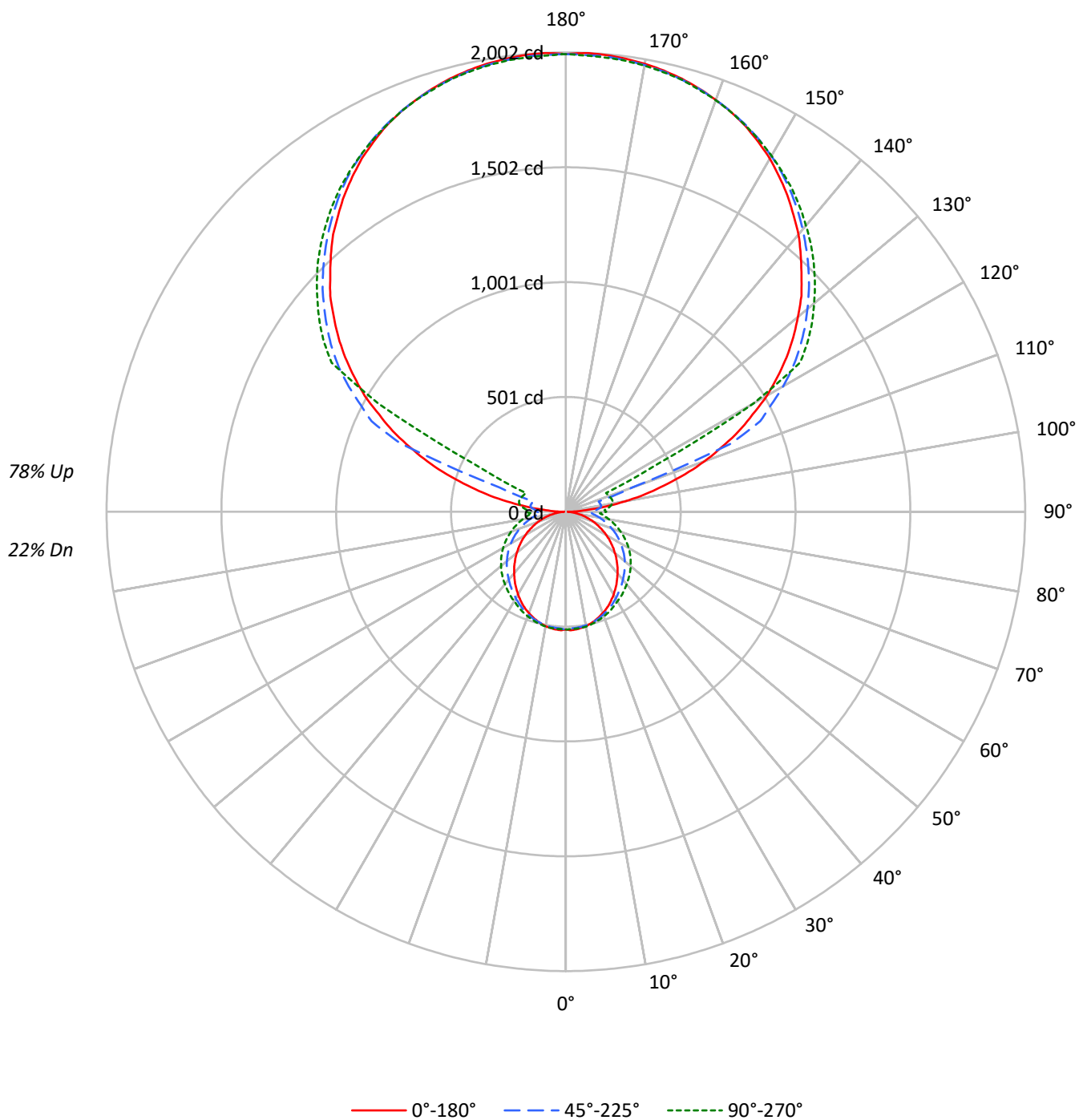
Lumens per Lamp: N/A
Luminaire Lumens: 7808.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	89	89	89	89	68	68	68	49	49	49	31	31	31			22
1	91	86	82	79	80	77	73	70	58	56	54	42	40	39	26	25	25			17
2	82	75	69	64	73	67	61	57	51	47	44	36	34	32	22	21	20			14
3	75	66	58	53	66	58	52	47	44	40	37	32	29	27	20	18	17			12
4	68	58	50	44	60	51	45	40	39	35	31	28	25	23	17	16	14			10
5	63	51	43	37	55	46	39	34	35	30	26	25	22	19	16	14	12			8
6	57	46	38	32	51	41	34	29	31	26	23	22	19	17	14	12	11			7
7	53	41	33	28	47	37	30	25	28	23	20	20	17	15	13	11	9			6
8	49	37	30	24	43	33	27	22	25	21	17	18	15	13	12	10	8			6
9	45	34	26	21	40	30	24	19	23	19	15	17	14	11	11	9	7			5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	10	8	7			5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.6
10°-20°	139.5	1.8
20°-30°	211.4	2.7
30°-40°	257.4	3.3
40°-50°	277.0	3.5
50°-60°	269.0	3.4
60°-70°	234.9	3.0
70°-80°	180.8	2.3
80°-90°	124.6	1.6
90°-100°	149.3	1.9
100°-110°	306.2	3.9
110°-120°	690.4	8.8
120°-130°	1100.8	14.1
130°-140°	1154.8	14.8
140°-150°	1066.1	13.7
150°-160°	855.9	11.0
160°-170°	551.5	7.1
170°-180°	189.8	2.4
0°-30°	399.6	5.1
0°-40°	657.0	8.4
0°-60°	1202.9	15.4
0°-90°	1743.2	22.3
90°-120°	1145.9	14.7
90°-150°	4467.6	57.2
90°-180°	6065.0	77.7
0°-180°	7808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	9	68	127	164	176	11
95°	100	87	142	177	185	116
105°	442	507	152	194	208	473
115°	833	866	935	289	193	819
125°	1175	1193	1245	1275	1286	1048
135°	1452	1476	1496	1526	1529	1122
145°	1684	1683	1707	1722	1718	1053
155°	1854	1841	1859	1867	1856	854
165°	1954	1945	1950	1960	1950	552
175°	1999	1988	1991	2002	1987	190
180°	1994	1994	1994	1994	1994	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.1	513.1	513.1	513.1	513.1
2.5°	516.9	514.6	509.4	513.1	511.7
5°	514.6	512.4	507.9	512.4	511.7
7.5°	510.9	509.4	505.7	510.9	510.2
10°	506.5	505.0	502.7	508.7	507.9
12.5°	499.0	499.8	498.3	504.2	503.5
15°	490.8	492.3	492.3	499.0	498.3
17.5°	480.4	483.4	485.6	492.3	492.3
20°	470.0	473.7	476.7	484.9	484.9
22.5°	458.9	463.3	467.8	476.0	477.5
25°	446.2	451.4	458.1	467.0	469.3
27.5°	431.3	439.5	447.0	458.1	459.6
30°	416.5	426.1	435.8	447.7	449.9
32.5°	400.1	411.3	423.2	437.3	441.8
35°	384.5	397.1	411.3	427.6	432.8
37.5°	367.4	381.5	399.4	417.2	422.4
40°	350.3	366.6	386.7	406.1	412.8
42.5°	333.9	350.3	374.1	395.6	402.3
45°	315.3	335.4	361.4	384.5	391.9
47.5°	297.5	319.0	348.8	372.6	380.8
50°	278.9	301.9	335.4	360.7	368.9
52.5°	261.0	285.6	321.3	347.3	356.2
55°	241.7	268.5	307.1	333.9	343.6
57.5°	223.1	252.9	291.5	320.5	330.2
60°	203.0	235.0	277.4	305.7	316.1
62.5°	185.2	218.6	261.0	291.5	301.2
65°	165.1	201.5	245.4	275.9	285.6
67.5°	147.3	185.2	229.8	260.3	270.7
70°	127.9	166.6	212.7	244.7	253.6
72.5°	110.1	150.2	197.1	228.3	239.5
75°	91.5	133.1	180.7	212.7	222.4
77.5°	73.6	116.8	165.1	197.1	207.5
80°	55.8	101.1	149.5	180.7	191.1
82.5°	40.9	85.5	134.6	165.8	175.5
85°	26.8	72.9	120.5	151.7	162.1
87.5°	16.4	61.0	108.6	139.1	148.7
90°	8.8	67.9	127.1	164.0	175.8
92.5°	42.8	76.4	126.1	158.0	168.4
95°	99.7	87.1	141.8	177.3	184.8
97.5°	174.0	87.7	153.9	185.7	196.2
100°	260.6	90.4	156.7	195.7	206.8
102.5°	355.2	376.8	154.3	196.9	209.4
105°	442.4	507.3	152.0	193.9	207.9
107.5°	544.8	598.8	149.7	190.8	204.8
110°	642.3	687.4	306.8	186.3	200.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	734.6	772.5	782.2	184.0	196.5
115°	832.7	865.5	934.9	289.1	193.4
117.5°	917.1	951.9	1007.7	823.6	453.0
120°	1012.3	1037.0	1092.7	1130.9	944.2
122.5°	1093.1	1117.0	1173.4	1202.1	1210.3
125°	1174.7	1193.4	1244.7	1274.9	1285.9
127.5°	1249.7	1269.1	1310.9	1343.9	1352.0
130°	1320.4	1342.7	1374.3	1408.0	1412.5
132.5°	1392.6	1410.5	1437.6	1467.7	1472.3
135°	1452.4	1475.5	1496.0	1526.0	1529.0
137.5°	1515.9	1533.2	1551.4	1580.0	1580.8
140°	1577.9	1588.8	1606.1	1631.0	1628.2
142.5°	1629.9	1639.3	1658.0	1678.5	1675.0
145°	1684.0	1682.6	1707.1	1721.7	1718.2
147.5°	1731.6	1727.3	1751.8	1759.8	1756.3
150°	1777.8	1767.7	1790.8	1799.5	1792.2
152.5°	1816.8	1805.2	1826.9	1835.5	1825.4
155°	1854.3	1841.3	1858.6	1867.3	1855.7
157.5°	1884.6	1873.1	1886.0	1896.1	1884.6
160°	1910.6	1901.9	1910.6	1919.2	1909.1
162.5°	1933.7	1925.0	1932.2	1942.3	1929.3
165°	1953.9	1945.2	1949.5	1959.6	1949.5
167.5°	1969.7	1961.1	1965.4	1975.5	1962.5
170°	1982.7	1974.1	1977.0	1987.1	1974.1
172.5°	1991.4	1982.7	1985.6	1995.7	1982.7
175°	1998.6	1988.5	1991.4	2001.5	1987.1
177.5°	2001.5	1991.4	1992.8	2002.9	1989.9
180°	1994.3	1994.3	1994.3	1994.3	1994.3

(END OF REPORT)