

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: P1029357

Luminaire Tested: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029357
REPORT IS A COMBINATION OF REPORTS P985608 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_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

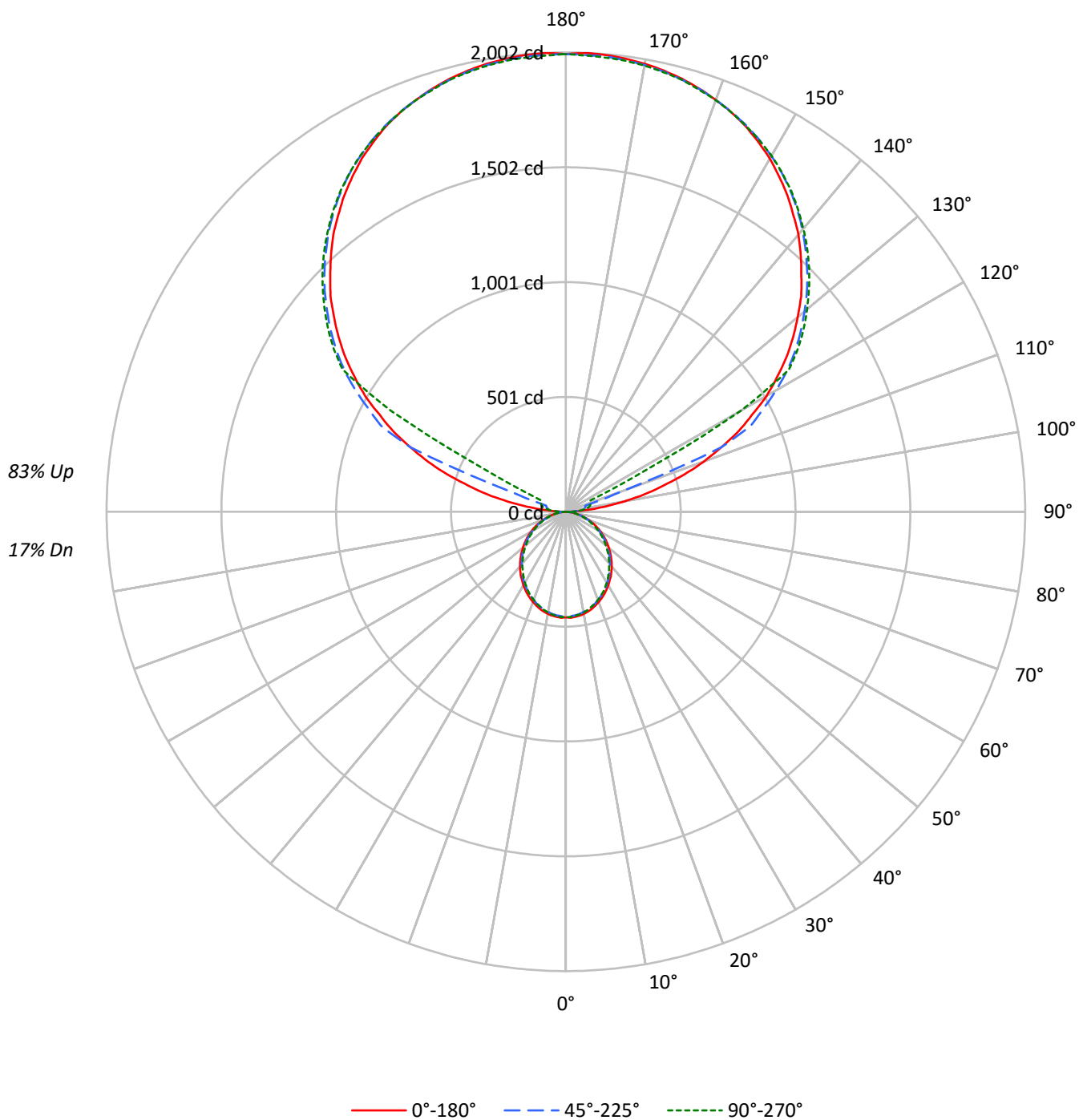
Lumens per Lamp: N/A
Luminaire Lumens: 7020.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
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	99	99	99	99	87	87	87	87	65	65	65	44	44	44	26	26	26
1	90	86	83	79	79	76	73	70	57	55	53	39	38	37	22	22	21
2	82	75	69	65	72	66	62	57	50	46	44	34	32	31	20	19	18
3	75	66	59	54	66	58	52	48	44	40	37	30	28	26	18	16	15
4	68	58	51	45	60	51	45	40	39	34	31	27	24	22	16	14	13
5	63	52	44	38	55	46	39	34	34	30	27	24	21	19	14	13	11
6	57	46	38	33	50	41	34	30	31	26	23	21	19	16	13	11	10
7	53	41	34	29	46	37	30	26	28	23	20	19	17	14	12	10	9
8	49	37	30	25	43	33	27	23	25	21	18	18	15	13	11	9	8
9	45	34	27	22	40	30	24	20	23	19	16	16	13	11	10	8	7
10	42	31	24	20	37	28	22	18	21	17	14	15	12	10	9	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7280	7280	7280
5°	7292	6938	6890
10°	7232	6622	6491
15°	7127	6304	6072
20°	6983	5958	5675
25°	6840	5595	5278
30°	6661	5255	4863
35°	6491	4896	4455
40°	6282	4542	4069
45°	6074	4191	3690
50°	5847	3833	3296
55°	5609	3451	2925
60°	5341	3037	2537
65°	5044	2618	2132
70°	4673	2156	1721
75°	4156	1663	1328
80°	3529	1131	856
85°	2557	524	364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	0.6
10°-20°	121.8	1.7
20°-30°	179.0	2.5
30°-40°	207.9	3.0
40°-50°	207.6	3.0
50°-60°	181.0	2.6
60°-70°	133.8	1.9
70°-80°	75.7	1.1
80°-90°	23.5	0.3
90°-100°	65.8	0.9
100°-110°	245.1	3.5
110°-120°	650.1	9.3
120°-130°	1078.3	15.4
130°-140°	1145.4	16.3
140°-150°	1064.6	15.2
150°-160°	855.9	12.2
160°-170°	551.5	7.9
170°-180°	189.8	2.7
0°-30°	344.0	4.9
0°-40°	551.9	7.9
0°-60°	940.5	13.4
0°-90°	1173.5	16.7
90°-120°	961.1	13.7
90°-150°	4249.3	60.5
90°-180°	5846.0	83.3
0°-180°	7020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	460	458	453	457	456	44
15°	438	435	429	431	429	123
25°	396	393	385	386	385	182
35°	342	337	330	328	326	213
45°	278	275	268	264	262	215
55°	210	208	202	197	195	188
65°	142	139	135	131	129	140
75°	74	73	71	68	69	79
85°	18	18	17	16	16	20
90°	1	17	29	36	39	6
95°	94	46	56	64	62	111
105°	439	482	88	104	110	469
115°	830	854	890	222	118	817
125°	1173	1192	1219	1230	1234	1046
135°	1452	1475	1488	1502	1499	1121
145°	1684	1683	1707	1717	1710	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°	459.9	459.9	459.9	459.9	459.9
2.5°	462.5	460.3	455.5	459.9	459.0
5°	459.9	458.1	453.2	456.8	455.9
7.5°	456.8	454.1	449.3	452.8	451.9
10°	451.9	448.8	443.5	447.1	445.7
12.5°	445.3	442.6	437.3	439.5	438.7
15°	437.8	435.1	429.4	431.1	428.9
17.5°	428.5	425.8	420.1	422.3	420.1
20°	418.3	415.7	409.5	410.8	409.0
22.5°	408.1	404.2	398.4	398.4	397.5
25°	396.2	392.7	385.1	386.0	385.1
27.5°	382.9	379.8	374.1	372.8	370.6
30°	369.7	366.1	359.5	358.2	356.4
32.5°	355.5	352.9	345.8	343.1	341.4
35°	341.8	337.4	330.3	327.7	325.5
37.5°	326.3	322.4	315.3	312.2	310.0
40°	310.4	306.9	299.8	295.8	294.1
42.5°	294.9	291.4	284.3	279.9	277.3
45°	278.1	275.0	268.4	263.5	261.8
47.5°	261.8	258.7	251.6	246.7	244.1
50°	244.5	242.3	236.1	229.9	227.7
52.5°	227.7	224.6	218.9	214.0	210.9
55°	210.5	207.8	202.5	197.2	195.0
57.5°	193.2	191.0	185.3	180.0	178.2
60°	176.0	174.2	168.0	163.2	161.8
62.5°	159.2	156.1	151.7	147.2	145.5
65°	141.9	139.3	134.9	130.9	128.7
67.5°	124.3	122.0	118.1	115.0	113.2
70°	107.9	106.1	102.1	99.1	97.3
72.5°	91.1	89.3	87.1	84.0	82.7
75°	74.3	73.4	71.2	68.5	69.4
77.5°	59.3	57.5	56.6	55.3	53.9
80°	44.2	43.8	42.9	41.6	40.7
82.5°	30.1	30.1	29.6	27.9	27.9
85°	18.1	17.7	17.2	15.9	15.5
87.5°	8.0	7.1	6.2	4.9	4.4
90°	1.4	17.3	28.9	36.1	39.0
92.5°	36.1	30.3	34.6	37.5	39.0
95°	93.8	46.2	56.3	63.5	62.1
97.5°	168.8	50.5	73.6	77.9	79.4
100°	255.4	57.7	82.3	93.8	96.7
102.5°	350.7	347.8	85.1	101.0	105.3
105°	438.7	482.0	88.0	103.9	109.7
107.5°	541.1	577.2	90.9	106.8	112.6
110°	639.3	669.6	252.5	108.2	114.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	731.6	757.6	733.1	111.1	115.4
115°	829.7	854.3	890.3	222.2	118.3
117.5°	914.9	943.7	968.3	761.9	383.8
120°	1010.1	1031.8	1057.7	1075.1	880.2
122.5°	1090.9	1114.0	1142.9	1151.5	1153.0
125°	1173.2	1191.9	1219.4	1229.5	1233.8
127.5°	1248.2	1268.4	1290.1	1304.5	1305.9
130°	1318.9	1342.0	1357.9	1373.8	1372.3
132.5°	1391.1	1409.8	1425.7	1438.7	1437.3
135°	1451.7	1474.8	1487.8	1502.2	1499.3
137.5°	1515.2	1532.5	1546.9	1561.4	1557.0
140°	1577.2	1588.8	1604.6	1617.6	1610.4
142.5°	1629.2	1639.3	1658.0	1669.6	1662.4
145°	1684.0	1682.6	1707.1	1717.2	1710.0
147.5°	1731.6	1727.3	1751.8	1759.1	1753.3
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)