

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: P1029651

Luminaire Tested: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029651
REPORT IS A COMBINATION OF REPORTS P986508 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D1440UB2750-4F0-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

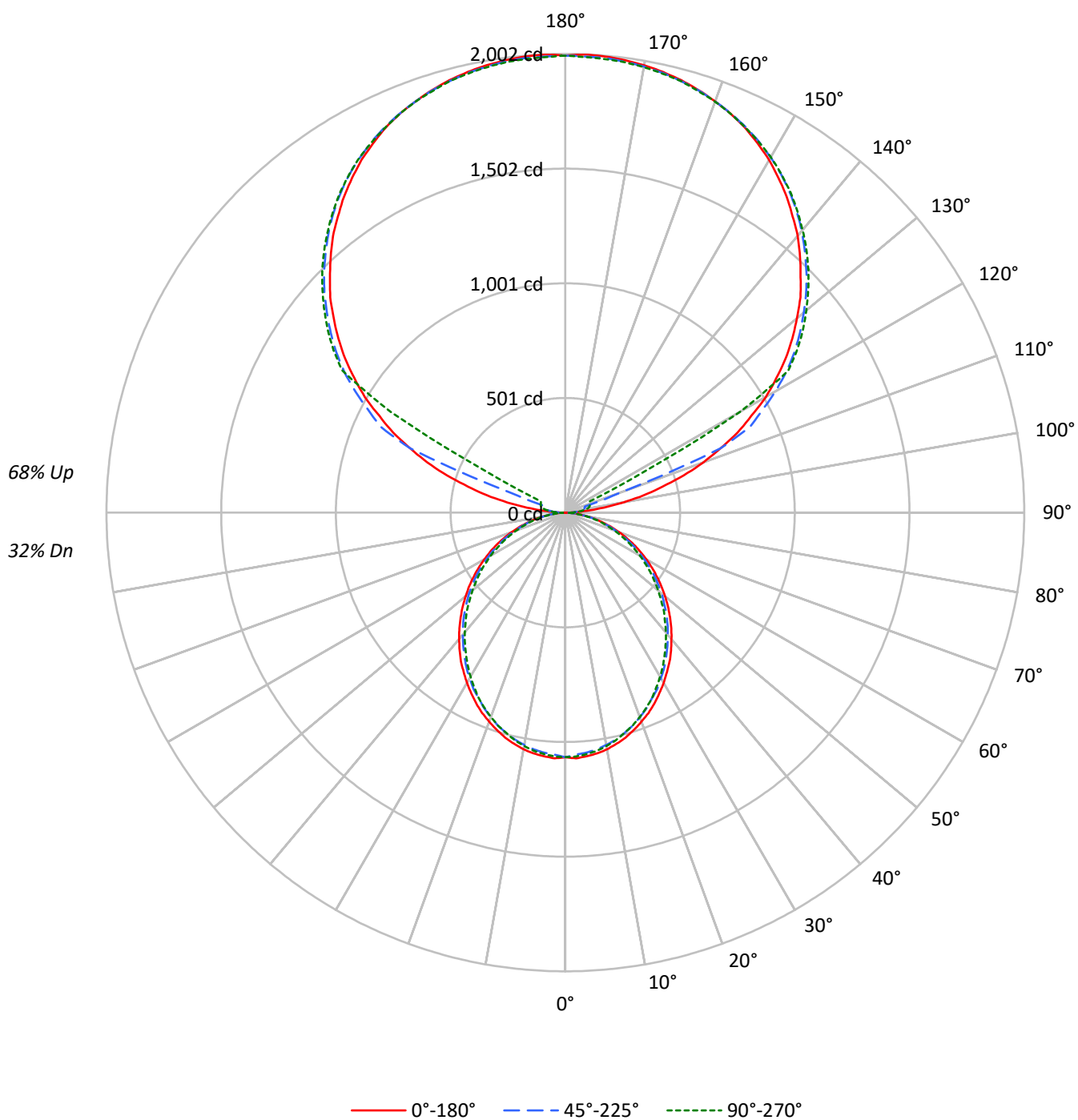
Lumens per Lamp: N/A
Luminaire Lumens: 8565.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 88.1
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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33
2	85	78	72	67	76	70	65	61	56	53	50	43	41	38	31	29	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	12
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16891	16891	16891
5°	16919	16102	15987
10°	16782	15368	15062
15°	16536	14627	14090
20°	16204	13824	13168
25°	15873	12984	12249
30°	15456	12195	11284
35°	15064	11362	10336
40°	14578	10541	9441
45°	14096	9725	8563
50°	13569	8896	7650
55°	13014	8010	6787
60°	12393	7049	5890
65°	11710	6075	4946
70°	10844	5005	3993
75°	9644	3859	3084
80°	8191	2622	1985
85°	5947	1220	844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.2
10°-20°	282.6	3.3
20°-30°	415.3	4.8
30°-40°	482.3	5.6
40°-50°	481.7	5.6
50°-60°	420.0	4.9
60°-70°	310.5	3.6
70°-80°	175.7	2.1
80°-90°	49.9	0.6
90°-100°	65.8	0.8
100°-110°	245.1	2.9
110°-120°	650.1	7.6
120°-130°	1078.3	12.6
130°-140°	1145.4	13.4
140°-150°	1064.6	12.4
150°-160°	855.9	10.0
160°-170°	551.5	6.4
170°-180°	189.8	2.2
0°-30°	798.3	9.3
0°-40°	1280.6	15.0
0°-60°	2182.4	25.5
0°-90°	2718.5	31.7
90°-120°	961.1	11.2
90°-150°	4249.3	49.6
90°-180°	5846.0	68.3
0°-180°	8565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1067	1063	1052	1060	1058	101
15°	1016	1010	996	1000	995	286
25°	919	911	894	896	894	423
35°	793	783	766	760	755	495
45°	645	638	623	612	608	498
55°	488	482	470	458	452	437
65°	329	323	313	304	299	326
75°	172	170	165	159	161	184
85°	42	41	40	37	36	47
90°	1	17	29	36	39	8
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°	1067.1	1067.1	1067.1	1067.1	1067.1
2.5°	1073.3	1068.2	1056.9	1067.1	1065.1
5°	1067.1	1063.0	1051.8	1060.0	1057.9
7.5°	1060.0	1053.8	1042.5	1050.7	1048.7
10°	1048.7	1041.5	1029.2	1037.4	1034.3
12.5°	1033.3	1027.1	1014.8	1019.9	1017.9
15°	1015.8	1009.7	996.3	1000.5	995.3
17.5°	994.3	988.1	974.8	979.9	974.8
20°	970.7	964.5	950.2	953.3	949.1
22.5°	947.1	937.9	924.5	924.5	922.5
25°	919.4	911.2	893.7	895.8	893.7
27.5°	888.6	881.4	868.1	865.0	859.9
30°	857.8	849.6	834.2	831.1	827.0
32.5°	825.0	818.8	802.4	796.3	792.2
35°	793.2	782.9	766.5	760.3	755.2
37.5°	757.3	748.0	731.6	724.4	719.3
40°	720.3	712.1	695.7	686.5	682.4
42.5°	684.4	676.2	659.8	649.5	643.4
45°	645.4	638.2	622.8	611.6	607.5
47.5°	607.5	600.3	583.9	572.6	566.4
50°	567.4	562.3	547.9	533.6	528.4
52.5°	528.4	521.3	507.9	496.6	489.5
55°	488.4	482.3	470.0	457.6	452.5
57.5°	448.4	443.3	429.9	417.6	413.5
60°	408.4	404.3	389.9	378.6	375.6
62.5°	369.4	362.2	352.0	341.7	337.6
65°	329.4	323.2	313.0	303.7	298.6
67.5°	288.3	283.2	274.0	266.8	262.7
70°	250.4	246.3	237.0	229.8	225.7
72.5°	211.4	207.3	202.1	195.0	191.9
75°	172.4	170.3	165.2	159.0	161.1
77.5°	137.5	133.4	131.3	128.3	125.2
80°	102.6	101.6	99.5	96.5	94.4
82.5°	69.8	69.8	68.7	64.6	64.6
85°	42.1	41.0	40.0	36.9	35.9
87.5°	18.5	16.4	14.4	11.3	10.3
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)