

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: P1029652

Luminaire Tested: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029652
REPORT IS A COMBINATION OF REPORTS P986509 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_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

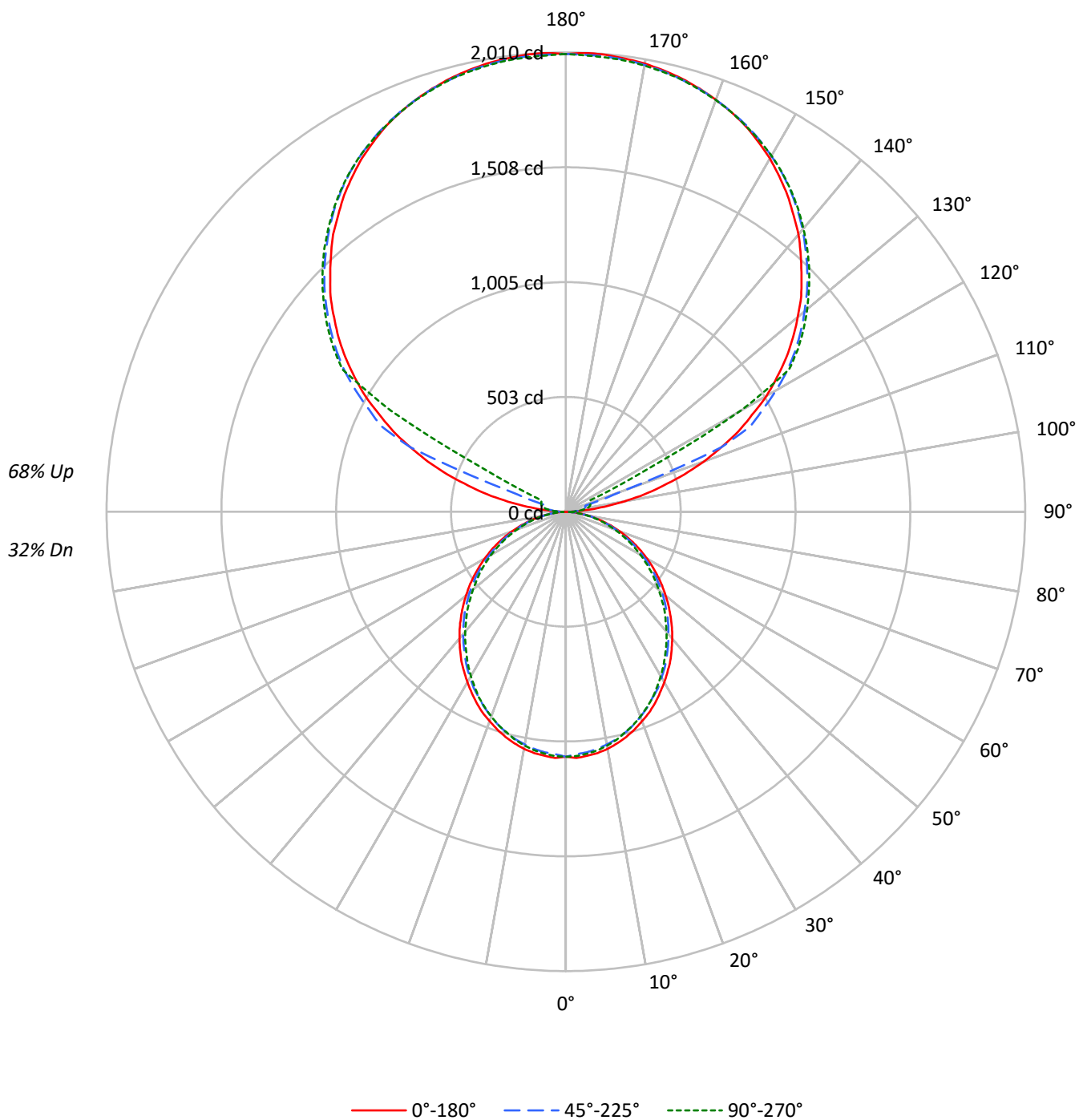
Lumens per Lamp: N/A
Luminaire Lumens: 8602.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39	39	39	39
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	33	33	33
2	85	78	72	67	76	70	65	61	56	53	50	43	41	38	31	29	28	28	28	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	24	24	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	20	20	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18	18	18	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	16	16	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	14	14	14
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	12	12	12	12
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	11	11	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	10	10	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16967	16967	16967
5°	16995	16172	16058
10°	16856	15435	15129
15°	16609	14694	14152
20°	16276	13886	13227
25°	15944	13042	12304
30°	15524	12249	11334
35°	15131	11412	10383
40°	14643	10587	9482
45°	14159	9769	8599
50°	13628	8936	7684
55°	13073	8044	6817
60°	12447	7080	5915
65°	11760	6100	4967
70°	10892	5029	4010
75°	9683	3875	3097
80°	8231	2635	1993
85°	5975	1226	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.2
10°-20°	283.8	3.3
20°-30°	417.1	4.8
30°-40°	484.5	5.6
40°-50°	483.9	5.6
50°-60°	421.9	4.9
60°-70°	311.9	3.6
70°-80°	176.5	2.1
80°-90°	50.1	0.6
90°-100°	66.1	0.8
100°-110°	246.2	2.9
110°-120°	652.9	7.6
120°-130°	1082.9	12.6
130°-140°	1150.3	13.4
140°-150°	1069.1	12.4
150°-160°	859.5	10.0
160°-170°	553.8	6.4
170°-180°	190.6	2.2
0°-30°	801.8	9.3
0°-40°	1286.3	15.0
0°-60°	2192.1	25.5
0°-90°	2730.5	31.7
90°-120°	965.2	11.2
90°-150°	4267.5	49.6
90°-180°	5871.0	68.3
0°-180°	8602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1072	1068	1056	1065	1063	102
15°	1020	1014	1001	1005	1000	287
25°	924	915	898	900	898	425
35°	797	786	770	764	759	497
45°	648	641	626	614	610	500
55°	491	484	472	460	454	439
65°	331	325	314	305	300	327
75°	173	171	166	160	162	185
85°	42	41	40	37	36	47
90°	1	17	29	36	39	8
95°	94	46	56	64	62	112
105°	441	484	88	104	110	471
115°	833	858	894	223	119	820
125°	1178	1197	1225	1235	1239	1051
135°	1458	1481	1494	1509	1506	1126
145°	1691	1690	1714	1724	1717	1058
155°	1862	1849	1867	1875	1864	858
165°	1962	1954	1958	1968	1958	554
175°	2007	1997	2000	2010	1996	191
180°	2003	2003	2003	2003	2003	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1078.1	1072.9	1061.6	1071.9	1069.8
5°	1071.9	1067.7	1056.4	1064.7	1062.6
7.5°	1064.7	1058.5	1047.1	1055.4	1053.3
10°	1053.3	1046.1	1033.7	1042.0	1038.9
12.5°	1037.9	1031.7	1019.3	1024.5	1022.4
15°	1020.3	1014.2	1000.8	1004.9	999.7
17.5°	998.7	992.5	979.1	984.3	979.1
20°	975.0	968.8	954.4	957.5	953.3
22.5°	951.3	942.0	928.6	928.6	926.5
25°	923.5	915.2	897.7	899.7	897.7
27.5°	892.5	885.3	871.9	868.8	863.7
30°	861.6	853.4	837.9	834.8	830.7
32.5°	828.6	822.5	806.0	799.8	795.7
35°	796.7	786.4	769.9	763.7	758.6
37.5°	760.6	751.3	734.8	727.6	722.5
40°	723.5	715.3	698.8	689.5	685.4
42.5°	687.4	679.2	662.7	652.4	646.2
45°	648.3	641.1	625.6	614.3	610.1
47.5°	610.1	602.9	586.4	575.1	568.9
50°	569.9	564.8	550.4	535.9	530.8
52.5°	530.8	523.6	510.2	498.8	491.6
55°	490.6	484.4	472.0	459.7	454.5
57.5°	450.4	445.2	431.8	419.5	415.3
60°	410.2	406.1	391.6	380.3	377.2
62.5°	371.0	363.8	353.5	343.2	339.1
65°	330.8	324.7	314.3	305.1	299.9
67.5°	289.6	284.5	275.2	268.0	263.8
70°	251.5	247.4	238.1	230.9	226.7
72.5°	212.3	208.2	203.0	195.8	192.7
75°	173.1	171.1	165.9	159.7	161.8
77.5°	138.1	134.0	131.9	128.8	125.7
80°	103.1	102.0	100.0	96.9	94.8
82.5°	70.1	70.1	69.1	64.9	64.9
85°	42.3	41.2	40.2	37.1	36.1
87.5°	18.6	16.5	14.4	11.3	10.3
90°	1.4	17.4	29.0	36.2	39.1
92.5°	36.2	30.4	34.8	37.7	39.1
95°	94.2	46.4	56.5	63.8	62.3
97.5°	169.6	50.7	73.9	78.3	79.7
100°	256.5	58.0	82.6	94.2	97.1
102.5°	352.2	349.3	85.5	101.4	105.8
105°	440.6	484.0	88.4	104.3	110.1
107.5°	543.4	579.7	91.3	107.2	113.0
110°	642.0	672.4	253.6	108.7	114.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	734.7	760.8	736.2	111.6	115.9
115°	833.3	857.9	894.2	223.2	118.8
117.5°	918.8	947.8	972.4	765.2	385.5
120°	1014.4	1036.2	1062.3	1079.7	884.0
122.5°	1095.6	1118.8	1147.8	1156.5	1157.9
125°	1178.2	1197.0	1224.6	1234.7	1239.1
127.5°	1253.6	1273.8	1295.6	1310.1	1311.5
130°	1324.6	1347.8	1363.7	1379.6	1378.2
132.5°	1397.0	1415.9	1431.8	1444.8	1443.4
135°	1457.9	1481.1	1494.1	1508.6	1505.7
137.5°	1521.7	1539.0	1553.5	1568.0	1563.7
140°	1584.0	1595.6	1611.5	1624.5	1617.3
142.5°	1636.1	1646.3	1665.1	1676.7	1669.5
145°	1691.2	1689.8	1714.4	1724.5	1717.3
147.5°	1739.0	1734.7	1759.3	1766.6	1760.8
150°	1785.4	1775.3	1798.5	1807.1	1799.9
152.5°	1824.5	1812.9	1834.7	1843.4	1833.2
155°	1862.2	1849.2	1866.6	1875.3	1863.7
157.5°	1892.7	1881.1	1894.1	1904.2	1892.7
160°	1918.7	1910.0	1918.7	1927.4	1917.3
162.5°	1941.9	1933.2	1940.5	1950.6	1937.6
165°	1962.2	1953.5	1957.9	1968.0	1957.9
167.5°	1978.2	1969.5	1973.8	1983.9	1970.9
170°	1991.2	1982.5	1985.4	1995.5	1982.5
172.5°	1999.9	1991.2	1994.1	2004.2	1991.2
175°	2007.1	1997.0	1999.9	2010.0	1995.5
177.5°	2010.0	1999.9	2001.3	2011.5	1998.4
180°	2002.8	2002.8	2002.8	2002.8	2002.8

(END OF REPORT)