

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: P1029641

Luminaire Tested: S122DIW-B675D1440UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029641
REPORT IS A COMBINATION OF REPORTS P986493 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-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

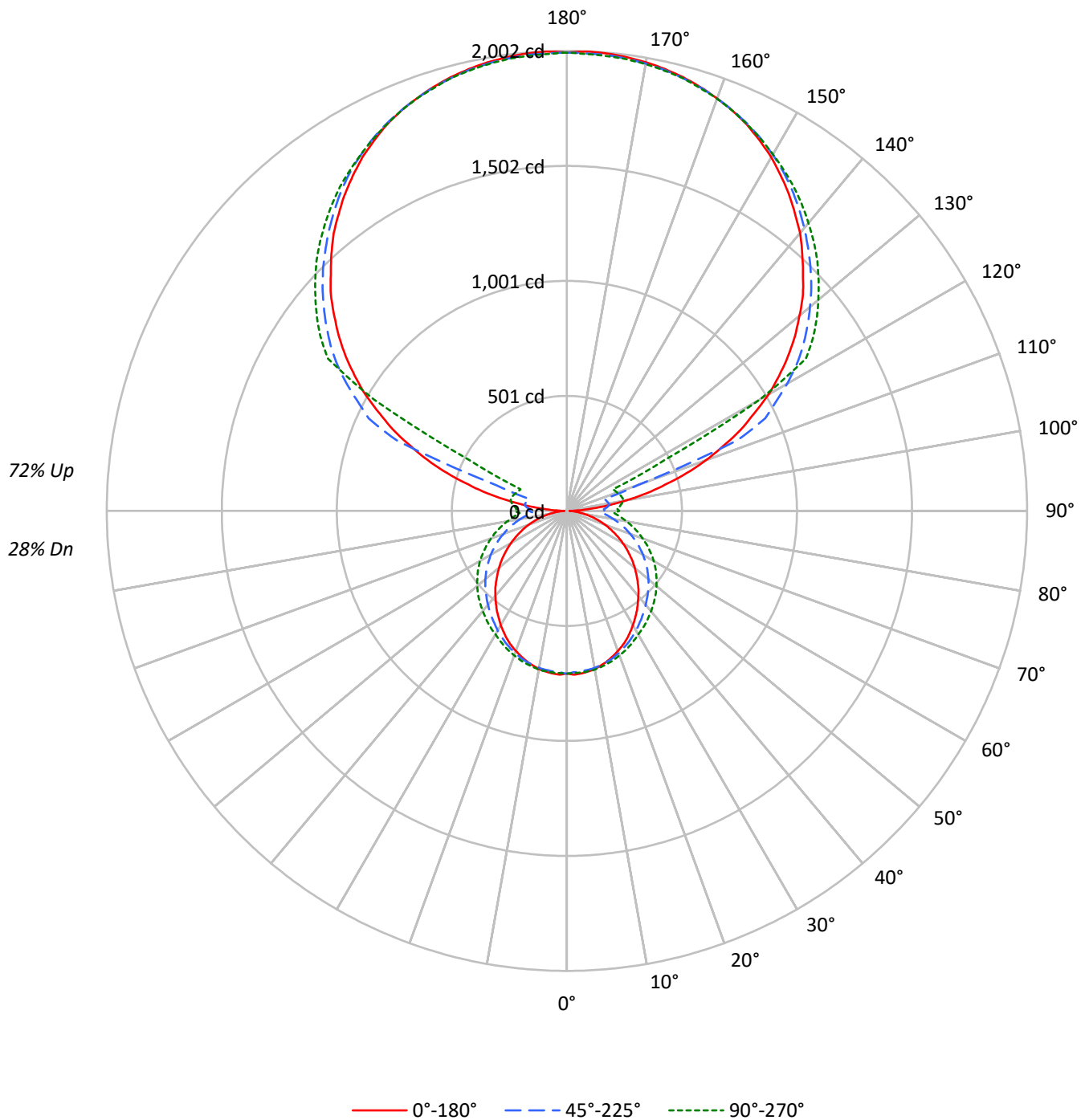
Lumens per Lamp: N/A
Luminaire Lumens: 8552.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28		
1	92	87	83	80	82	78	75	72	61	59	56	45	44	42	30	30	29	22		
2	83	76	70	64	74	68	63	58	53	49	46	39	37	34	26	25	23	18		
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	20	15		
4	69	58	51	45	61	52	46	40	41	36	32	30	27	24	20	18	17	12		
5	63	52	44	38	56	46	40	34	36	31	27	27	24	21	18	16	14	11		
6	58	46	38	32	52	41	35	30	33	28	24	24	21	18	16	14	12	9		
7	54	42	34	28	48	37	31	26	29	24	21	22	18	16	15	13	11	8		
8	50	37	30	25	44	34	27	22	27	22	18	20	16	14	14	11	10	7		
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	13	10	9	6		
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8	6		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	0.8
10°-20°	192.5	2.3
20°-30°	291.7	3.4
30°-40°	355.2	4.2
40°-50°	382.2	4.5
50°-60°	371.2	4.3
60°-70°	324.2	3.8
70°-80°	249.5	2.9
80°-90°	170.6	2.0
90°-100°	181.0	2.1
100°-110°	329.3	3.9
110°-120°	705.7	8.3
120°-130°	1109.3	13.0
130°-140°	1158.4	13.5
140°-150°	1066.7	12.5
150°-160°	855.9	10.0
160°-170°	551.5	6.4
170°-180°	189.8	2.2
0°-30°	551.4	6.4
0°-40°	906.6	10.6
0°-60°	1660.0	19.4
0°-90°	2404.3	28.1
90°-120°	1216.1	14.2
90°-150°	4550.5	53.2
90°-180°	6148.0	71.9
0°-180°	8552.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	12	87	164	213	228	13
95°	102	103	174	220	231	117
105°	444	517	176	228	245	475
115°	834	870	952	315	222	821
125°	1175	1194	1254	1292	1306	1049
135°	1453	1476	1499	1535	1540	1123
145°	1684	1683	1707	1723	1721	1054
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°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	11.7	87.1	164.4	212.6	227.8
92.5°	45.3	93.9	160.8	203.8	217.6
95°	102.0	102.6	174.3	220.5	231.4
97.5°	176.0	101.8	184.4	226.7	240.5
100°	262.6	102.9	184.9	234.4	248.6
102.5°	356.9	387.8	180.5	233.4	249.0
105°	443.8	516.9	176.3	228.1	245.2
107.5°	546.2	607.0	172.0	222.8	239.9
110°	643.4	694.2	327.4	216.0	233.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	735.7	778.1	800.8	211.7	227.3
115°	833.8	869.7	951.9	314.6	222.0
117.5°	918.0	955.0	1022.7	847.1	479.2
120°	1013.2	1039.0	1105.9	1152.1	968.5
122.5°	1094.0	1118.1	1185.0	1221.3	1232.0
125°	1175.3	1194.0	1254.3	1292.1	1305.6
127.5°	1250.3	1269.4	1318.8	1358.9	1369.5
130°	1321.0	1343.0	1380.5	1421.0	1427.7
132.5°	1393.2	1410.8	1442.1	1478.7	1485.5
135°	1452.7	1475.8	1499.1	1535.0	1540.4
137.5°	1516.2	1533.5	1553.1	1587.1	1589.8
140°	1578.2	1588.8	1606.7	1636.1	1635.0
142.5°	1630.2	1639.3	1658.0	1681.9	1679.8
145°	1684.0	1682.6	1707.1	1723.4	1721.3
147.5°	1731.6	1727.3	1751.8	1760.1	1757.4
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)