

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: P1029615

Luminaire Tested: S122DIW-B675D1240UB2750-4F0-XX-W2A-F1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029615
REPORT IS A COMBINATION OF REPORTS P986407 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D1240UB2750-4F0-XX-W2A-F1_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

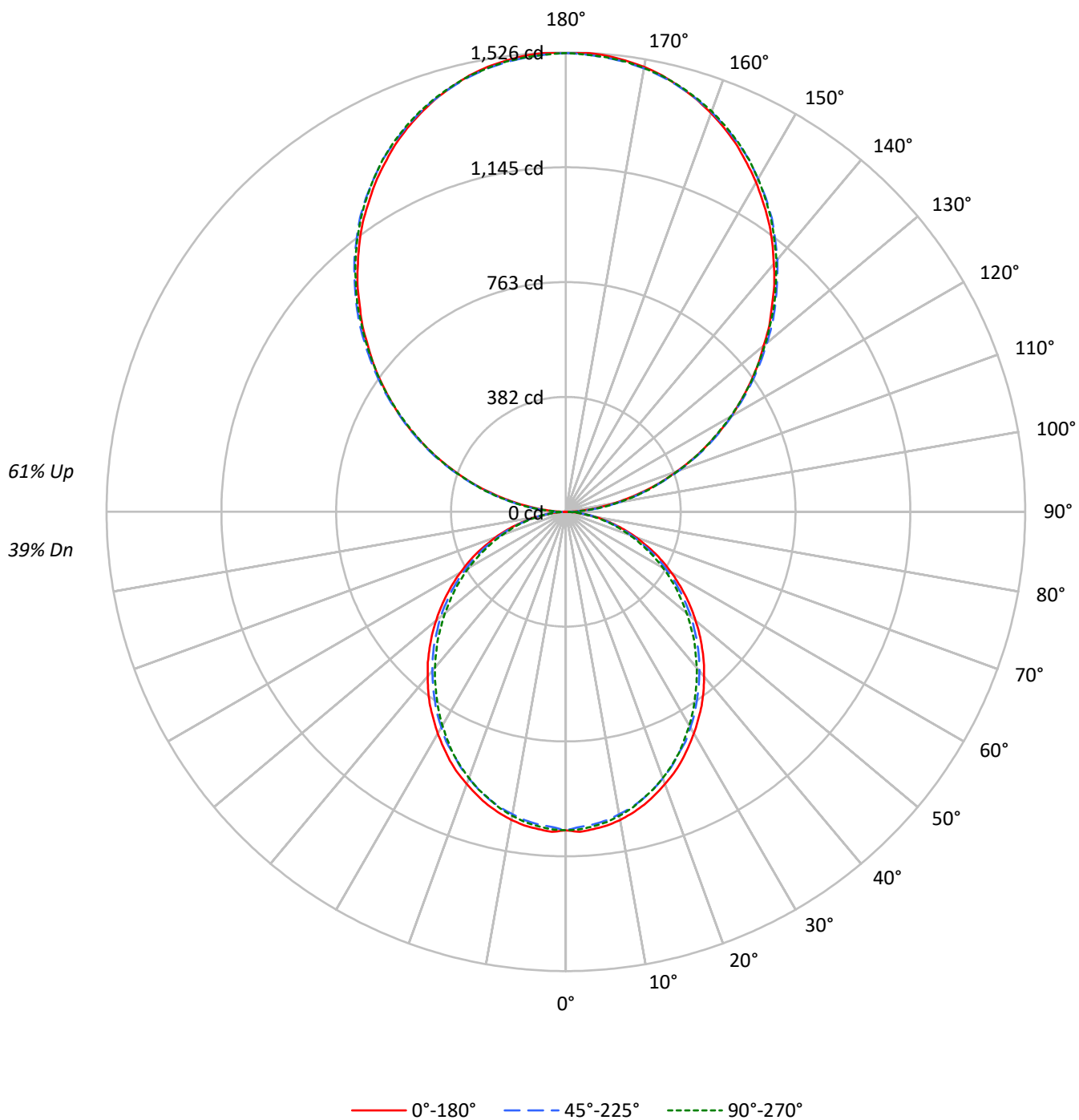
Lumens per Lamp: N/A
Luminaire Lumens: 6957.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 78
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46			39
1	95	91	87	84	86	83	80	77	67	65	63	53	52	51	40	39	39			33
2	87	79	73	68	79	72	67	63	59	55	52	47	44	42	36	34	33			27
3	79	70	63	57	72	64	57	52	52	48	44	41	38	36	32	29	28			23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24			20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21			17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18			15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16			13
8	52	40	33	27	47	37	30	25	31	25	22	25	21	18	19	17	15			12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13			11
10	45	34	26	22	41	31	25	20	26	21	17	21	17	15	16	14	12			10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16749	16749	16749
5°	16776	15964	15853
10°	16640	15238	14936
15°	16396	14504	13971
20°	16067	13707	13057
25°	15738	12875	12146
30°	15326	12092	11188
35°	14937	11266	10249
40°	14455	10451	9361
45°	13978	9644	8489
50°	13454	8821	7586
55°	12905	7942	6730
60°	12287	6990	5840
65°	11610	6022	4904
70°	10749	4963	3959
75°	9560	3826	3057
80°	8119	2601	1968
85°	5890	1211	837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.4
10°-20°	280.2	4.0
20°-30°	411.8	5.9
30°-40°	478.3	6.9
40°-50°	477.7	6.9
50°-60°	416.5	6.0
60°-70°	307.9	4.4
70°-80°	174.2	2.5
80°-90°	50.3	0.7
90°-100°	94.3	1.4
100°-110°	299.7	4.3
110°-120°	512.8	7.4
120°-130°	674.4	9.7
130°-140°	757.0	10.9
140°-150°	742.4	10.7
150°-160°	622.7	9.0
160°-170°	413.0	5.9
170°-180°	144.3	2.1
0°-30°	791.6	11.4
0°-40°	1269.8	18.3
0°-60°	2164.0	31.1
0°-90°	2696.3	38.8
90°-120°	906.8	13.0
90°-150°	3080.6	44.3
90°-180°	4261.0	61.2
0°-180°	6957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1058	1054	1043	1051	1049	100
15°	1007	1001	988	992	987	284
25°	912	904	886	888	886	419
35°	786	776	760	754	749	491
45°	640	633	618	606	602	494
55°	484	478	466	454	449	433
65°	327	320	310	301	296	323
75°	171	169	164	158	160	182
85°	42	41	40	37	36	46
90°	1	17	45	42	44	7
95°	67	80	82	82	80	75
105°	276	280	283	286	286	292
115°	514	522	520	518	514	509
125°	748	760	756	752	751	669
135°	968	982	985	984	980	748
145°	1175	1184	1192	1193	1188	734
155°	1344	1348	1352	1358	1354	619
165°	1462	1461	1461	1470	1464	412
175°	1521	1518	1515	1524	1516	145
180°	1524	1524	1524	1524	1524	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.1	1058.1	1058.1	1058.1	1058.1
2.5°	1064.2	1059.1	1047.9	1058.1	1056.1
5°	1058.1	1054.0	1042.8	1051.0	1049.0
7.5°	1051.0	1044.9	1033.7	1041.8	1039.8
10°	1039.8	1032.7	1020.5	1028.6	1025.6
12.5°	1024.5	1018.4	1006.2	1011.3	1009.3
15°	1007.2	1001.1	987.9	992.0	986.9
17.5°	985.9	979.8	966.5	971.6	966.5
20°	962.5	956.4	942.1	945.2	941.1
22.5°	939.1	929.9	916.7	916.7	914.7
25°	911.6	903.5	886.2	888.2	886.2
27.5°	881.1	874.0	860.7	857.7	852.6
30°	850.6	842.4	827.2	824.1	820.0
32.5°	818.0	811.9	795.6	789.5	785.4
35°	786.5	776.3	760.0	753.9	748.8
37.5°	750.9	741.7	725.4	718.3	713.2
40°	714.2	706.1	689.8	680.6	676.6
42.5°	678.6	670.5	654.2	644.0	637.9
45°	640.0	632.8	617.6	606.4	602.3
47.5°	602.3	595.2	578.9	567.7	561.6
50°	562.6	557.5	543.3	529.1	524.0
52.5°	524.0	516.8	503.6	492.4	485.3
55°	484.3	478.2	466.0	453.8	448.7
57.5°	444.6	439.5	426.3	414.1	410.0
60°	404.9	400.9	386.6	375.4	372.4
62.5°	366.3	359.1	349.0	338.8	334.7
65°	326.6	320.5	310.3	301.2	296.1
67.5°	285.9	280.8	271.6	264.5	260.5
70°	248.2	244.2	235.0	227.9	223.8
72.5°	209.6	205.5	200.4	193.3	190.3
75°	170.9	168.9	163.8	157.7	159.7
77.5°	136.3	132.3	130.2	127.2	124.1
80°	101.7	100.7	98.7	95.6	93.6
82.5°	69.2	69.2	68.2	64.1	64.1
85°	41.7	40.7	39.7	36.6	35.6
87.5°	18.3	16.3	14.2	11.2	10.2
90°	1.3	16.7	45.0	42.4	43.7
92.5°	28.3	38.6	39.9	41.2	41.2
95°	66.9	79.7	82.3	82.3	79.7
97.5°	111.9	123.5	128.6	128.6	128.6
100°	163.3	173.6	177.5	177.5	176.2
102.5°	217.3	225.1	230.2	231.5	230.2
105°	276.5	280.4	282.9	285.5	285.5
107.5°	335.7	340.8	340.8	342.1	335.7
110°	392.2	400.0	400.0	400.0	396.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	454.0	461.7	460.4	456.5	454.0
115°	514.4	522.1	519.6	518.3	514.4
117.5°	574.9	585.1	578.7	574.9	571.0
120°	635.3	645.6	635.3	635.3	631.4
122.5°	690.6	703.5	697.0	693.2	690.6
125°	748.5	760.0	756.2	752.3	751.0
127.5°	805.1	819.2	814.1	808.9	805.1
130°	857.8	874.5	871.9	869.4	864.2
132.5°	916.9	929.8	931.1	924.7	920.8
135°	968.4	982.5	985.1	983.8	980.0
137.5°	1025.0	1036.5	1039.1	1037.8	1032.7
140°	1075.1	1086.7	1093.1	1093.1	1088.0
142.5°	1126.6	1138.1	1142.0	1143.3	1138.1
145°	1175.4	1184.4	1192.1	1193.4	1188.3
147.5°	1219.2	1230.7	1235.9	1238.4	1233.3
150°	1264.2	1271.9	1277.0	1280.9	1277.0
152.5°	1304.0	1311.8	1318.2	1323.3	1318.2
155°	1343.9	1347.8	1351.6	1358.0	1354.2
157.5°	1378.6	1381.2	1383.8	1392.8	1386.3
160°	1409.5	1412.1	1413.3	1421.1	1415.9
162.5°	1437.8	1437.8	1439.1	1448.1	1441.6
165°	1462.2	1460.9	1460.9	1469.9	1463.5
167.5°	1484.1	1480.2	1480.2	1489.2	1482.8
170°	1500.8	1496.9	1495.7	1504.7	1496.9
172.5°	1512.4	1508.5	1507.2	1516.2	1508.5
175°	1521.4	1517.5	1514.9	1523.9	1516.2
177.5°	1526.5	1522.7	1520.1	1527.8	1520.1
180°	1523.9	1523.9	1523.9	1523.9	1523.9

(END OF REPORT)