

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: P1029609

Luminaire Tested: S122DIW-B675D1240UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029609
REPORT IS A COMBINATION OF REPORTS P986396 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-D1_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

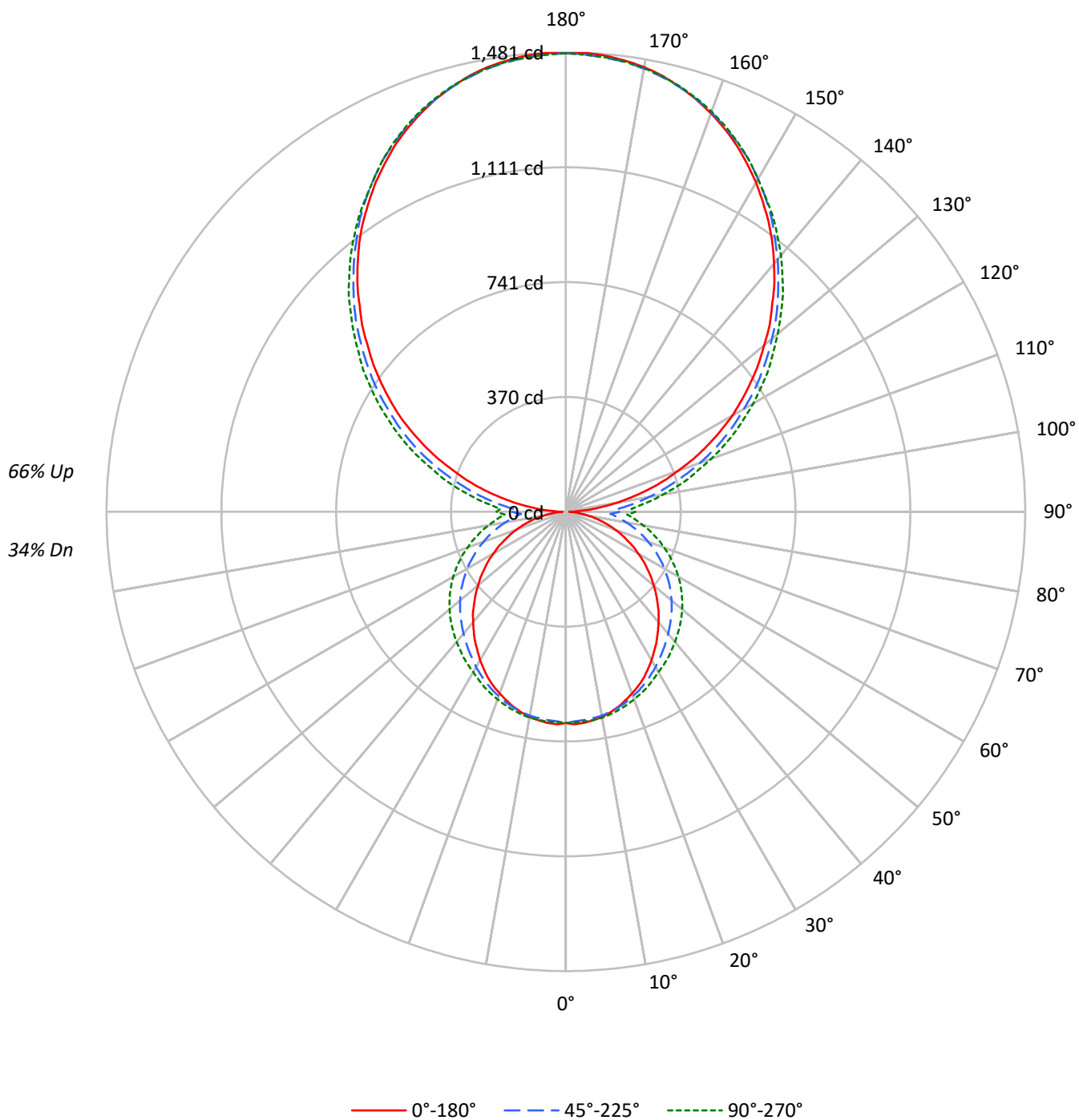
Lumens per Lamp: N/A
Luminaire Lumens: 6735.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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
RCR																	
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	93	89	84	81	84	80	76	73	64	61	59	49	47	46	35	34	33
2	84	77	70	65	76	69	64	59	55	51	48	42	40	37	30	29	27
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	27	24	23
4	70	59	51	45	63	53	46	41	43	38	34	33	29	26	24	21	19
5	64	52	44	38	57	47	40	35	38	33	29	29	25	22	21	19	16
6	59	47	39	33	53	42	35	30	34	29	25	26	22	20	19	16	14
7	54	42	34	28	49	38	31	26	31	25	22	24	20	17	17	15	13
8	50	38	30	25	45	34	28	23	28	23	19	22	18	15	16	13	11
9	47	35	27	22	42	31	25	20	25	20	17	20	16	13	15	12	10
10	44	32	24	20	39	29	22	18	23	18	15	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10778	10778	10778
5°	10827	10318	10260
10°	10754	9961	9815
15°	10602	9592	9359
20°	10410	9202	8927
25°	10222	8832	8535
30°	9957	8454	8146
35°	9689	8089	7860
40°	9407	7774	7577
45°	9138	7489	7329
50°	8848	7225	7085
55°	8545	6945	6838
60°	8175	6655	6577
65°	7789	6319	6275
70°	7349	5960	5953
75°	6791	5601	5646
80°	5908	5226	5331
85°	5015	4876	5058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.0
10°-20°	185.1	2.7
20°-30°	280.5	4.2
30°-40°	341.6	5.1
40°-50°	367.5	5.5
50°-60°	356.9	5.3
60°-70°	311.7	4.6
70°-80°	239.9	3.6
80°-90°	164.9	2.4
90°-100°	202.3	3.0
100°-110°	371.7	5.5
110°-120°	550.9	8.2
120°-130°	684.0	10.2
130°-140°	746.8	11.1
140°-150°	722.2	10.7
150°-160°	604.0	9.0
160°-170°	400.6	5.9
170°-180°	140.0	2.1
0°-30°	530.2	7.9
0°-40°	871.7	12.9
0°-60°	1596.1	23.7
0°-90°	2312.6	34.3
90°-120°	1124.8	16.7
90°-150°	3277.8	48.7
90°-180°	4422.0	65.7
0°-180°	6735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	680	674	680	679	65
15°	651	653	653	662	661	183
25°	592	599	608	620	623	272
35°	510	527	546	567	574	319
45°	418	445	480	510	520	323
55°	321	356	408	443	456	287
65°	219	267	326	366	379	218
75°	121	177	240	282	295	128
85°	36	97	160	201	215	37
90°	11	83	174	211	224	11
95°	73	132	193	231	240	79
105°	273	306	359	396	407	289
115°	503	521	563	592	599	497
125°	728	739	767	790	798	651
135°	940	954	966	986	990	727
145°	1140	1149	1156	1164	1164	713
155°	1304	1307	1311	1317	1314	600
165°	1418	1417	1417	1426	1420	400
175°	1476	1472	1470	1478	1471	140
180°	1478	1478	1478	1478	1478	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.9	680.9	680.9	680.9	680.9
2.5°	685.8	682.9	675.9	680.9	678.9
5°	682.9	679.9	674.0	679.9	678.9
7.5°	677.9	675.9	671.0	677.9	676.9
10°	672.0	670.0	667.1	675.0	674.0
12.5°	662.1	663.1	661.1	669.0	668.1
15°	651.3	653.3	653.3	662.1	661.1
17.5°	637.5	641.4	644.4	653.3	653.3
20°	623.6	628.6	632.5	643.4	643.4
22.5°	608.8	614.8	620.7	631.5	633.5
25°	592.1	599.0	607.9	619.7	622.7
27.5°	572.3	583.2	593.1	607.9	609.8
30°	552.6	565.4	578.3	594.0	597.0
32.5°	530.9	545.7	561.5	580.2	586.1
35°	510.2	526.9	545.7	567.4	574.3
37.5°	487.5	506.2	529.9	553.6	560.5
40°	464.8	486.5	513.1	538.8	547.7
42.5°	443.1	464.8	496.4	525.0	533.8
45°	418.4	445.0	479.6	510.2	520.0
47.5°	394.7	423.3	462.8	494.4	505.2
50°	370.0	400.6	445.0	478.6	489.4
52.5°	346.4	378.9	426.3	460.8	472.7
55°	320.7	356.2	407.5	443.1	455.9
57.5°	296.0	335.5	386.8	425.3	438.1
60°	269.4	311.8	368.1	405.6	419.4
62.5°	245.7	290.1	346.4	386.8	399.6
65°	219.1	267.4	325.6	366.1	378.9
67.5°	195.4	245.7	304.9	345.4	359.2
70°	169.7	221.0	282.2	324.7	336.5
72.5°	146.0	199.3	261.5	302.9	317.7
75°	121.4	176.6	239.8	282.2	295.0
77.5°	97.7	154.9	219.1	261.5	275.3
80°	74.0	134.2	198.3	239.8	253.6
82.5°	54.3	113.5	178.6	220.1	232.9
85°	35.5	96.7	159.9	201.3	215.1
87.5°	21.7	80.9	144.1	184.5	197.4
90°	11.1	83.3	174.0	210.9	224.0
92.5°	36.3	98.6	160.1	199.8	211.6
95°	72.8	131.6	193.3	230.8	240.1
97.5°	115.4	169.1	231.3	267.8	279.6
100°	165.3	211.8	270.8	307.3	316.9
102.5°	216.7	256.8	315.1	351.8	361.4
105°	273.1	305.5	359.3	396.3	407.2
107.5°	330.5	359.2	408.6	443.3	448.0
110°	384.4	411.7	460.0	491.6	498.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	444.2	467.5	511.7	539.5	547.9
115°	502.9	521.3	563.2	591.5	598.7
117.5°	560.6	578.5	613.6	639.5	645.7
120°	619.2	633.1	662.6	690.2	697.4
122.5°	672.9	686.2	716.6	739.5	745.9
125°	728.0	739.2	767.1	789.9	797.6
127.5°	782.9	795.6	817.2	836.9	842.1
130°	834.0	849.3	867.5	888.7	891.6
132.5°	891.4	902.9	918.9	935.4	939.6
135°	940.3	954.0	966.4	985.9	990.0
137.5°	995.2	1006.4	1013.8	1031.4	1033.3
140°	1043.9	1054.1	1062.3	1078.1	1079.0
142.5°	1093.8	1104.0	1107.7	1120.8	1120.8
145°	1140.2	1148.9	1156.4	1163.5	1163.5
147.5°	1182.6	1193.8	1198.8	1202.3	1200.2
150°	1226.2	1233.7	1238.7	1242.4	1238.7
152.5°	1264.9	1272.4	1278.6	1283.6	1278.6
155°	1303.6	1307.3	1311.1	1317.3	1313.5
157.5°	1337.2	1339.7	1342.2	1351.0	1344.7
160°	1367.2	1369.7	1370.9	1378.4	1373.4
162.5°	1394.6	1394.6	1395.9	1404.6	1398.4
165°	1418.3	1417.1	1417.1	1425.8	1419.6
167.5°	1439.5	1435.8	1435.8	1444.5	1438.3
170°	1455.8	1452.0	1450.8	1459.5	1452.0
172.5°	1467.0	1463.2	1462.0	1470.7	1463.2
175°	1475.7	1472.0	1469.5	1478.2	1470.7
177.5°	1480.7	1477.0	1474.5	1482.0	1474.5
180°	1478.2	1478.2	1478.2	1478.2	1478.2

(END OF REPORT)