

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: P1029613

Luminaire Tested: S122DIW-B675D1240UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029613
REPORT IS A COMBINATION OF REPORTS P986405 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-D_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

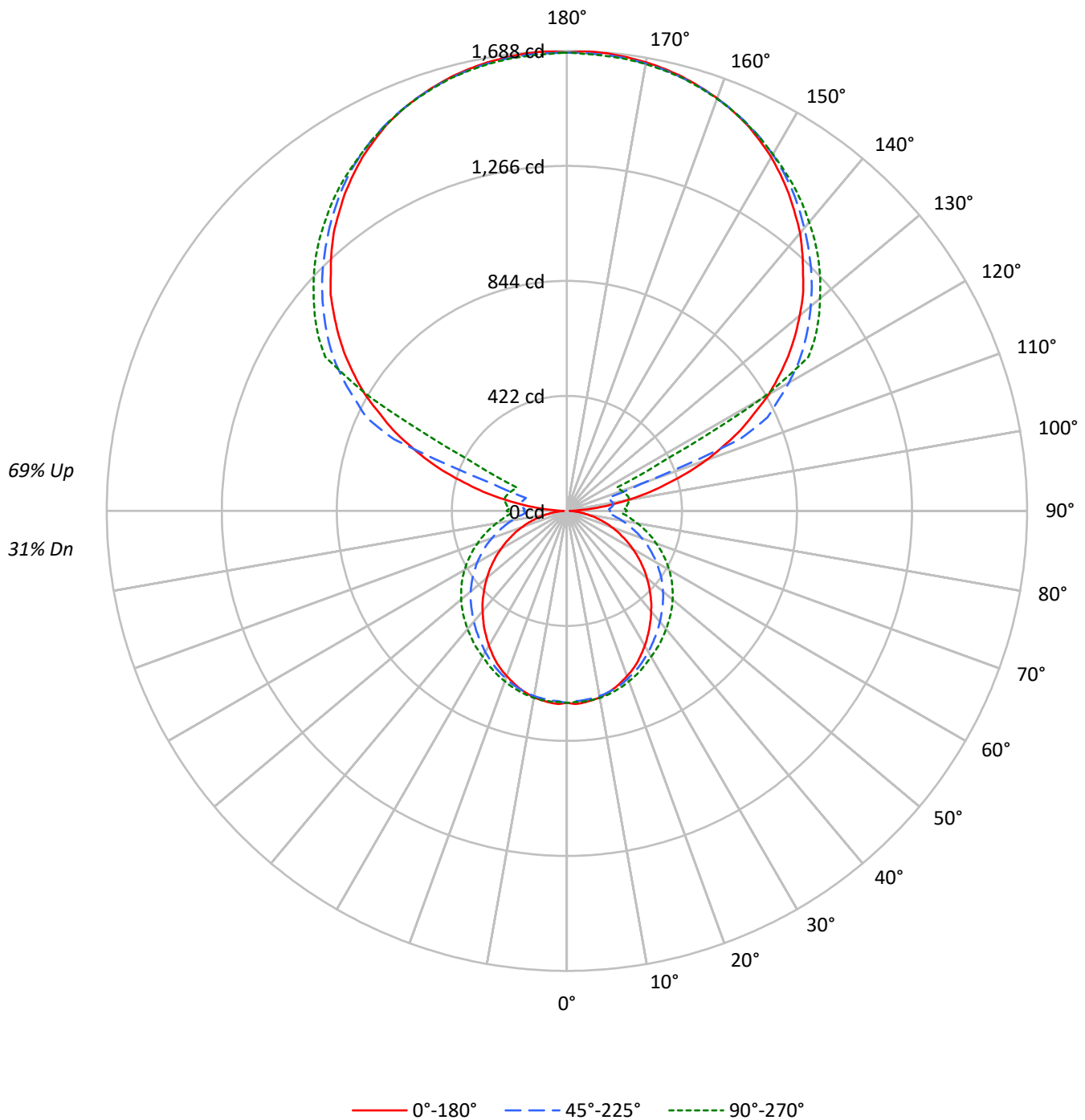
Lumens per Lamp: N/A
Luminaire Lumens: 7619.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1029613

CATALOG NUMBER: S122DIW-B675D1240UB2750-4F0-XX-W2A-D_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1029613

CATALOG NUMBER: S122DIW-B675D1240UB2750-4F0-XX-W2A-D_4000K

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	55	55	55	39	39	39
1	93	88	84	80	83	79	76	72	62	60	58	47	45	44	33	32	31
2	84	76	70	65	75	69	63	59	54	50	47	41	38	36	28	27	25
3	76	67	59	53	68	60	54	48	47	43	39	36	33	30	25	23	21
4	70	59	51	45	62	53	46	41	42	37	33	32	28	25	22	20	18
5	64	52	44	38	57	47	40	35	37	32	28	28	25	22	20	17	15
6	59	46	38	33	52	42	35	30	33	28	24	25	22	19	18	15	13
7	54	42	34	28	48	38	31	26	30	25	21	23	19	16	16	14	12
8	50	38	30	25	45	34	27	23	27	22	19	21	17	15	15	12	11
9	46	34	27	22	42	31	25	20	25	20	16	19	16	13	14	11	9
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11147	11147	11147
5°	11197	10672	10612
10°	11122	10301	10152
15°	10965	9919	9680
20°	10767	9518	9232
25°	10573	9134	8827
30°	10297	8743	8425
35°	10020	8366	8130
40°	9729	8041	7836
45°	9450	7745	7580
50°	9152	7473	7328
55°	8839	7184	7072
60°	8454	6883	6801
65°	8055	6537	6491
70°	7600	6165	6156
75°	7021	5793	5842
80°	6108	5405	5514
85°	5184	5040	5232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9450 cd/sqm

TEST NUMBER: P1029613

CATALOG NUMBER: S122DIW-B675D1240UB2750-4F0-XX-W2A-D_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	0.9
10°-20°	191.5	2.5
20°-30°	290.1	3.8
30°-40°	353.3	4.6
40°-50°	380.1	5.0
50°-60°	369.1	4.8
60°-70°	322.4	4.2
70°-80°	248.1	3.3
80°-90°	169.1	2.2
90°-100°	170.1	2.2
100°-110°	290.4	3.8
110°-120°	603.5	7.9
120°-130°	940.1	12.3
130°-140°	978.8	12.8
140°-150°	899.8	11.8
150°-160°	721.7	9.5
160°-170°	465.0	6.1
170°-180°	160.1	2.1
0°-30°	548.3	7.2
0°-40°	901.6	11.8
0°-60°	1650.8	21.7
0°-90°	2390.4	31.4
90°-120°	1064.0	14.0
90°-150°	3882.7	51.0
90°-180°	5230.0	68.6
0°-180°	7619.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	706	703	697	703	702	67
15°	674	676	676	685	684	190
25°	612	620	629	641	644	282
35°	528	545	564	587	594	330
45°	433	460	496	528	538	334
55°	332	368	422	458	472	297
65°	227	277	337	379	392	225
75°	126	183	248	292	305	133
85°	37	100	165	208	222	39
90°	11	84	159	206	221	12
95°	87	95	165	210	221	100
105°	375	441	162	211	227	401
115°	704	736	812	279	203	692
125°	991	1007	1063	1099	1112	884
135°	1225	1245	1266	1299	1305	947
145°	1420	1419	1440	1454	1453	888
155°	1564	1553	1567	1575	1565	721
165°	1648	1640	1644	1652	1644	465
175°	1685	1677	1679	1688	1676	160
180°	1682	1682	1682	1682	1682	

TEST NUMBER: P1029613

CATALOG NUMBER: S122DIW-B675D1240UB2750-4F0-XX-W2A-D_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.2	704.2	704.2	704.2	704.2
2.5°	709.3	706.2	699.1	704.2	702.2
5°	706.2	703.2	697.1	703.2	702.2
7.5°	701.1	699.1	694.0	701.1	700.1
10°	695.0	693.0	689.9	698.1	697.1
12.5°	684.8	685.8	683.8	692.0	690.9
15°	673.6	675.6	675.6	684.8	683.8
17.5°	659.3	663.4	666.4	675.6	675.6
20°	645.0	650.1	654.2	665.4	665.4
22.5°	629.7	635.8	641.9	653.2	655.2
25°	612.4	619.5	628.7	640.9	644.0
27.5°	591.9	603.2	613.4	628.7	630.7
30°	571.5	584.8	598.1	614.4	617.5
32.5°	549.1	564.4	580.7	600.1	606.2
35°	527.6	545.0	564.4	586.8	594.0
37.5°	504.2	523.6	548.1	572.5	579.7
40°	480.7	503.1	530.7	557.2	566.4
42.5°	458.2	480.7	513.4	543.0	552.1
45°	432.7	460.3	496.0	527.6	537.8
47.5°	408.2	437.8	478.7	511.3	522.5
50°	382.7	414.4	460.3	495.0	506.2
52.5°	358.2	391.9	440.9	476.6	488.9
55°	331.7	368.4	421.5	458.2	471.5
57.5°	306.2	347.0	400.1	439.9	453.1
60°	278.6	322.5	380.7	419.5	433.7
62.5°	254.1	300.1	358.2	400.1	413.3
65°	226.6	276.6	336.8	378.6	391.9
67.5°	202.1	254.1	315.4	357.2	371.5
70°	175.5	228.6	291.9	335.8	348.0
72.5°	151.0	206.2	270.5	313.3	328.6
75°	125.5	182.7	248.0	291.9	305.2
77.5°	101.0	160.2	226.6	270.5	284.7
80°	76.5	138.8	205.1	248.0	262.3
82.5°	56.1	117.4	184.7	227.6	240.9
85°	36.7	100.0	165.3	208.2	222.5
87.5°	22.5	83.7	149.0	190.8	204.1
90°	11.4	84.0	159.0	205.9	220.7
92.5°	39.6	88.9	154.7	196.9	210.5
95°	87.3	95.0	164.9	209.6	220.7
97.5°	149.5	93.6	172.3	213.7	227.1
100°	222.5	93.6	171.5	218.9	232.5
102.5°	301.8	333.1	166.7	216.9	231.7
105°	375.0	441.1	162.0	211.1	227.2
107.5°	461.4	516.3	157.3	205.3	221.5
110°	543.2	589.1	287.4	198.5	214.5

TEST NUMBER: P1029613

CATALOG NUMBER: S122DIW-B675D1240UB2750-4F0-XX-W2A-D_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	621.0	659.2	685.6	193.7	208.5
115°	703.8	735.7	812.0	279.3	202.9
117.5°	774.6	807.0	870.6	727.2	418.6
120°	854.9	877.1	939.9	983.0	830.1
122.5°	923.0	943.5	1005.5	1040.4	1050.8
125°	991.3	1007.1	1062.9	1099.0	1111.8
127.5°	1054.6	1070.6	1116.4	1154.1	1164.5
130°	1114.2	1132.7	1167.5	1205.3	1212.3
132.5°	1175.0	1189.8	1218.5	1253.0	1260.0
135°	1225.1	1244.6	1265.8	1299.4	1305.1
137.5°	1278.7	1293.3	1310.5	1342.1	1345.7
140°	1331.0	1339.7	1355.1	1382.5	1382.5
142.5°	1374.8	1382.3	1398.1	1420.1	1419.1
145°	1420.0	1418.8	1439.5	1454.1	1453.1
147.5°	1460.2	1456.5	1477.2	1484.3	1482.6
150°	1499.1	1490.6	1510.1	1517.4	1511.3
152.5°	1532.0	1522.3	1540.5	1547.8	1539.3
155°	1563.6	1552.7	1567.3	1574.6	1564.8
157.5°	1589.2	1579.4	1590.4	1598.9	1589.2
160°	1611.1	1603.8	1611.1	1618.4	1609.9
162.5°	1630.6	1623.3	1629.3	1637.9	1626.9
165°	1647.6	1640.3	1643.9	1652.5	1643.9
167.5°	1661.0	1653.7	1657.3	1665.8	1654.9
170°	1671.9	1664.6	1667.1	1675.6	1664.6
172.5°	1679.2	1671.9	1674.4	1682.9	1671.9
175°	1685.3	1676.8	1679.2	1687.7	1675.6
177.5°	1687.7	1679.2	1680.4	1689.0	1678.0
180°	1681.7	1681.7	1681.7	1681.7	1681.7

(END OF REPORT)