

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: P1029645

Luminaire Tested: S122DIW-B675D1440UB2750-4F0-XX-W2A-F1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029645
REPORT IS A COMBINATION OF REPORTS P986497 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-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

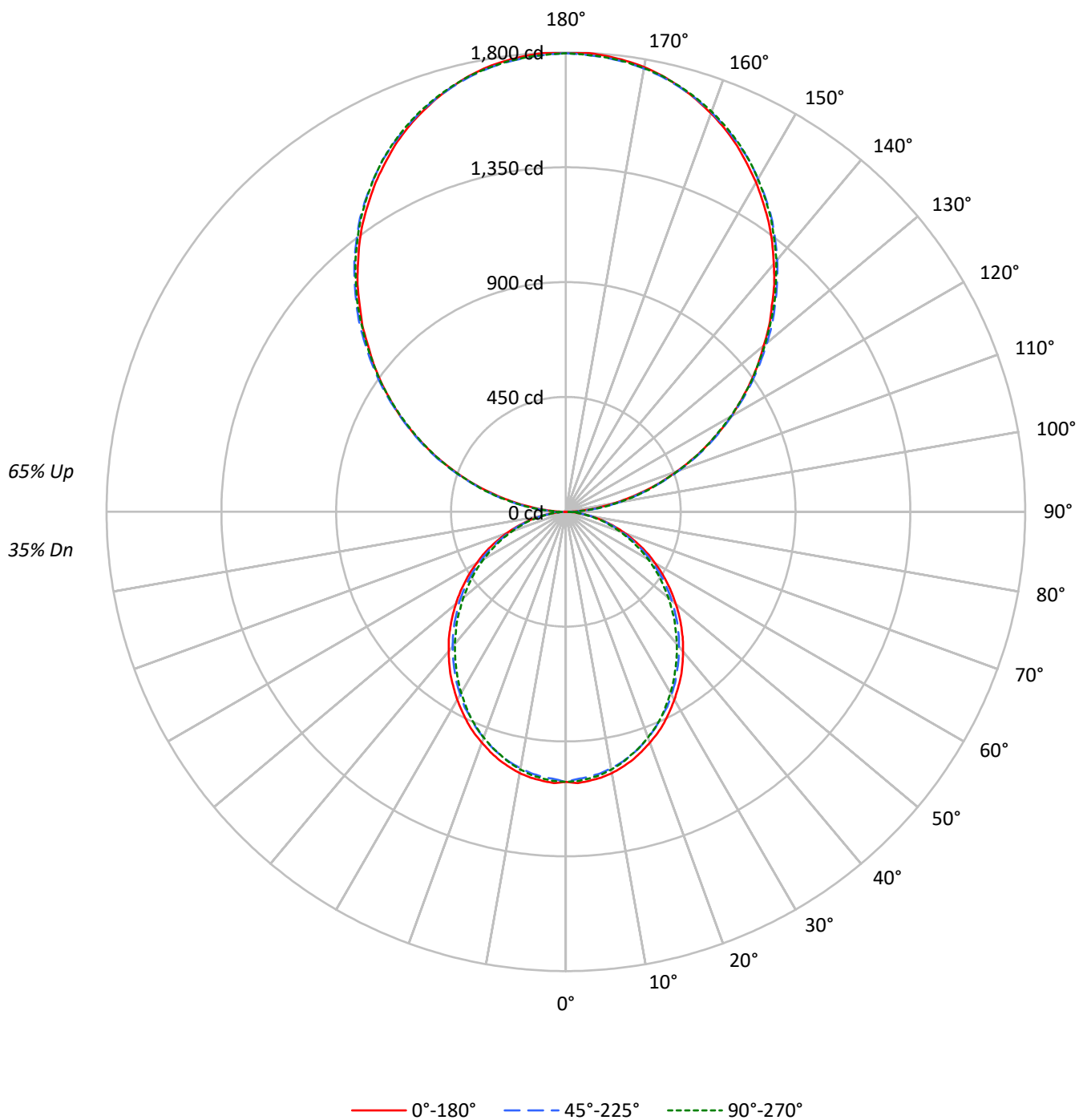
Lumens per Lamp: N/A
Luminaire Lumens: 7721.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1029645

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F1_2700K

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	94	94	94	94	75	75	75	58	58	58	42	42	42			35
1	94	90	86	83	85	82	78	76	66	63	61	51	49	48	37	36	36			29
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30			25
3	78	69	62	56	71	63	57	52	51	46	43	39	36	34	29	27	26			21
4	72	61	53	48	64	56	49	44	45	40	36	35	32	29	26	24	22			18
5	66	54	46	41	59	49	43	37	40	35	31	31	28	25	23	21	19			16
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17			14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	19	17	15			12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13			11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12			10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11			9

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

TEST NUMBER: P1029645

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F1_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.3
10°-20°	280.2	3.6
20°-30°	411.8	5.3
30°-40°	478.3	6.2
40°-50°	477.7	6.2
50°-60°	416.5	5.4
60°-70°	307.9	4.0
70°-80°	174.2	2.3
80°-90°	51.1	0.7
90°-100°	111.1	1.4
100°-110°	353.4	4.6
110°-120°	604.7	7.8
120°-130°	795.2	10.3
130°-140°	892.6	11.6
140°-150°	875.4	11.3
150°-160°	734.3	9.5
160°-170°	487.0	6.3
170°-180°	170.2	2.2
0°-30°	791.6	10.3
0°-40°	1269.8	16.4
0°-60°	2164.0	28.0
0°-90°	2697.1	34.9
90°-120°	1069.2	13.8
90°-150°	3632.4	47.0
90°-180°	5024.0	65.1
0°-180°	7721.0	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°	2	20	53	50	52	7
95°	79	94	97	97	94	88
105°	326	331	334	337	337	344
115°	607	616	613	611	607	600
125°	882	896	892	887	886	789
135°	1142	1158	1162	1160	1156	882
145°	1386	1397	1406	1407	1401	866
155°	1585	1589	1594	1601	1597	729
165°	1724	1723	1723	1733	1726	486
175°	1794	1789	1786	1797	1788	170
180°	1797	1797	1797	1797	1797	

TEST NUMBER: P1029645

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F1_2700K

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°	1.5	19.7	53.1	50.0	51.6
92.5°	33.4	45.5	47.0	48.5	48.5
95°	78.9	94.0	97.0	97.0	94.0
97.5°	131.9	145.6	151.6	151.6	151.6
100°	192.6	204.7	209.3	209.3	207.7
102.5°	256.3	265.4	271.4	273.0	271.4
105°	326.0	330.6	333.6	336.6	336.6
107.5°	395.8	401.8	401.8	403.4	395.8
110°	462.5	471.6	471.6	471.6	467.1

TEST NUMBER: P1029645

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F1_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	535.3	544.4	542.9	538.3	535.3
115°	606.6	615.7	612.6	611.1	606.6
117.5°	677.8	690.0	682.4	677.8	673.3
120°	749.1	761.2	749.1	749.1	744.6
122.5°	814.3	829.5	821.9	817.3	814.3
125°	882.5	896.2	891.6	887.1	885.6
127.5°	949.3	965.9	959.9	953.8	949.3
130°	1011.4	1031.2	1028.1	1025.1	1019.0
132.5°	1081.2	1096.4	1097.9	1090.3	1085.7
135°	1141.8	1158.5	1161.6	1160.0	1155.5
137.5°	1208.6	1222.2	1225.3	1223.7	1217.7
140°	1267.7	1281.4	1288.9	1288.9	1282.9
142.5°	1328.4	1342.0	1346.6	1348.1	1342.0
145°	1386.0	1396.6	1405.7	1407.2	1401.2
147.5°	1437.5	1451.2	1457.3	1460.3	1454.2
150°	1490.6	1499.7	1505.8	1510.3	1505.8
152.5°	1537.6	1546.7	1554.3	1560.4	1554.3
155°	1584.6	1589.2	1593.7	1601.3	1596.8
157.5°	1625.6	1628.6	1631.6	1642.3	1634.7
160°	1662.0	1665.0	1666.5	1675.6	1669.6
162.5°	1695.3	1695.3	1696.9	1707.5	1699.9
165°	1724.1	1722.6	1722.6	1733.2	1725.7
167.5°	1749.9	1745.4	1745.4	1756.0	1748.4
170°	1769.6	1765.1	1763.6	1774.2	1765.1
172.5°	1783.3	1778.7	1777.2	1787.8	1778.7
175°	1793.9	1789.4	1786.3	1796.9	1787.8
177.5°	1800.0	1795.4	1792.4	1801.5	1792.4
180°	1796.9	1796.9	1796.9	1796.9	1796.9

(END OF REPORT)