

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: P1029650

Luminaire Tested: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029650
REPORT IS A COMBINATION OF REPORTS P986507 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-F_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

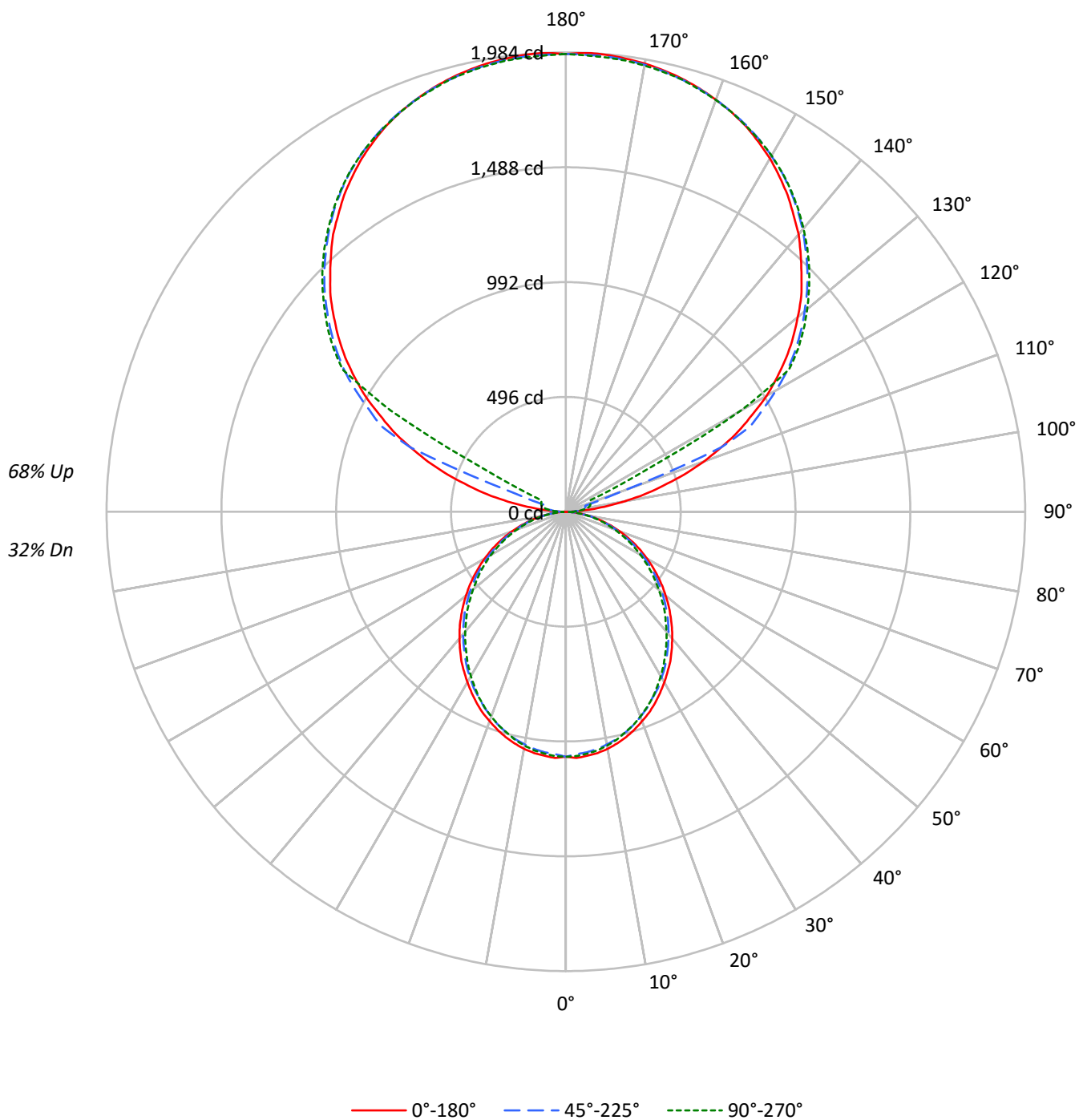
Lumens per Lamp: N/A
Luminaire Lumens: 8492.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1029650

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_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
RCR																	
0	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33
2	85	78	72	67	76	70	65	61	56	53	50	43	41	38	31	29	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	12
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	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

TEST NUMBER: P1029650

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.2
10°-20°	280.2	3.3
20°-30°	411.8	4.8
30°-40°	478.3	5.6
40°-50°	477.7	5.6
50°-60°	416.5	4.9
60°-70°	307.9	3.6
70°-80°	174.2	2.1
80°-90°	49.4	0.6
90°-100°	65.2	0.8
100°-110°	243.0	2.9
110°-120°	644.6	7.6
120°-130°	1069.1	12.6
130°-140°	1135.6	13.4
140°-150°	1055.5	12.4
150°-160°	848.5	10.0
160°-170°	546.8	6.4
170°-180°	188.2	2.2
0°-30°	791.6	9.3
0°-40°	1269.8	15.0
0°-60°	2164.0	25.5
0°-90°	2695.5	31.7
90°-120°	952.9	11.2
90°-150°	4213.0	49.6
90°-180°	5797.0	68.3
0°-180°	8492.0	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	29	36	39	8
95°	93	46	56	63	62	110
105°	435	478	87	103	109	465
115°	823	847	883	220	117	810
125°	1163	1182	1209	1219	1223	1037
135°	1439	1462	1475	1489	1486	1112
145°	1670	1668	1692	1702	1695	1044
155°	1838	1826	1843	1851	1840	847
165°	1937	1929	1933	1943	1933	547
175°	1982	1972	1974	1984	1970	189
180°	1977	1977	1977	1977	1977	

TEST NUMBER: P1029650

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_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°	1.4	17.2	28.6	35.8	38.6
92.5°	35.8	30.0	34.3	37.2	38.6
95°	93.0	45.8	55.8	63.0	61.5
97.5°	167.4	50.1	73.0	77.3	78.7
100°	253.2	57.2	81.5	93.0	95.9
102.5°	347.7	344.8	84.4	100.1	104.4
105°	434.9	477.9	87.3	103.0	108.7
107.5°	536.5	572.3	90.1	105.9	111.6
110°	633.8	663.8	250.4	107.3	113.0

TEST NUMBER: P1029650

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	725.4	751.1	726.8	110.2	114.5
115°	822.7	847.0	882.7	220.3	117.3
117.5°	907.1	935.7	960.0	755.4	380.6
120°	1001.5	1022.9	1048.7	1065.9	872.7
122.5°	1081.6	1104.5	1133.1	1141.7	1143.1
125°	1163.2	1181.8	1208.9	1219.0	1223.2
127.5°	1237.6	1257.6	1279.0	1293.3	1294.8
130°	1307.7	1330.5	1346.3	1362.0	1360.6
132.5°	1379.2	1397.8	1413.5	1426.4	1425.0
135°	1439.3	1462.2	1475.0	1489.4	1486.5
137.5°	1502.2	1519.4	1533.7	1548.0	1543.7
140°	1563.8	1575.2	1590.9	1603.8	1596.7
142.5°	1615.3	1625.3	1643.9	1655.3	1648.2
145°	1669.6	1668.2	1692.5	1702.5	1695.4
147.5°	1716.8	1712.5	1736.9	1744.0	1738.3
150°	1762.6	1752.6	1775.5	1784.1	1776.9
152.5°	1801.2	1789.8	1811.3	1819.8	1809.8
155°	1838.4	1825.6	1842.7	1851.3	1839.9
157.5°	1868.5	1857.0	1869.9	1879.9	1868.5
160°	1894.2	1885.7	1894.2	1902.8	1892.8
162.5°	1917.1	1908.5	1915.7	1925.7	1912.8
165°	1937.2	1928.6	1932.9	1942.9	1932.9
167.5°	1952.9	1944.3	1948.6	1958.6	1945.7
170°	1965.8	1957.2	1960.1	1970.1	1957.2
172.5°	1974.4	1965.8	1968.6	1978.7	1965.8
175°	1981.5	1971.5	1974.4	1984.4	1970.1
177.5°	1984.4	1974.4	1975.8	1985.8	1972.9
180°	1977.2	1977.2	1977.2	1977.2	1977.2

(END OF REPORT)