

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: P1029620

Luminaire Tested: S122DIW-B675D1240UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029620
REPORT IS A COMBINATION OF REPORTS P986417 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-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

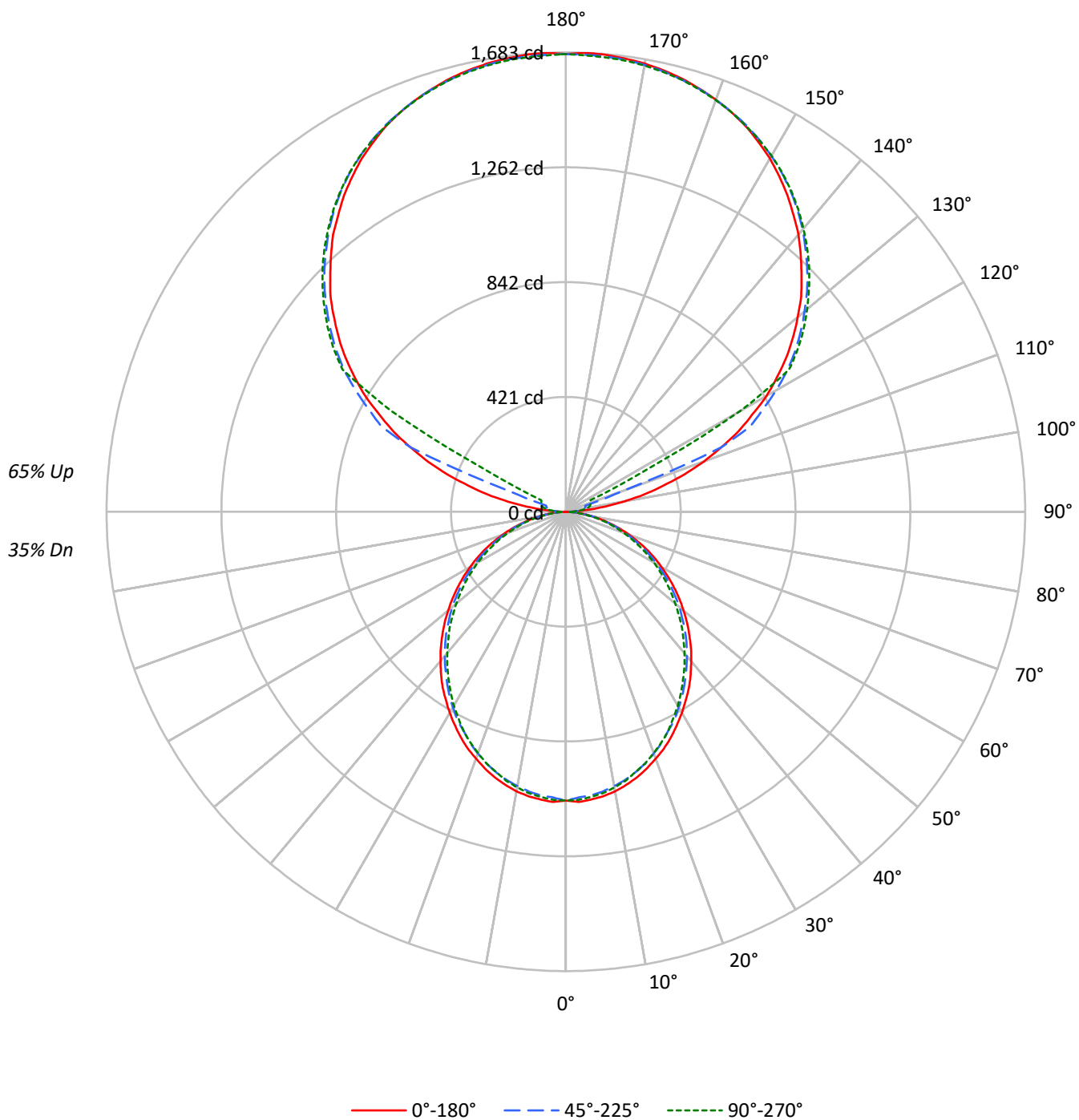
Lumens per Lamp: N/A
Luminaire Lumens: 7611.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	94	94	94	94	75	75	75	58	58	58	43	43	43			35
1	95	90	86	83	85	82	79	76	66	64	62	51	50	48	38	37	36			30
2	86	79	73	68	78	71	66	62	58	54	51	45	43	40	33	32	30			25
3	78	69	62	56	71	63	57	52	51	46	43	40	37	34	29	27	26			21
4	72	61	53	48	65	56	49	44	45	40	36	35	32	29	26	24	22			18
5	66	54	47	41	59	50	43	38	40	35	31	32	28	25	24	21	19			16
6	60	49	41	35	55	44	38	32	36	31	27	29	25	22	21	19	17			14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15			12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	14			11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	16	17	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.3
10°-20°	280.2	3.7
20°-30°	411.8	5.4
30°-40°	478.3	6.3
40°-50°	477.7	6.3
50°-60°	416.5	5.5
60°-70°	307.9	4.0
70°-80°	174.2	2.3
80°-90°	48.9	0.6
90°-100°	55.3	0.7
100°-110°	206.1	2.7
110°-120°	546.7	7.2
120°-130°	906.7	11.9
130°-140°	963.1	12.7
140°-150°	895.1	11.8
150°-160°	719.6	9.5
160°-170°	463.7	6.1
170°-180°	159.6	2.1
0°-30°	791.6	10.4
0°-40°	1269.8	16.7
0°-60°	2164.0	28.4
0°-90°	2694.9	35.4
90°-120°	808.1	10.6
90°-150°	3573.1	46.9
90°-180°	4916.0	64.6
0°-180°	7611.0	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	15	24	30	33	7
95°	79	39	47	53	52	93
105°	369	405	74	87	92	394
115°	698	718	749	187	100	687
125°	986	1002	1025	1034	1037	880
135°	1221	1240	1251	1263	1261	943
145°	1416	1415	1435	1444	1438	886
155°	1559	1548	1563	1570	1560	718
165°	1643	1636	1639	1648	1639	464
175°	1680	1672	1674	1683	1671	160
180°	1677	1677	1677	1677	1677	

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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°	1.2	14.6	24.3	30.3	32.8
92.5°	30.3	25.5	29.1	31.5	32.8
95°	78.9	38.8	47.3	53.4	52.2
97.5°	142.0	42.5	61.9	65.5	66.7
100°	214.8	48.5	69.2	78.9	81.3
102.5°	294.9	292.4	71.6	84.9	88.6
105°	368.9	405.3	74.0	87.4	92.2
107.5°	455.0	485.4	76.4	89.8	94.6
110°	537.5	563.0	212.3	91.0	95.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	615.2	637.0	616.4	93.4	97.1
115°	697.7	718.3	748.7	186.9	99.5
117.5°	769.3	793.5	814.2	640.7	322.8
120°	849.4	867.6	889.4	904.0	740.2
122.5°	917.3	936.7	961.0	968.3	969.5
125°	986.5	1002.3	1025.3	1033.8	1037.4
127.5°	1049.6	1066.6	1084.8	1096.9	1098.1
130°	1109.0	1128.4	1141.8	1155.1	1153.9
132.5°	1169.7	1185.5	1198.8	1209.7	1208.5
135°	1220.7	1240.1	1251.0	1263.1	1260.7
137.5°	1274.0	1288.6	1300.7	1312.9	1309.2
140°	1326.2	1335.9	1349.3	1360.2	1354.1
142.5°	1369.9	1378.4	1394.2	1403.9	1397.8
145°	1416.0	1414.8	1435.4	1443.9	1437.9
147.5°	1456.1	1452.4	1473.0	1479.1	1474.3
150°	1494.9	1486.4	1505.8	1513.1	1507.0
152.5°	1527.6	1517.9	1536.1	1543.4	1534.9
155°	1559.2	1548.3	1562.8	1570.1	1560.4
157.5°	1584.7	1575.0	1585.9	1594.4	1584.7
160°	1606.5	1599.2	1606.5	1613.8	1605.3
162.5°	1625.9	1618.6	1624.7	1633.2	1622.3
165°	1642.9	1635.6	1639.3	1647.8	1639.3
167.5°	1656.3	1649.0	1652.6	1661.1	1650.2
170°	1667.2	1659.9	1662.3	1670.8	1659.9
172.5°	1674.5	1667.2	1669.6	1678.1	1667.2
175°	1680.5	1672.0	1674.5	1683.0	1670.8
177.5°	1683.0	1674.5	1675.7	1684.2	1673.2
180°	1676.9	1676.9	1676.9	1676.9	1676.9

(END OF REPORT)