

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: P1029612

Luminaire Tested: S122DIW-B675D1240UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029612
REPORT IS A COMBINATION OF REPORTS P986404 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_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

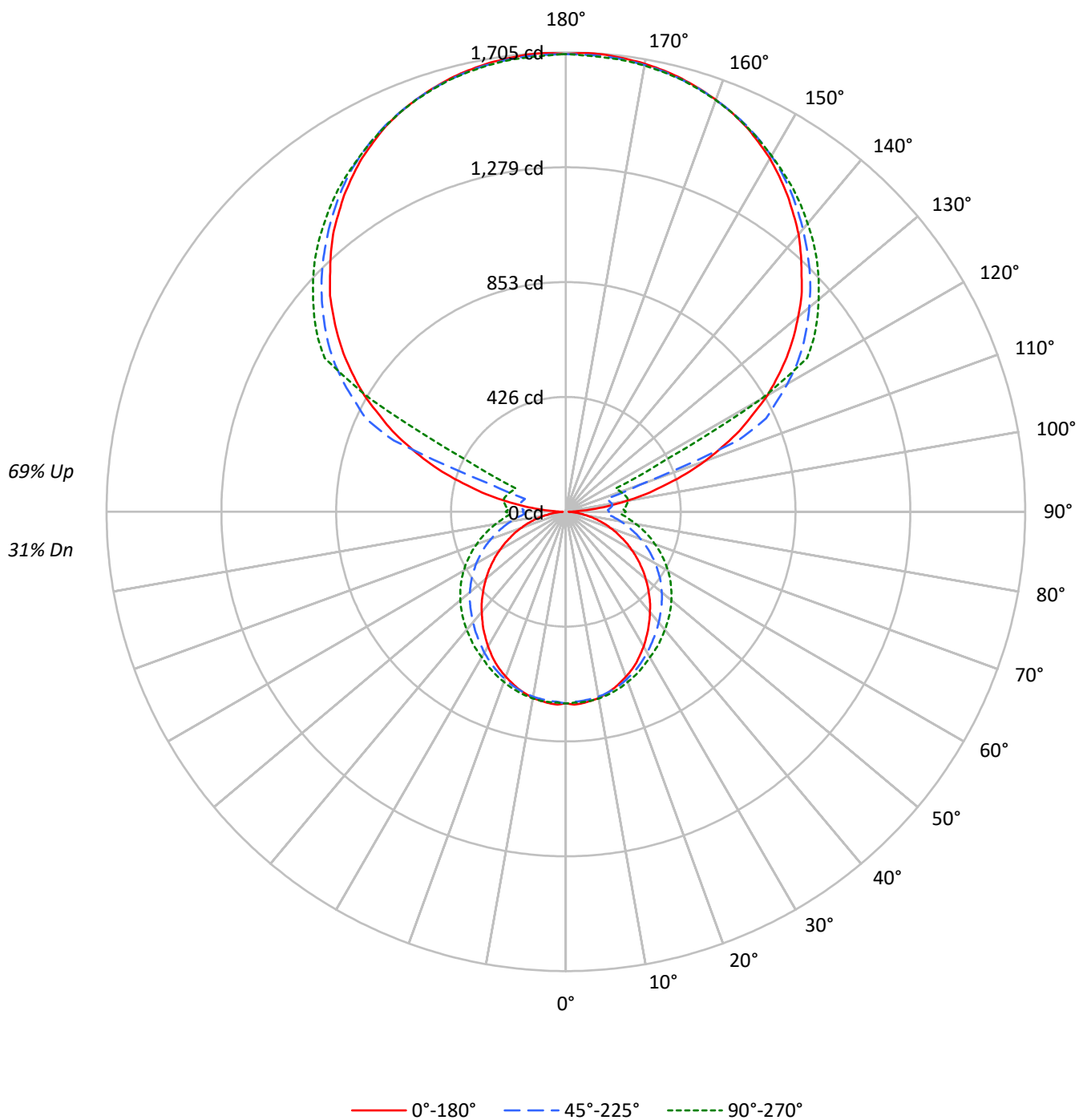
Lumens per Lamp: N/A
Luminaire Lumens: 7697.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	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°	11259	11259	11259
5°	11309	10779	10717
10°	11234	10404	10254
15°	11076	10019	9778
20°	10876	9614	9325
25°	10678	9225	8916
30°	10402	8831	8510
35°	10121	8451	8212
40°	9826	8121	7915
45°	9546	7823	7658
50°	9245	7548	7402
55°	8926	7255	7142
60°	8539	6952	6870
65°	8134	6603	6555
70°	7678	6226	6218
75°	7093	5851	5899
80°	6171	5460	5569
85°	5241	5092	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	0.9
10°-20°	193.4	2.5
20°-30°	293.0	3.8
30°-40°	356.8	4.6
40°-50°	383.9	5.0
50°-60°	372.8	4.8
60°-70°	325.6	4.2
70°-80°	250.6	3.3
80°-90°	170.8	2.2
90°-100°	171.8	2.2
100°-110°	293.4	3.8
110°-120°	609.6	7.9
120°-130°	949.6	12.3
130°-140°	988.7	12.8
140°-150°	909.0	11.8
150°-160°	729.0	9.5
160°-170°	469.8	6.1
170°-180°	161.7	2.1
0°-30°	553.8	7.2
0°-40°	910.7	11.8
0°-60°	1667.4	21.7
0°-90°	2414.4	31.4
90°-120°	1074.8	14.0
90°-150°	3922.1	51.0
90°-180°	5283.0	68.6
0°-180°	7697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	713	710	704	710	709	68
15°	680	682	682	692	691	192
25°	618	626	635	647	650	284
35°	533	550	570	593	600	333
45°	437	465	501	533	543	337
55°	335	372	426	463	476	300
65°	229	279	340	382	396	227
75°	127	184	250	295	308	134
85°	37	101	167	210	225	39
90°	12	85	161	208	223	12
95°	88	96	166	212	223	101
105°	379	446	164	213	230	405
115°	711	743	820	282	205	699
125°	1001	1017	1074	1110	1123	893
135°	1238	1257	1279	1313	1318	956
145°	1434	1433	1454	1469	1468	897
155°	1580	1568	1583	1590	1581	728
165°	1664	1657	1661	1669	1661	470
175°	1702	1694	1696	1705	1693	162
180°	1699	1699	1699	1699	1699	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.3	711.3	711.3	711.3	711.3
2.5°	716.4	713.3	706.1	711.3	709.2
5°	713.3	710.3	704.1	710.3	709.2
7.5°	708.2	706.1	701.0	708.2	707.2
10°	702.0	699.9	696.8	705.1	704.1
12.5°	691.7	692.7	690.7	698.9	697.9
15°	680.4	682.4	682.4	691.7	690.7
17.5°	665.9	670.0	673.1	682.4	682.4
20°	651.5	656.6	660.8	672.1	672.1
22.5°	636.0	642.2	648.4	659.7	661.8
25°	618.5	625.7	635.0	647.4	650.5
27.5°	597.9	609.2	619.5	635.0	637.1
30°	577.3	590.7	604.1	620.6	623.7
32.5°	554.6	570.1	586.5	606.1	612.3
35°	532.9	550.5	570.1	592.7	600.0
37.5°	509.2	528.8	553.6	578.3	585.5
40°	485.5	508.2	536.0	562.8	572.1
42.5°	462.8	485.5	518.5	548.4	557.7
45°	437.1	464.9	501.0	532.9	543.3
47.5°	412.3	442.2	483.5	516.5	527.8
50°	386.6	418.5	464.9	500.0	511.3
52.5°	361.8	395.8	445.3	481.4	493.8
55°	335.0	372.1	425.7	462.8	476.2
57.5°	309.3	350.5	404.1	444.3	457.7
60°	281.4	325.7	384.5	423.7	438.1
62.5°	256.7	303.1	361.8	404.1	417.5
65°	228.8	279.4	340.2	382.4	395.8
67.5°	204.1	256.7	318.5	360.8	375.2
70°	177.3	230.9	294.8	339.1	351.5
72.5°	152.6	208.2	273.2	316.5	331.9
75°	126.8	184.5	250.5	294.8	308.2
77.5°	102.1	161.8	228.8	273.2	287.6
80°	77.3	140.2	207.2	250.5	264.9
82.5°	56.7	118.5	186.6	229.9	243.3
85°	37.1	101.0	167.0	210.3	224.7
87.5°	22.7	84.5	150.5	192.8	206.2
90°	11.5	84.8	160.7	208.0	222.9
92.5°	40.0	89.7	156.3	199.0	212.6
95°	88.1	96.0	166.4	211.8	223.0
97.5°	151.0	94.5	174.0	215.9	229.4
100°	224.8	94.6	173.2	221.1	235.0
102.5°	304.9	336.4	168.4	219.0	234.0
105°	378.9	445.5	163.7	213.2	229.5
107.5°	466.1	521.6	158.8	207.5	223.7
110°	548.6	595.0	290.4	200.4	216.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	627.3	665.9	692.4	195.6	210.7
115°	710.9	743.2	820.3	282.1	204.9
117.5°	782.4	815.2	879.4	734.6	422.9
120°	863.5	886.1	949.4	993.0	838.5
122.5°	932.3	953.0	1015.8	1051.0	1061.5
125°	1001.4	1017.4	1073.6	1110.1	1123.1
127.5°	1065.3	1081.4	1127.8	1165.8	1176.3
130°	1125.6	1144.1	1179.3	1217.6	1224.6
132.5°	1187.0	1201.9	1230.9	1265.7	1272.6
135°	1237.5	1257.2	1278.6	1312.6	1318.3
137.5°	1291.6	1306.4	1323.9	1355.8	1359.3
140°	1344.5	1353.3	1368.9	1396.5	1396.4
142.5°	1388.7	1396.3	1412.3	1434.5	1433.5
145°	1434.4	1433.2	1454.1	1468.9	1467.9
147.5°	1475.0	1471.3	1492.2	1499.4	1497.5
150°	1514.3	1505.7	1525.4	1532.8	1526.6
152.5°	1547.5	1537.7	1556.1	1563.5	1554.9
155°	1579.5	1568.4	1583.2	1590.5	1580.7
157.5°	1605.3	1595.5	1606.5	1615.1	1605.3
160°	1627.4	1620.0	1627.4	1634.8	1626.2
162.5°	1647.1	1639.7	1645.9	1654.5	1643.4
165°	1664.3	1656.9	1660.6	1669.2	1660.6
167.5°	1677.8	1670.4	1674.1	1682.7	1671.7
170°	1688.9	1681.5	1684.0	1692.6	1681.5
172.5°	1696.2	1688.9	1691.3	1699.9	1688.9
175°	1702.4	1693.8	1696.2	1704.9	1692.6
177.5°	1704.9	1696.2	1697.5	1706.1	1695.0
180°	1698.7	1698.7	1698.7	1698.7	1698.7

(END OF REPORT)