

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: P1029606

Luminaire Tested: S122DIW-B675D1240UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029606
REPORT IS A COMBINATION OF REPORTS P986393 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-D1_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

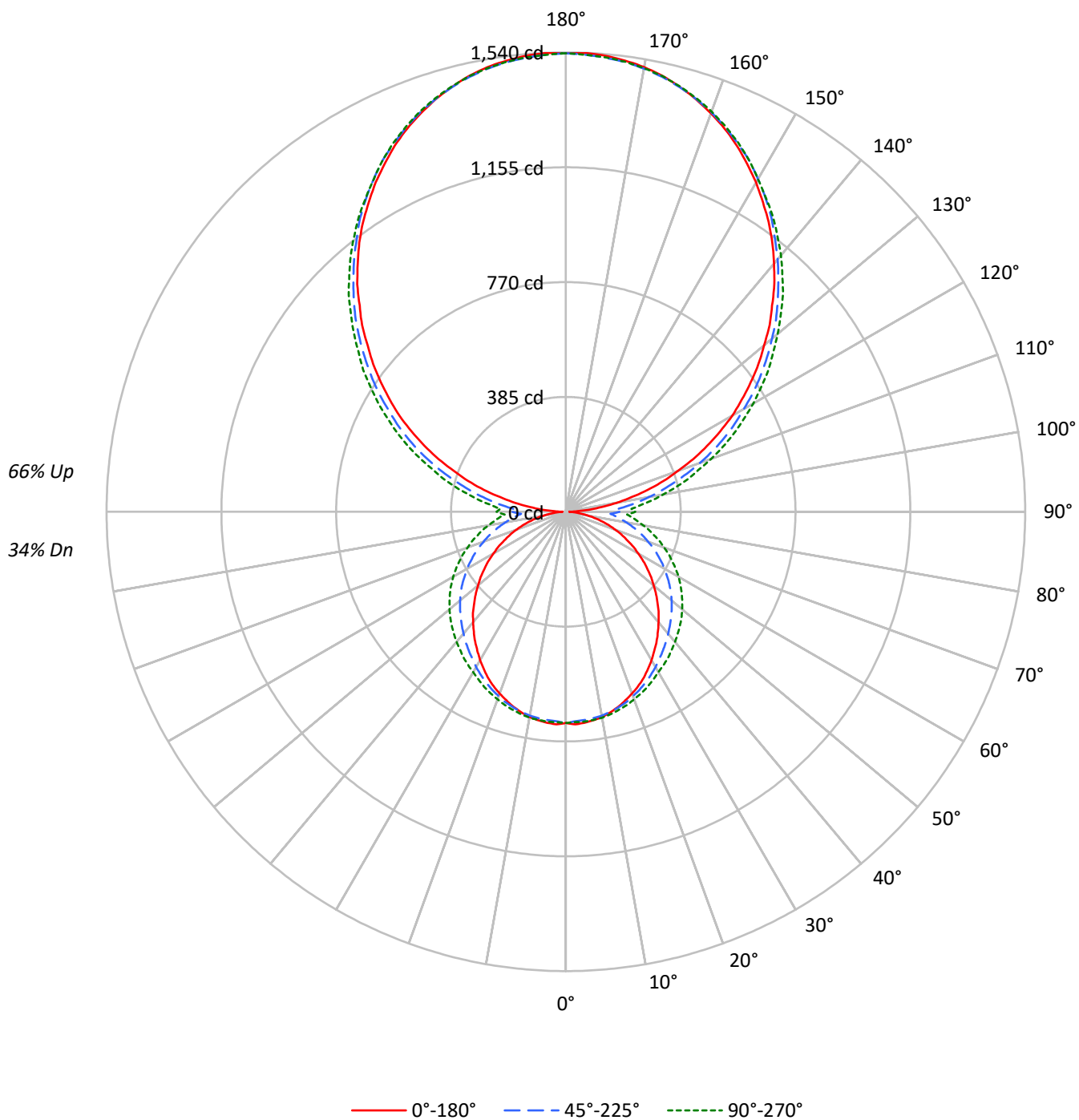
Lumens per Lamp: N/A
Luminaire Lumens: 7004.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42			34
1	93	89	84	81	84	80	76	73	64	61	59	49	47	46	35	34	33			27
2	84	77	70	65	76	69	64	59	55	51	48	42	40	37	30	29	27			22
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	27	24	23			18
4	70	59	51	45	63	53	46	41	43	38	34	33	29	26	24	21	19			15
5	64	52	44	38	57	47	40	35	38	33	29	29	25	22	21	19	16			13
6	59	47	39	33	53	42	35	30	34	29	25	26	22	20	19	16	14			11
7	54	42	34	28	49	38	31	26	31	25	22	24	20	17	17	15	13			10
8	50	38	30	25	45	34	28	23	28	23	19	22	18	15	16	13	11			9
9	47	35	27	22	42	31	25	20	25	20	17	20	16	13	15	12	10			8
10	44	32	24	20	39	29	22	18	23	18	15	18	15	12	13	11	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.0
10°-20°	192.5	2.7
20°-30°	291.7	4.2
30°-40°	355.2	5.1
40°-50°	382.2	5.5
50°-60°	371.2	5.3
60°-70°	324.2	4.6
70°-80°	249.5	3.6
80°-90°	171.5	2.4
90°-100°	210.3	3.0
100°-110°	386.5	5.5
110°-120°	572.9	8.2
120°-130°	711.2	10.2
130°-140°	776.6	11.1
140°-150°	751.0	10.7
150°-160°	628.1	9.0
160°-170°	416.6	5.9
170°-180°	145.6	2.1
0°-30°	551.4	7.9
0°-40°	906.6	12.9
0°-60°	1660.0	23.7
0°-90°	2405.2	34.3
90°-120°	1169.7	16.7
90°-150°	3408.5	48.7
90°-180°	4599.0	65.7
0°-180°	7004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	12	87	181	219	233	11
95°	76	137	201	240	250	82
105°	284	318	374	412	424	300
115°	523	542	586	615	623	517
125°	757	769	798	822	829	677
135°	978	992	1005	1025	1030	756
145°	1186	1195	1202	1210	1210	741
155°	1356	1360	1363	1370	1366	624
165°	1475	1474	1474	1483	1476	416
175°	1535	1531	1528	1537	1529	146
180°	1537	1537	1537	1537	1537	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	11.6	86.7	180.9	219.3	232.9
92.5°	37.7	102.5	166.4	207.8	220.1
95°	75.7	136.8	201.0	240.0	249.7
97.5°	120.1	175.8	240.5	278.5	290.8
100°	171.9	220.3	281.6	319.6	329.6
102.5°	225.4	267.0	327.6	365.9	375.9
105°	284.0	317.7	373.7	412.2	423.5
107.5°	343.7	373.6	424.9	461.1	465.9
110°	399.7	428.0	478.3	511.2	518.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	462.0	486.2	532.1	561.1	569.8
115°	523.0	542.1	585.7	615.2	622.6
117.5°	582.9	601.5	638.1	665.0	671.4
120°	643.9	658.4	689.0	717.8	725.2
122.5°	699.7	713.7	745.2	769.0	775.6
125°	757.1	768.7	797.6	821.5	829.4
127.5°	814.1	827.3	849.8	870.3	875.6
130°	867.3	883.1	902.1	924.1	927.1
132.5°	927.0	938.9	955.6	972.7	977.0
135°	977.8	992.1	1004.9	1025.1	1029.6
137.5°	1034.9	1046.5	1054.3	1072.5	1074.4
140°	1085.4	1096.1	1104.7	1121.1	1122.0
142.5°	1137.3	1148.0	1151.9	1165.5	1165.4
145°	1185.6	1194.7	1202.5	1210.0	1209.9
147.5°	1229.7	1241.4	1246.6	1250.2	1248.1
150°	1275.1	1282.9	1288.1	1292.0	1288.1
152.5°	1315.3	1323.1	1329.6	1334.8	1329.6
155°	1355.6	1359.5	1363.3	1369.8	1365.9
157.5°	1390.6	1393.2	1395.8	1404.9	1398.4
160°	1421.7	1424.3	1425.6	1433.4	1428.2
162.5°	1450.3	1450.3	1451.6	1460.6	1454.1
165°	1474.9	1473.6	1473.6	1482.7	1476.2
167.5°	1497.0	1493.1	1493.1	1502.1	1495.7
170°	1513.8	1509.9	1508.6	1517.7	1509.9
172.5°	1525.5	1521.6	1520.3	1529.4	1521.6
175°	1534.6	1530.7	1528.1	1537.2	1529.4
177.5°	1539.8	1535.9	1533.3	1541.1	1533.3
180°	1537.2	1537.2	1537.2	1537.2	1537.2

(END OF REPORT)