

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: P1029616

Luminaire Tested: S122DIW-B675D1240UB2750-4F0-XX-W2A-F1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029616
REPORT IS A COMBINATION OF REPORTS P986408 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-F1_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

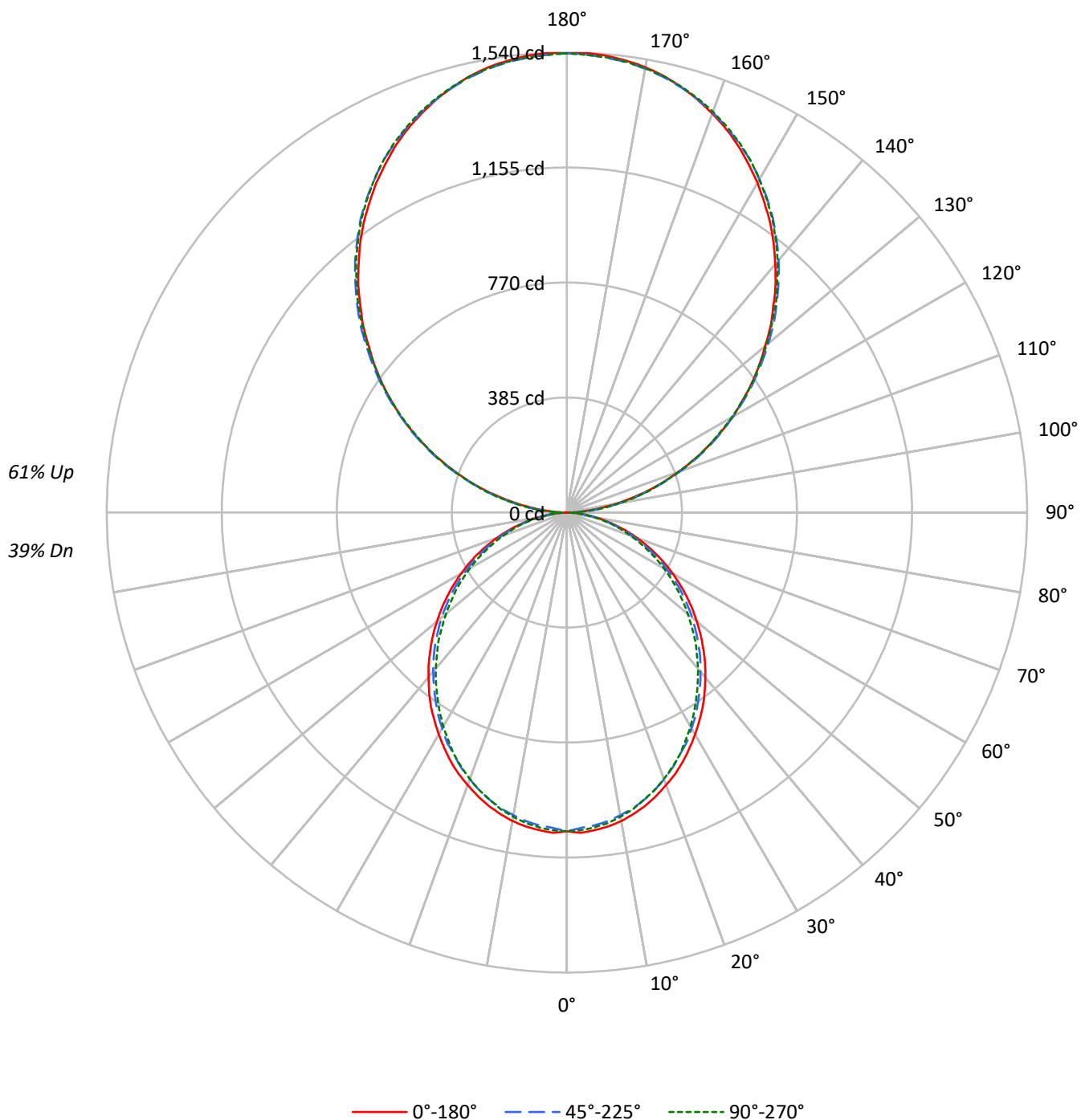
Lumens per Lamp: N/A
Luminaire Lumens: 7017.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	95	95	95	95	77	77	77	61	61	61	46	46	46			39
1	95	91	87	84	86	83	80	77	67	65	63	53	52	51	40	39	39			33
2	87	79	73	68	79	72	67	63	59	55	52	47	44	42	36	34	33			27
3	79	70	63	57	72	64	57	52	52	48	44	41	38	36	32	29	28			23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24			20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21			17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18			15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16			13
8	52	40	33	27	47	37	30	25	31	25	22	25	21	18	19	17	15			12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13			11
10	45	34	26	22	41	31	25	20	26	21	17	21	17	15	16	14	12			10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16891	16891	16891
5°	16919	16102	15987
10°	16782	15368	15062
15°	16536	14627	14090
20°	16204	13824	13168
25°	15873	12984	12249
30°	15456	12195	11284
35°	15064	11362	10336
40°	14578	10541	9441
45°	14096	9725	8563
50°	13569	8896	7650
55°	13014	8010	6787
60°	12393	7049	5890
65°	11710	6075	4946
70°	10844	5005	3993
75°	9644	3859	3084
80°	8191	2622	1985
85°	5947	1220	844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.4
10°-20°	282.6	4.0
20°-30°	415.3	5.9
30°-40°	482.3	6.9
40°-50°	481.7	6.9
50°-60°	420.0	6.0
60°-70°	310.5	4.4
70°-80°	175.7	2.5
80°-90°	50.7	0.7
90°-100°	95.1	1.4
100°-110°	302.3	4.3
110°-120°	517.3	7.4
120°-130°	680.3	9.7
130°-140°	763.6	10.9
140°-150°	748.8	10.7
150°-160°	628.1	9.0
160°-170°	416.6	5.9
170°-180°	145.6	2.1
0°-30°	798.3	11.4
0°-40°	1280.6	18.3
0°-60°	2182.4	31.1
0°-90°	2719.4	38.8
90°-120°	914.6	13.0
90°-150°	3107.3	44.3
90°-180°	4298.0	61.3
0°-180°	7017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1067	1063	1052	1060	1058	101
15°	1016	1010	996	1000	995	286
25°	919	911	894	896	894	423
35°	793	783	766	760	755	495
45°	645	638	623	612	608	498
55°	488	482	470	458	452	437
65°	329	323	313	304	299	326
75°	172	170	165	159	161	184
85°	42	41	40	37	36	47
90°	1	17	45	43	44	7
95°	68	80	83	83	80	75
105°	279	283	285	288	288	294
115°	519	527	524	523	519	513
125°	755	767	763	759	758	675
135°	977	991	994	992	988	755
145°	1186	1195	1202	1204	1199	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°	1067.1	1067.1	1067.1	1067.1	1067.1
2.5°	1073.3	1068.2	1056.9	1067.1	1065.1
5°	1067.1	1063.0	1051.8	1060.0	1057.9
7.5°	1060.0	1053.8	1042.5	1050.7	1048.7
10°	1048.7	1041.5	1029.2	1037.4	1034.3
12.5°	1033.3	1027.1	1014.8	1019.9	1017.9
15°	1015.8	1009.7	996.3	1000.5	995.3
17.5°	994.3	988.1	974.8	979.9	974.8
20°	970.7	964.5	950.2	953.3	949.1
22.5°	947.1	937.9	924.5	924.5	922.5
25°	919.4	911.2	893.7	895.8	893.7
27.5°	888.6	881.4	868.1	865.0	859.9
30°	857.8	849.6	834.2	831.1	827.0
32.5°	825.0	818.8	802.4	796.3	792.2
35°	793.2	782.9	766.5	760.3	755.2
37.5°	757.3	748.0	731.6	724.4	719.3
40°	720.3	712.1	695.7	686.5	682.4
42.5°	684.4	676.2	659.8	649.5	643.4
45°	645.4	638.2	622.8	611.6	607.5
47.5°	607.5	600.3	583.9	572.6	566.4
50°	567.4	562.3	547.9	533.6	528.4
52.5°	528.4	521.3	507.9	496.6	489.5
55°	488.4	482.3	470.0	457.6	452.5
57.5°	448.4	443.3	429.9	417.6	413.5
60°	408.4	404.3	389.9	378.6	375.6
62.5°	369.4	362.2	352.0	341.7	337.6
65°	329.4	323.2	313.0	303.7	298.6
67.5°	288.3	283.2	274.0	266.8	262.7
70°	250.4	246.3	237.0	229.8	225.7
72.5°	211.4	207.3	202.1	195.0	191.9
75°	172.4	170.3	165.2	159.0	161.1
77.5°	137.5	133.4	131.3	128.3	125.2
80°	102.6	101.6	99.5	96.5	94.4
82.5°	69.8	69.8	68.7	64.6	64.6
85°	42.1	41.0	40.0	36.9	35.9
87.5°	18.5	16.4	14.4	11.3	10.3
90°	1.3	16.9	45.4	42.8	44.1
92.5°	28.5	38.9	40.2	41.5	41.5
95°	67.5	80.4	83.0	83.0	80.4
97.5°	112.9	124.5	129.7	129.7	129.7
100°	164.7	175.1	179.0	179.0	177.7
102.5°	219.2	227.0	232.2	233.5	232.2
105°	278.9	282.8	285.4	288.0	288.0
107.5°	338.6	343.8	343.8	345.1	338.6
110°	395.6	403.4	403.4	403.4	399.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	457.9	465.7	464.4	460.5	457.9
115°	518.9	526.7	524.1	522.8	518.9
117.5°	579.8	590.2	583.7	579.8	576.0
120°	640.8	651.2	640.8	640.8	636.9
122.5°	696.6	709.6	703.1	699.2	696.6
125°	755.0	766.6	762.7	758.9	757.6
127.5°	812.0	826.3	821.1	815.9	812.0
130°	865.2	882.1	879.5	876.9	871.7
132.5°	924.9	937.9	939.2	932.7	928.8
135°	976.8	991.1	993.6	992.3	988.5
137.5°	1033.9	1045.5	1048.1	1046.8	1041.6
140°	1084.4	1096.1	1102.6	1102.6	1097.4
142.5°	1136.3	1148.0	1151.9	1153.2	1148.0
145°	1185.6	1194.7	1202.5	1203.8	1198.6
147.5°	1229.7	1241.4	1246.6	1249.2	1244.0
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)