

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: P1029618

Luminaire Tested: S122DIW-B675D1240UB2750-4F0-XX-W2A-F1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029618
REPORT IS A COMBINATION OF REPORTS P986410 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_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

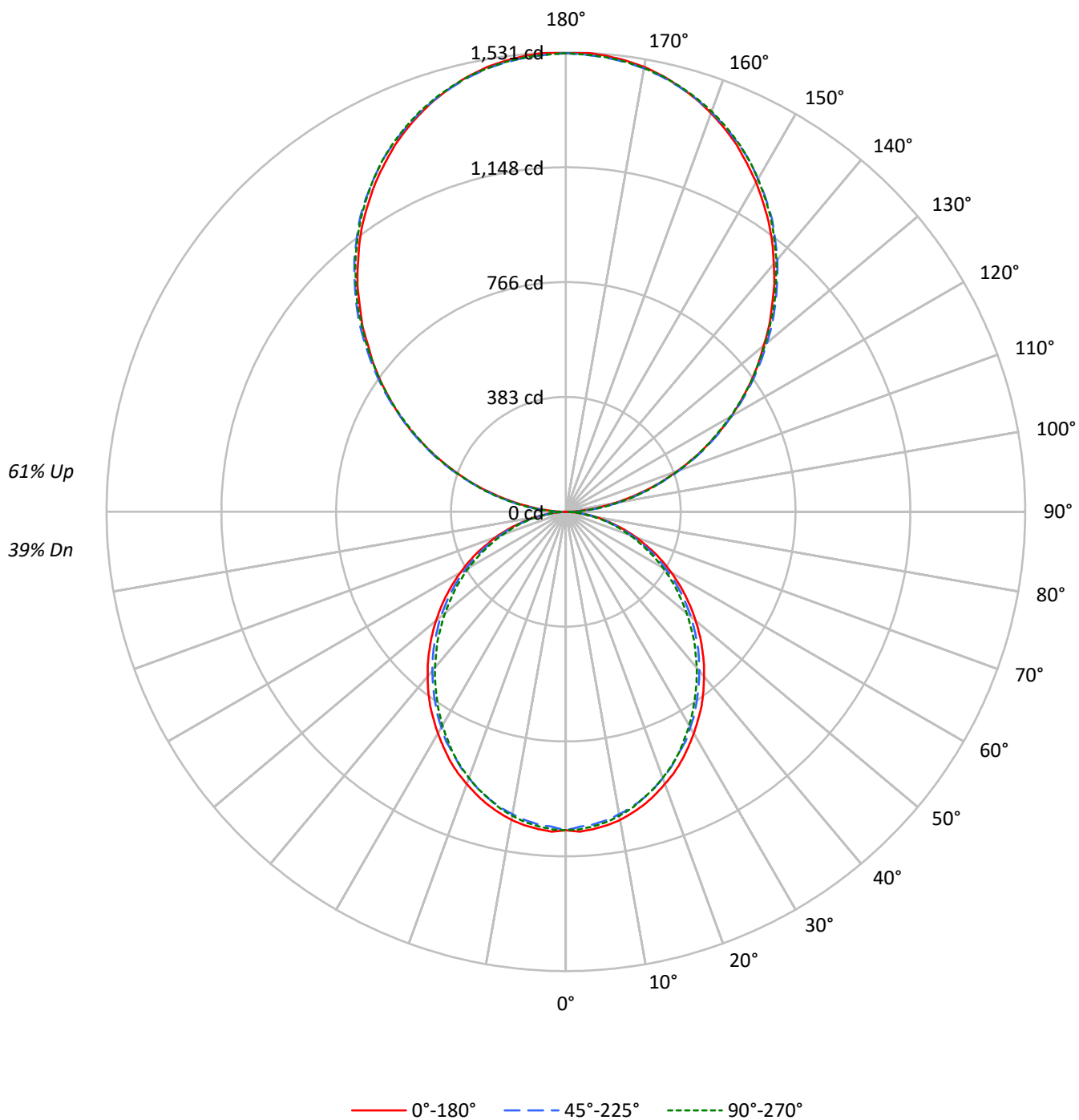
Lumens per Lamp: N/A
Luminaire Lumens: 6978.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	16800	16800	16800
5°	16827	16012	15899
10°	16689	15283	14979
15°	16445	14547	14012
20°	16114	13747	13096
25°	15785	12913	12182
30°	15371	12127	11222
35°	14981	11300	10279
40°	14497	10483	9388
45°	14019	9672	8515
50°	13494	8847	7608
55°	12942	7966	6749
60°	12323	7011	5857
65°	11646	6040	4917
70°	10783	4978	3972
75°	9588	3838	3066
80°	8143	2609	1974
85°	5905	1214	839

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14019 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.4
10°-20°	281.0	4.0
20°-30°	413.0	5.9
30°-40°	479.7	6.9
40°-50°	479.1	6.9
50°-60°	417.7	6.0
60°-70°	308.8	4.4
70°-80°	174.7	2.5
80°-90°	50.5	0.7
90°-100°	94.6	1.4
100°-110°	300.6	4.3
110°-120°	514.4	7.4
120°-130°	676.5	9.7
130°-140°	759.3	10.9
140°-150°	744.6	10.7
150°-160°	624.6	9.0
160°-170°	414.3	5.9
170°-180°	144.8	2.1
0°-30°	793.9	11.4
0°-40°	1273.6	18.3
0°-60°	2170.4	31.1
0°-90°	2704.3	38.8
90°-120°	909.5	13.0
90°-150°	3090.0	44.3
90°-180°	4274.0	61.2
0°-180°	6978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1061	1057	1046	1054	1052	101
15°	1010	1004	991	995	990	285
25°	914	906	889	891	889	421
35°	789	779	762	756	751	493
45°	642	635	619	608	604	495
55°	486	480	467	455	450	434
65°	328	321	311	302	297	324
75°	171	169	164	158	160	183
85°	42	41	40	37	36	47
90°	1	17	45	43	44	7
95°	67	80	83	83	80	75
105°	277	281	284	286	286	293
115°	516	524	521	520	516	510
125°	751	762	758	755	753	671
135°	971	986	988	987	983	751
145°	1179	1188	1196	1197	1192	737
155°	1348	1352	1356	1362	1358	621
165°	1467	1465	1465	1474	1468	414
175°	1526	1522	1520	1529	1521	145
180°	1529	1529	1529	1529	1529	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1067.4	1062.3	1051.0	1061.3	1059.2
5°	1061.3	1057.2	1045.9	1054.1	1052.1
7.5°	1054.1	1048.0	1036.8	1044.9	1042.9
10°	1042.9	1035.7	1023.5	1031.7	1028.6
12.5°	1027.6	1021.5	1009.2	1014.3	1012.3
15°	1010.2	1004.1	990.8	994.9	989.8
17.5°	988.8	982.7	969.4	974.5	969.4
20°	965.3	959.2	944.9	948.0	943.9
22.5°	941.9	932.7	919.4	919.4	917.4
25°	914.3	906.1	888.8	890.8	888.8
27.5°	883.7	876.6	863.3	860.2	855.1
30°	853.1	844.9	829.6	826.6	822.5
32.5°	820.4	814.3	798.0	791.9	787.8
35°	788.8	778.6	762.3	756.1	751.0
37.5°	753.1	743.9	727.6	720.4	715.3
40°	716.3	708.2	691.9	682.7	678.6
42.5°	680.6	672.5	656.1	645.9	639.8
45°	641.9	634.7	619.4	608.2	604.1
47.5°	604.1	597.0	580.6	569.4	563.3
50°	564.3	559.2	544.9	530.6	525.5
52.5°	525.5	518.4	505.1	493.9	486.7
55°	485.7	479.6	467.4	455.1	450.0
57.5°	445.9	440.8	427.6	415.3	411.2
60°	406.1	402.1	387.8	376.5	373.5
62.5°	367.4	360.2	350.0	339.8	335.7
65°	327.6	321.4	311.2	302.0	296.9
67.5°	286.7	281.6	272.5	265.3	261.2
70°	249.0	244.9	235.7	228.6	224.5
72.5°	210.2	206.1	201.0	193.9	190.8
75°	171.4	169.4	164.3	158.2	160.2
77.5°	136.7	132.7	130.6	127.6	124.5
80°	102.0	101.0	99.0	95.9	93.9
82.5°	69.4	69.4	68.4	64.3	64.3
85°	41.8	40.8	39.8	36.7	35.7
87.5°	18.4	16.3	14.3	11.2	10.2
90°	1.3	16.8	45.1	42.6	43.9
92.5°	28.4	38.7	40.0	41.3	41.3
95°	67.1	80.0	82.6	82.6	80.0
97.5°	112.2	123.8	129.0	129.0	129.0
100°	163.8	174.1	178.0	178.0	176.7
102.5°	218.0	225.7	230.9	232.2	230.9
105°	277.3	281.2	283.8	286.4	286.4
107.5°	336.7	341.8	341.8	343.1	336.7
110°	393.4	401.2	401.2	401.2	397.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	455.4	463.1	461.8	457.9	455.4
115°	516.0	523.7	521.1	519.8	516.0
117.5°	576.6	586.9	580.5	576.6	572.7
120°	637.2	647.6	637.2	637.2	633.4
122.5°	692.7	705.6	699.2	695.3	692.7
125°	750.8	762.4	758.5	754.6	753.3
127.5°	807.5	821.7	816.5	811.4	807.5
130°	860.4	877.2	874.6	872.0	866.8
132.5°	919.7	932.6	933.9	927.5	923.6
135°	971.3	985.5	988.1	986.8	982.9
137.5°	1028.1	1039.7	1042.3	1041.0	1035.8
140°	1078.4	1090.0	1096.5	1096.5	1091.3
142.5°	1130.0	1141.6	1145.5	1146.8	1141.6
145°	1179.0	1188.0	1195.8	1197.1	1191.9
147.5°	1222.9	1234.5	1239.6	1242.2	1237.1
150°	1268.0	1275.8	1280.9	1284.8	1280.9
152.5°	1308.0	1315.7	1322.2	1327.4	1322.2
155°	1348.0	1351.9	1355.7	1362.2	1358.3
157.5°	1382.8	1385.4	1388.0	1397.0	1390.6
160°	1413.8	1416.4	1417.7	1425.4	1420.2
162.5°	1442.2	1442.2	1443.5	1452.5	1446.0
165°	1466.7	1465.4	1465.4	1474.4	1468.0
167.5°	1488.6	1484.7	1484.7	1493.8	1487.3
170°	1505.4	1501.5	1500.2	1509.2	1501.5
172.5°	1517.0	1513.1	1511.8	1520.9	1513.1
175°	1526.0	1522.1	1519.6	1528.6	1520.9
177.5°	1531.2	1527.3	1524.7	1532.5	1524.7
180°	1528.6	1528.6	1528.6	1528.6	1528.6

(END OF REPORT)