

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: P1029679

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029679
REPORT IS A COMBINATION OF REPORTS P986591 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D435UB2750-4F0-XX-W2A-F1_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

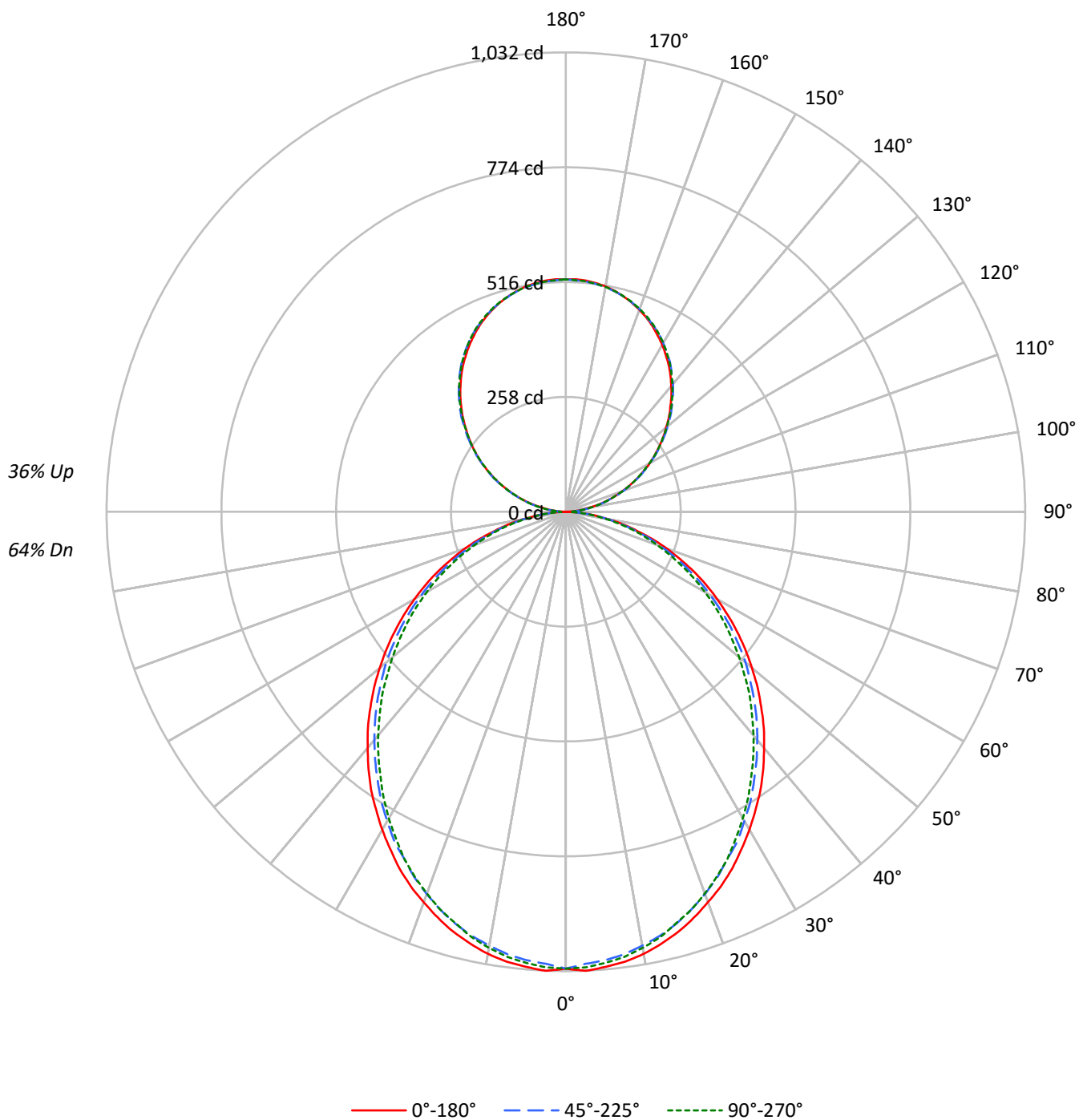
Lumens per Lamp: N/A
Luminaire Lumens: 4072.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 49.1
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

TEST NUMBER: P1029679

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-F1_5000K

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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69
1	101	97	93	89	95	91	87	84	80	77	75	70	68	66	61	60	58
2	92	84	78	73	86	79	74	69	70	66	62	62	58	56	54	51	49
3	84	74	67	61	78	70	63	58	62	57	52	55	50	47	48	45	42
4	77	66	58	51	72	62	55	49	55	49	45	49	44	40	43	39	36
5	71	59	50	44	66	55	48	42	49	43	39	44	39	35	38	35	32
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28
7	60	48	40	34	56	45	38	32	40	34	30	36	31	27	32	28	25
8	56	43	35	30	53	41	34	29	37	31	27	33	28	24	29	25	22
9	52	40	32	27	49	38	31	26	34	28	24	30	26	22	27	23	20
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16246	16246	16246
5°	16272	15485	15375
10°	16139	14779	14486
15°	15903	14068	13550
20°	15583	13295	12665
25°	15265	12487	11780
30°	14865	11728	10853
35°	14487	10926	9941
40°	14020	10138	9078
45°	13556	9353	8234
50°	13050	8556	7357
55°	12516	7703	6527
60°	11916	6780	5664
65°	11262	5842	4757
70°	10428	4815	3841
75°	9275	3712	2965
80°	7880	2522	1909
85°	5721	1174	811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13556 cd/sqm

TEST NUMBER: P1029679

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-F1_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	2.4
10°-20°	271.8	6.7
20°-30°	399.4	9.8
30°-40°	463.9	11.4
40°-50°	463.3	11.4
50°-60°	404.0	9.9
60°-70°	298.6	7.3
70°-80°	169.0	4.1
80°-90°	46.1	1.1
90°-100°	32.3	0.8
100°-110°	102.7	2.5
110°-120°	175.7	4.3
120°-130°	231.0	5.7
130°-140°	259.3	6.4
140°-150°	254.3	6.2
150°-160°	213.3	5.2
160°-170°	141.5	3.5
170°-180°	49.4	1.2
0°-30°	767.7	18.9
0°-40°	1231.6	30.2
0°-60°	2098.9	51.5
0°-90°	2612.5	64.2
90°-120°	310.6	7.6
90°-150°	1055.3	25.9
90°-180°	1460.0	35.9
0°-180°	4072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1026	1022	1012	1019	1017	97
15°	977	971	958	962	957	275
25°	884	876	860	862	860	407
35°	763	753	737	731	726	476
45°	621	614	599	588	584	479
55°	470	464	452	440	435	420
65°	317	311	301	292	287	313
75°	166	164	159	153	155	177
85°	40	40	38	36	34	45
90°	0	6	15	14	15	4
95°	23	27	28	28	27	26
105°	95	96	97	98	98	100
115°	176	179	178	178	176	174
125°	256	260	259	258	257	229
135°	332	337	338	337	336	256
145°	403	406	408	409	407	252
155°	460	462	463	465	464	212
165°	501	500	500	504	501	141
175°	521	520	519	522	519	50
180°	522	522	522	522	522	

TEST NUMBER: P1029679

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-F1_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.3	1026.3	1026.3	1026.3	1026.3
2.5°	1032.2	1027.3	1016.4	1026.3	1024.3
5°	1026.3	1022.3	1011.5	1019.4	1017.4
7.5°	1019.4	1013.4	1002.6	1010.5	1008.5
10°	1008.5	1001.6	989.8	997.7	994.7
12.5°	993.7	987.8	975.9	980.9	978.9
15°	976.9	971.0	958.2	962.1	957.2
17.5°	956.2	950.3	937.5	942.4	937.5
20°	933.5	927.6	913.8	916.7	912.8
22.5°	910.8	901.9	889.1	889.1	887.1
25°	884.2	876.3	859.5	861.5	859.5
27.5°	854.6	847.7	834.8	831.9	826.9
30°	825.0	817.1	802.3	799.3	795.4
32.5°	793.4	787.5	771.7	765.8	761.8
35°	762.8	752.9	737.1	731.2	726.3
37.5°	728.3	719.4	703.6	696.7	691.7
40°	692.7	684.8	669.1	660.2	656.2
42.5°	658.2	650.3	634.5	624.6	618.7
45°	620.7	613.8	599.0	588.1	584.2
47.5°	584.2	577.3	561.5	550.6	544.7
50°	545.7	540.8	527.0	513.1	508.2
52.5°	508.2	501.3	488.5	477.6	470.7
55°	469.7	463.8	452.0	440.1	435.2
57.5°	431.2	426.3	413.5	401.6	397.7
60°	392.7	388.8	375.0	364.1	361.2
62.5°	355.2	348.3	338.5	328.6	324.7
65°	316.8	310.8	301.0	292.1	287.2
67.5°	277.3	272.4	263.5	256.6	252.6
70°	240.8	236.8	228.0	221.0	217.1
72.5°	203.3	199.3	194.4	187.5	184.5
75°	165.8	163.8	158.9	153.0	154.9
77.5°	132.2	128.3	126.3	123.3	120.4
80°	98.7	97.7	95.7	92.8	90.8
82.5°	67.1	67.1	66.1	62.2	62.2
85°	40.5	39.5	38.5	35.5	34.5
87.5°	17.8	15.8	13.8	10.9	9.9
90°	0.4	5.7	15.4	14.5	15.0
92.5°	9.7	13.2	13.7	14.1	14.1
95°	22.9	27.3	28.2	28.2	27.3
97.5°	38.3	42.3	44.1	44.1	44.1
100°	55.9	59.5	60.8	60.8	60.4
102.5°	74.5	77.1	78.9	79.3	78.9
105°	94.7	96.0	96.9	97.8	97.8
107.5°	115.0	116.7	116.7	117.2	115.0
110°	134.4	137.0	137.0	137.0	135.7

TEST NUMBER: P1029679

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-F1_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	155.5	158.2	157.7	156.4	155.5
115°	176.2	178.9	178.0	177.5	176.2
117.5°	196.9	200.4	198.2	196.9	195.6
120°	217.6	221.1	217.6	217.6	216.3
122.5°	236.6	241.0	238.8	237.4	236.6
125°	256.4	260.4	259.0	257.7	257.3
127.5°	275.8	280.6	278.9	277.1	275.8
130°	293.8	299.6	298.7	297.8	296.0
132.5°	314.1	318.5	318.9	316.7	315.4
135°	331.7	336.6	337.5	337.0	335.7
137.5°	351.1	355.1	356.0	355.5	353.8
140°	368.3	372.3	374.5	374.5	372.7
142.5°	385.9	389.9	391.2	391.6	389.9
145°	402.7	405.7	408.4	408.8	407.1
147.5°	417.6	421.6	423.4	424.2	422.5
150°	433.0	435.7	437.5	438.8	437.5
152.5°	446.7	449.3	451.6	453.3	451.6
155°	460.4	461.7	463.0	465.2	463.9
157.5°	472.3	473.1	474.0	477.1	474.9
160°	482.8	483.7	484.2	486.8	485.0
162.5°	492.5	492.5	493.0	496.0	493.8
165°	500.9	500.4	500.4	503.5	501.3
167.5°	508.4	507.1	507.1	510.1	507.9
170°	514.1	512.8	512.3	515.4	512.8
172.5°	518.1	516.7	516.3	519.4	516.7
175°	521.2	519.8	519.0	522.0	519.4
177.5°	522.9	521.6	520.7	523.4	520.7
180°	522.0	522.0	522.0	522.0	522.0

(END OF REPORT)