

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: P1029233

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029233
REPORT IS A COMBINATION OF REPORTS P985236 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D435UB2750-4F0-XX-W2A-D_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

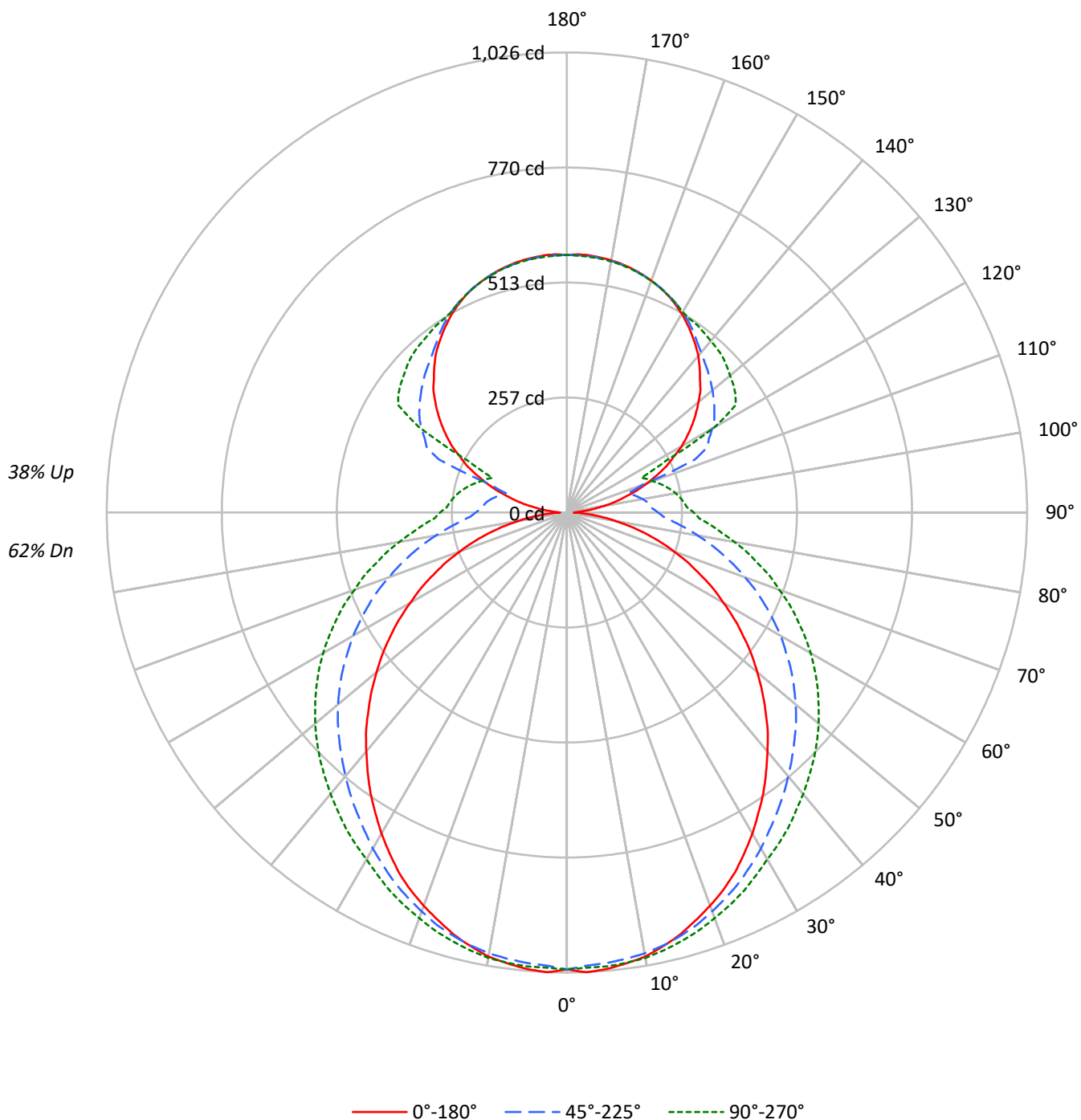
Lumens per Lamp: N/A
Luminaire Lumens: 5573.0 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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: P1029233

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-D_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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	99	93	89	85	92	87	83	80	76	73	70	66	64	61	56	55	53
2	89	81	73	68	83	75	69	64	66	61	57	57	53	50	49	46	43
3	81	70	62	55	75	66	58	53	57	52	47	50	45	41	42	39	36
4	74	62	53	46	68	58	50	44	51	44	39	44	39	35	38	34	31
5	68	55	46	40	63	52	44	38	45	39	34	39	34	30	34	30	26
6	62	49	40	34	58	46	38	32	41	34	29	35	30	26	30	26	23
7	57	44	36	30	53	42	34	28	37	30	26	32	27	23	28	23	20
8	53	40	32	26	50	38	30	25	33	27	23	29	24	20	25	21	18
9	50	37	29	23	46	35	27	22	31	25	20	27	22	18	23	19	16
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16130	16130	16130
5°	16202	15441	15354
10°	16094	14906	14688
15°	15867	14353	14006
20°	15580	13772	13358
25°	15298	13216	12771
30°	14901	12651	12190
35°	14500	12105	11764
40°	14078	11634	11339
45°	13674	11207	10970
50°	13243	10813	10604
55°	12787	10395	10233
60°	12235	9958	9842
65°	11653	9457	9392
70°	11000	8921	8909
75°	10159	8383	8452
80°	8846	7821	7978
85°	7515	7294	7570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13674 cd/sqm

TEST NUMBER: P1029233

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-D_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.7
10°-20°	277.0	5.0
20°-30°	419.8	7.5
30°-40°	511.2	9.2
40°-50°	550.0	9.9
50°-60°	534.1	9.6
60°-70°	466.4	8.4
70°-80°	359.0	6.4
80°-90°	241.5	4.3
90°-100°	184.8	3.3
100°-110°	191.8	3.4
110°-120°	267.3	4.8
120°-130°	355.2	6.4
130°-140°	348.6	6.3
140°-150°	309.8	5.6
150°-160°	246.5	4.4
160°-170°	158.8	2.9
170°-180°	54.7	1.0
0°-30°	793.4	14.2
0°-40°	1304.6	23.4
0°-60°	2388.7	42.9
0°-90°	3455.6	62.0
90°-120°	643.8	11.6
90°-150°	1657.4	29.7
90°-180°	2117.0	38.0
0°-180°	5573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1022	1018	1009	1018	1016	97
15°	975	978	978	991	989	275
25°	886	896	910	927	932	407
35°	764	789	817	849	860	477
45°	626	666	718	764	778	483
55°	480	533	610	663	682	429
65°	328	400	487	548	567	326
75°	182	264	359	422	442	192
85°	53	145	239	301	322	56
90°	15	105	203	264	283	12
95°	39	94	186	244	262	41
105°	134	189	152	209	226	143
115°	245	268	345	197	183	241
125°	341	346	401	444	459	305
135°	420	426	445	480	491	325
145°	485	485	492	504	509	304
155°	534	530	535	538	534	246
165°	563	560	562	564	562	159
175°	576	573	574	576	572	55
180°	574	574	574	574	574	

TEST NUMBER: P1029233

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1026.3	1021.9	1011.6	1019.0	1016.0
5°	1021.9	1017.5	1008.6	1017.5	1016.0
7.5°	1014.5	1011.6	1004.2	1014.5	1013.1
10°	1005.7	1002.7	998.3	1010.1	1008.6
12.5°	990.9	992.4	989.4	1001.2	999.8
15°	974.7	977.6	977.6	990.9	989.4
17.5°	954.0	959.9	964.3	977.6	977.6
20°	933.3	940.7	946.6	962.8	962.8
22.5°	911.2	920.0	928.9	945.1	948.1
25°	886.1	896.4	909.7	927.4	931.8
27.5°	856.5	872.8	887.5	909.7	912.6
30°	827.0	846.2	865.4	889.0	893.4
32.5°	794.5	816.6	840.3	868.3	877.2
35°	763.5	788.6	816.6	849.1	859.5
37.5°	729.5	757.6	793.0	828.5	838.8
40°	695.6	728.0	767.9	806.3	819.6
42.5°	663.1	695.6	742.8	785.6	798.9
45°	626.1	666.0	717.7	763.5	778.3
47.5°	590.7	633.5	692.6	739.9	756.1
50°	553.8	599.6	666.0	716.2	732.5
52.5°	518.3	567.1	638.0	689.6	707.4
55°	479.9	533.1	609.9	663.1	682.3
57.5°	443.0	502.1	578.9	636.5	655.7
60°	403.2	466.7	550.8	606.9	627.6
62.5°	367.7	434.2	518.3	578.9	598.1
65°	327.8	400.2	487.3	547.9	567.1
67.5°	292.4	367.7	456.3	516.9	537.5
70°	254.0	330.8	422.4	485.9	503.6
72.5°	218.6	298.3	391.3	453.4	475.5
75°	181.6	264.3	358.9	422.4	441.6
77.5°	146.2	231.9	327.8	391.3	412.0
80°	110.8	200.8	296.8	358.9	379.5
82.5°	81.2	169.8	267.3	329.3	348.5
85°	53.2	144.7	239.2	301.3	321.9
87.5°	32.5	121.1	215.6	276.2	295.4
90°	15.2	105.4	203.2	264.4	282.9
92.5°	23.7	100.3	191.6	250.0	268.2
95°	38.8	94.5	186.0	244.2	261.6
97.5°	58.9	88.3	180.7	236.5	254.8
100°	83.9	81.6	171.4	229.3	246.4
102.5°	109.9	157.8	161.8	219.6	237.0
105°	133.8	189.0	152.4	208.6	226.5
107.5°	163.3	209.1	142.9	197.7	215.5
110°	190.0	228.3	180.5	186.3	204.1



TEST NUMBER: P1029233

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.6	247.7	308.6	176.7	194.3
115°	244.9	268.3	345.1	196.9	183.3
117.5°	267.9	288.0	357.2	342.1	247.9
120°	295.3	307.5	374.1	420.5	380.5
122.5°	318.6	326.8	389.7	432.1	445.8
125°	340.9	346.3	401.4	444.2	458.8
127.5°	362.5	366.8	412.9	454.0	467.8
130°	382.9	388.0	423.6	463.6	475.0
132.5°	403.7	407.6	434.3	472.0	483.4
135°	419.6	426.3	444.7	480.0	491.0
137.5°	437.9	442.9	454.5	486.6	495.8
140°	455.8	457.6	465.2	492.5	499.3
142.5°	470.8	472.2	477.6	498.6	503.9
145°	485.1	484.6	491.7	503.5	508.7
147.5°	498.8	497.5	504.6	508.2	510.9
150°	512.1	509.2	515.8	518.3	516.2
152.5°	523.3	520.0	526.2	528.7	525.8
155°	534.1	530.4	535.3	537.8	534.5
157.5°	542.8	539.5	543.2	546.2	542.8
160°	550.3	547.8	550.3	552.8	549.9
162.5°	557.0	554.5	556.5	559.5	555.7
165°	562.8	560.3	561.5	564.4	561.5
167.5°	567.4	564.9	566.1	569.0	565.3
170°	571.1	568.6	569.4	572.3	568.6
172.5°	573.6	571.1	571.9	574.8	571.1
175°	575.7	572.8	573.6	576.5	572.3
177.5°	576.5	573.6	574.0	576.9	573.2
180°	574.4	574.4	574.4	574.4	574.4

(END OF REPORT)