

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: P1029243

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029243
REPORT IS A COMBINATION OF REPORTS P985251 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-F_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

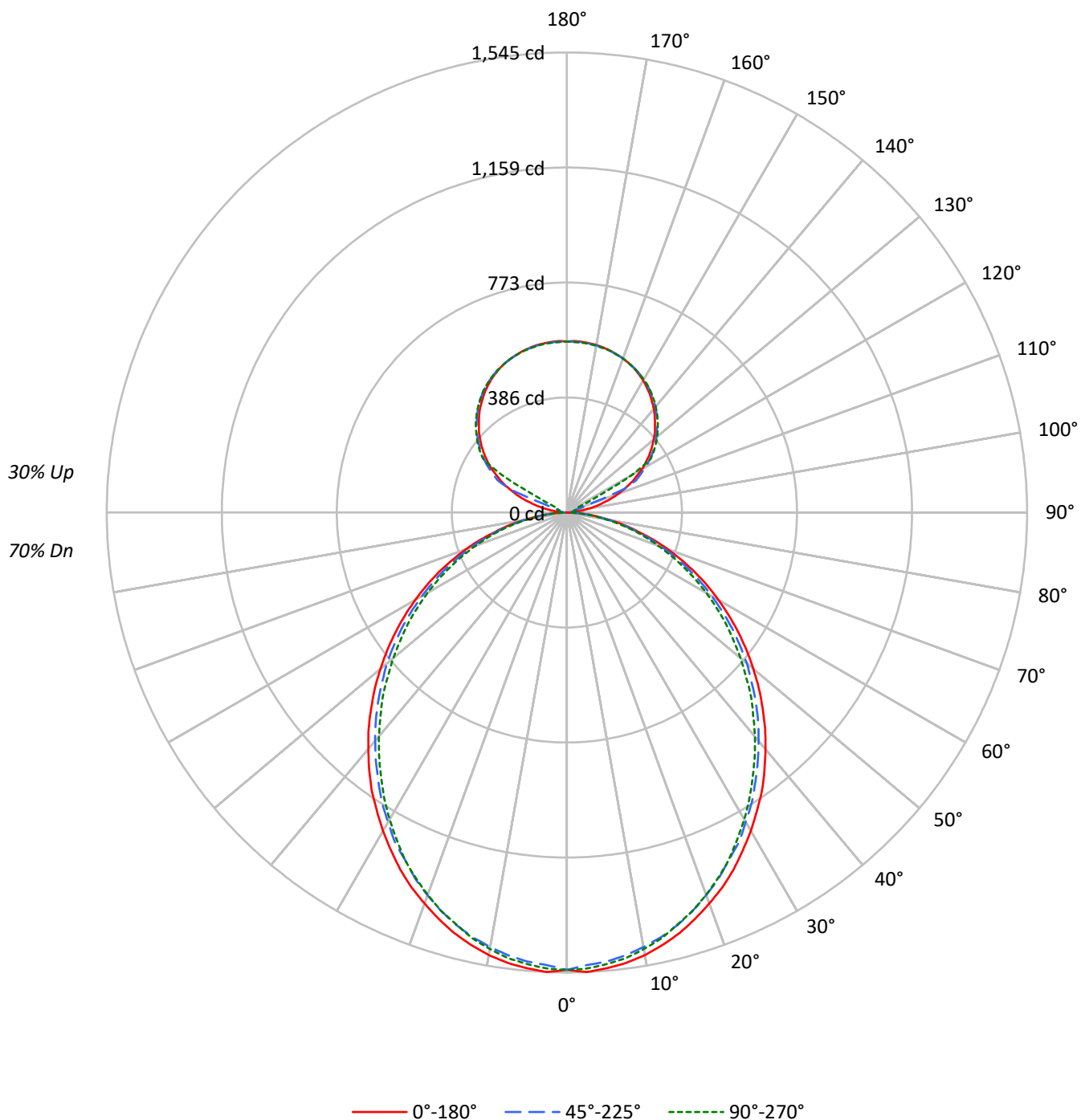
Lumens per Lamp: N/A
Luminaire Lumens: 5593.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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

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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
RCR																	
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63
2	93	85	79	74	88	81	75	71	73	68	64	65	62	59	58	55	53
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	51	48	45
4	78	67	58	52	73	63	56	50	57	51	46	51	46	43	46	42	39
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	33	30
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27
8	57	44	36	31	54	42	35	30	38	32	28	35	30	26	32	27	24
9	53	40	33	27	50	39	31	27	35	29	25	32	27	23	29	25	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24315	24315	24315
5°	24355	23176	23013
10°	24156	22120	21681
15°	23803	21057	20282
20°	23324	19899	18956
25°	22848	18690	17633
30°	22249	17554	16243
35°	21683	16355	14879
40°	20984	15172	13589
45°	20289	13999	12325
50°	19533	12805	11011
55°	18732	11530	9770
60°	17837	10148	8477
65°	16854	8743	7118
70°	15608	7206	5748
75°	13879	5555	4439
80°	11792	3776	2857
85°	8560	1756	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20289 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	2.6
10°-20°	406.8	7.3
20°-30°	597.8	10.7
30°-40°	694.3	12.4
40°-50°	693.4	12.4
50°-60°	604.6	10.8
60°-70°	446.9	8.0
70°-80°	252.9	4.5
80°-90°	67.7	1.2
90°-100°	18.9	0.3
100°-110°	70.6	1.3
110°-120°	187.3	3.3
120°-130°	310.6	5.6
130°-140°	329.9	5.9
140°-150°	306.6	5.5
150°-160°	246.5	4.4
160°-170°	158.8	2.8
170°-180°	54.7	1.0
0°-30°	1149.1	20.5
0°-40°	1843.4	33.0
0°-60°	3141.4	56.2
0°-90°	3909.0	69.9
90°-120°	276.8	4.9
90°-150°	1224.0	21.9
90°-180°	1684.0	30.1
0°-180°	5593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1536	1530	1514	1526	1523	146
15°	1462	1453	1434	1440	1433	412
25°	1323	1312	1286	1289	1286	609
35°	1142	1127	1103	1094	1087	713
45°	929	919	896	880	874	717
55°	703	694	676	659	651	629
65°	474	465	450	437	430	469
75°	248	245	238	229	232	265
85°	61	59	58	53	52	67
90°	0	5	8	10	11	5
95°	27	13	16	18	18	32
105°	126	139	25	30	32	135
115°	239	246	256	64	34	235
125°	338	343	351	354	355	301
135°	418	425	428	433	432	323
145°	485	485	492	495	492	303
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.1	1536.1	1536.1	1536.1	1536.1
2.5°	1544.9	1537.5	1521.3	1536.1	1533.1
5°	1536.1	1530.2	1513.9	1525.7	1522.8
7.5°	1525.7	1516.9	1500.6	1512.4	1509.5
10°	1509.5	1499.1	1481.4	1493.2	1488.8
12.5°	1487.3	1478.5	1460.7	1468.1	1465.2
15°	1462.2	1453.4	1434.2	1440.1	1432.7
17.5°	1431.2	1422.3	1403.1	1410.5	1403.1
20°	1397.2	1388.4	1367.7	1372.1	1366.2
22.5°	1363.3	1350.0	1330.8	1330.8	1327.8
25°	1323.4	1311.6	1286.5	1289.4	1286.5
27.5°	1279.1	1268.7	1249.5	1245.1	1237.7
30°	1234.8	1222.9	1200.8	1196.4	1190.5
32.5°	1187.5	1178.6	1155.0	1146.1	1140.2
35°	1141.7	1126.9	1103.3	1094.4	1087.1
37.5°	1090.0	1076.7	1053.1	1042.8	1035.4
40°	1036.8	1025.0	1001.4	988.1	982.2
42.5°	985.2	973.3	949.7	934.9	926.1
45°	929.0	918.7	896.5	880.3	874.4
47.5°	874.4	864.0	840.4	824.2	815.3
50°	816.8	809.4	788.7	768.0	760.6
52.5°	760.6	750.3	731.1	714.9	704.5
55°	703.0	694.2	676.5	658.7	651.4
57.5°	645.4	638.1	618.9	601.1	595.2
60°	587.8	581.9	561.3	545.0	540.6
62.5°	531.7	521.4	506.6	491.8	485.9
65°	474.1	465.3	450.5	437.2	429.8
67.5°	415.0	407.6	394.4	384.0	378.1
70°	360.4	354.5	341.2	330.8	324.9
72.5°	304.3	298.4	291.0	280.6	276.2
75°	248.1	245.2	237.8	228.9	231.9
77.5°	197.9	192.0	189.1	184.6	180.2
80°	147.7	146.2	143.3	138.8	135.9
82.5°	100.4	100.4	99.0	93.1	93.1
85°	60.6	59.1	57.6	53.2	51.7
87.5°	26.6	23.6	20.7	16.2	14.8
90°	0.4	5.0	8.3	10.4	11.2
92.5°	10.4	8.7	10.0	10.8	11.2
95°	27.0	13.3	16.2	18.3	17.9
97.5°	48.6	14.5	21.2	22.4	22.9
100°	73.6	16.6	23.7	27.0	27.8
102.5°	101.0	100.2	24.5	29.1	30.3
105°	126.4	138.8	25.4	29.9	31.6
107.5°	155.9	166.3	26.2	30.8	32.4
110°	184.1	192.9	72.7	31.2	32.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	210.7	218.2	211.1	32.0	33.3
115°	239.0	246.1	256.5	64.0	34.1
117.5°	263.5	271.8	278.9	219.5	110.6
120°	290.9	297.2	304.7	309.7	253.5
122.5°	314.2	320.9	329.2	331.7	332.1
125°	337.9	343.3	351.2	354.1	355.4
127.5°	359.5	365.3	371.6	375.7	376.2
130°	379.9	386.5	391.1	395.7	395.3
132.5°	400.7	406.1	410.7	414.4	414.0
135°	418.1	424.8	428.5	432.7	431.9
137.5°	436.4	441.4	445.6	449.7	448.5
140°	454.3	457.6	462.2	465.9	463.9
142.5°	469.3	472.2	477.6	480.9	478.8
145°	485.1	484.6	491.7	494.6	492.5
147.5°	498.8	497.5	504.6	506.7	505.0
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)