

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: P1029238

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029238
REPORT IS A COMBINATION OF REPORTS P985241 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-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

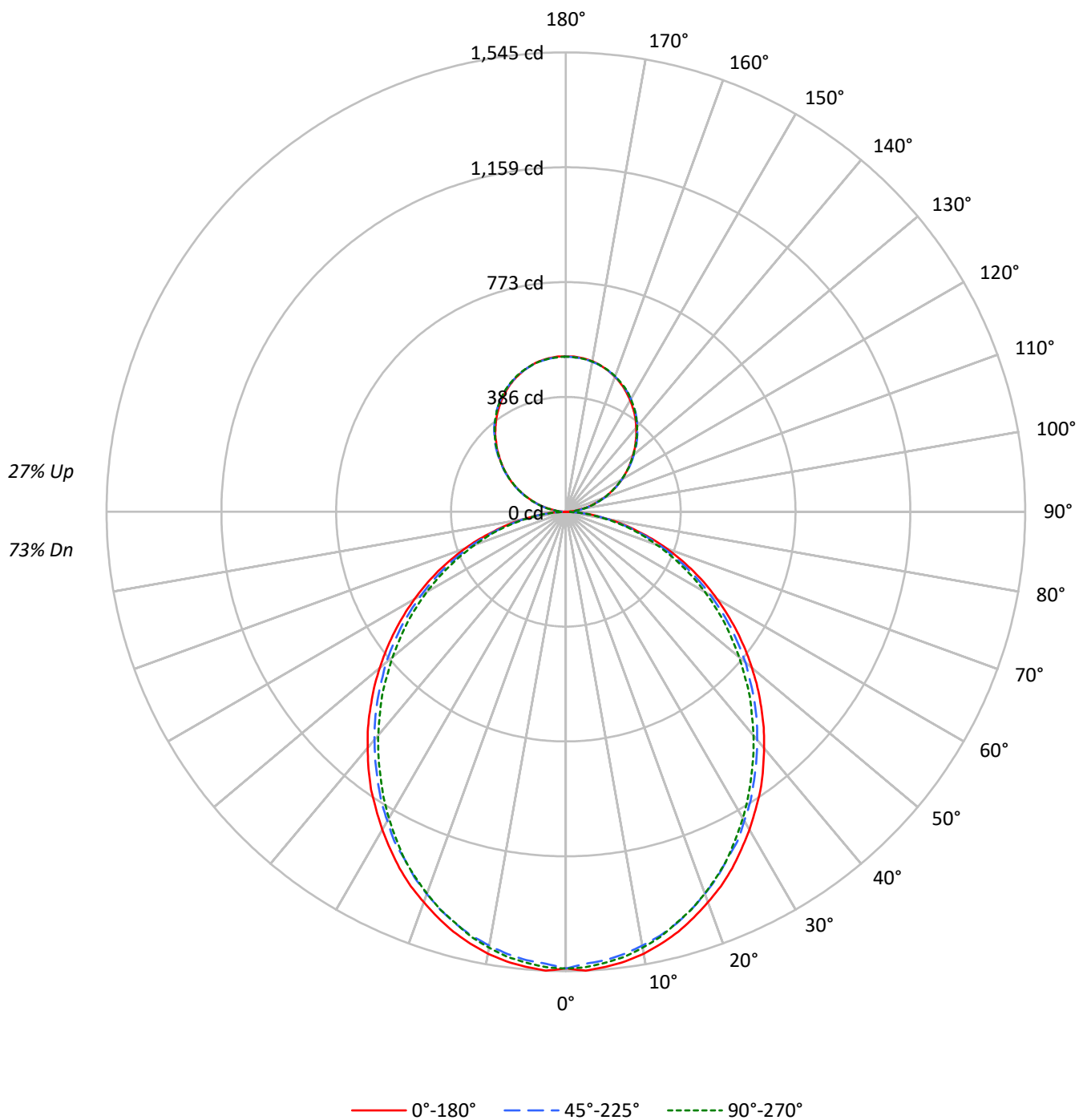
Lumens per Lamp: N/A
Luminaire Lumens: 5369.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	77	77	73
1	103	98	94	91	97	94	90	87	84	82	79	76	74	72	68	67	65	65	65	61
2	94	86	80	74	89	82	76	71	74	69	66	67	63	60	60	57	55	55	55	51
3	86	76	68	62	81	72	65	60	65	60	55	59	55	51	53	50	47	47	47	44
4	78	67	59	53	74	64	57	51	58	52	47	53	48	44	48	44	40	40	40	37
5	72	60	51	45	68	57	50	44	52	46	41	47	42	38	43	39	35	35	35	32
6	67	54	45	39	63	52	44	38	47	41	36	43	38	33	39	35	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	25
8	57	44	36	31	54	43	35	30	39	33	28	36	30	27	33	28	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22	22	22	20
10	50	38	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	19

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	2.7
10°-20°	406.8	7.6
20°-30°	597.8	11.1
30°-40°	694.3	12.9
40°-50°	693.4	12.9
50°-60°	604.6	11.3
60°-70°	446.9	8.3
70°-80°	252.9	4.7
80°-90°	68.2	1.3
90°-100°	32.3	0.6
100°-110°	102.7	1.9
110°-120°	175.7	3.3
120°-130°	231.0	4.3
130°-140°	259.3	4.8
140°-150°	254.3	4.7
150°-160°	213.3	4.0
160°-170°	141.5	2.6
170°-180°	49.4	0.9
0°-30°	1149.1	21.4
0°-40°	1843.4	34.3
0°-60°	3141.4	58.5
0°-90°	3909.5	72.8
90°-120°	310.6	5.8
90°-150°	1055.3	19.7
90°-180°	1460.0	27.2
0°-180°	5369.0	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	6	15	14	15	5
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	

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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	5.7	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



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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)