

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: P1029235

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-F1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029235
REPORT IS A COMBINATION OF REPORTS P985238 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_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

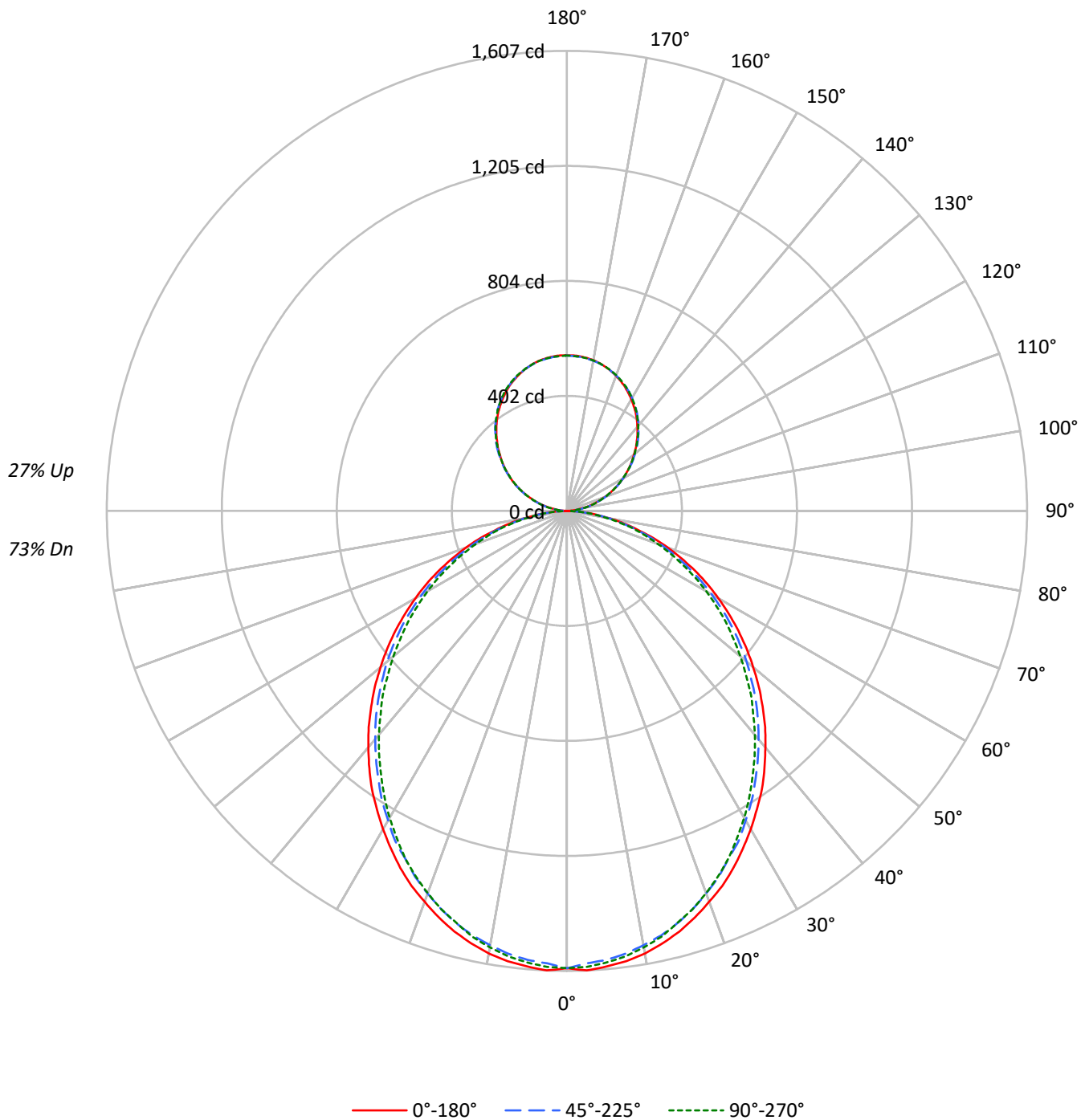
Lumens per Lamp: N/A
Luminaire Lumens: 5583.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25286	25286	25286
5°	25327	24101	23931
10°	25120	23004	22546
15°	24753	21896	21092
20°	24255	20693	19713
25°	23759	19436	18336
30°	23137	18254	16892
35°	22549	17008	15473
40°	21822	15778	14131
45°	21100	14558	12816
50°	20312	13317	11451
55°	19481	11990	10160
60°	18550	10553	8816
65°	17526	9093	7403
70°	16232	7493	5978
75°	14433	5777	4615
80°	12263	3926	2971
85°	8899	1826	1265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	2.7
10°-20°	423.0	7.6
20°-30°	621.6	11.1
30°-40°	722.0	12.9
40°-50°	721.1	12.9
50°-60°	628.8	11.3
60°-70°	464.8	8.3
70°-80°	263.0	4.7
80°-90°	70.9	1.3
90°-100°	33.6	0.6
100°-110°	106.7	1.9
110°-120°	182.6	3.3
120°-130°	240.2	4.3
130°-140°	269.6	4.8
140°-150°	264.4	4.7
150°-160°	221.8	4.0
160°-170°	147.1	2.6
170°-180°	51.4	0.9
0°-30°	1195.0	21.4
0°-40°	1917.0	34.3
0°-60°	3266.8	58.5
0°-90°	4065.6	72.8
90°-120°	322.9	5.8
90°-150°	1097.1	19.7
90°-180°	1517.0	27.2
0°-180°	5583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1597	1591	1574	1587	1584	152
15°	1521	1511	1491	1498	1490	428
25°	1376	1364	1338	1341	1338	633
35°	1187	1172	1147	1138	1130	741
45°	966	955	932	915	909	746
55°	731	722	704	685	677	654
65°	493	484	468	455	447	487
75°	258	255	247	238	241	275
85°	63	61	60	55	54	70
90°	0	6	16	15	16	5
95°	24	28	29	29	28	27
105°	98	100	101	102	102	104
115°	183	186	185	185	183	181
125°	267	271	269	268	268	238
135°	345	350	351	350	349	267
145°	419	422	425	425	423	262
155°	479	480	481	484	482	220
165°	521	520	520	524	521	147
175°	542	540	540	543	540	51
180°	543	543	543	543	543	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.4	1597.4	1597.4	1597.4	1597.4
2.5°	1606.6	1598.9	1582.0	1597.4	1594.3
5°	1597.4	1591.2	1574.3	1586.6	1583.6
7.5°	1586.6	1577.4	1560.5	1572.8	1569.7
10°	1569.7	1559.0	1540.6	1552.8	1548.2
12.5°	1546.7	1537.5	1519.1	1526.7	1523.7
15°	1520.6	1511.4	1491.4	1497.5	1489.9
17.5°	1488.3	1479.1	1459.1	1466.8	1459.1
20°	1453.0	1443.8	1422.3	1426.9	1420.8
22.5°	1417.7	1403.9	1383.9	1383.9	1380.8
25°	1376.2	1363.9	1337.8	1340.9	1337.8
27.5°	1330.1	1319.4	1299.4	1294.8	1287.1
30°	1284.1	1271.8	1248.7	1244.1	1238.0
32.5°	1234.9	1225.7	1201.1	1191.9	1185.8
35°	1187.3	1171.9	1147.4	1138.1	1130.5
37.5°	1133.5	1119.7	1095.1	1084.4	1076.7
40°	1078.2	1065.9	1041.4	1027.5	1021.4
42.5°	1024.5	1012.2	987.6	972.3	963.0
45°	966.1	955.4	932.3	915.4	909.3
47.5°	909.3	898.5	874.0	857.1	847.8
50°	849.4	841.7	820.2	798.7	791.0
52.5°	791.0	780.3	760.3	743.4	732.6
55°	731.1	721.9	703.5	685.0	677.4
57.5°	671.2	663.5	643.6	625.1	619.0
60°	611.3	605.2	583.7	566.8	562.2
62.5°	552.9	542.2	526.8	511.5	505.3
65°	493.0	483.8	468.5	454.6	447.0
67.5°	431.6	423.9	410.1	399.3	393.2
70°	374.8	368.6	354.8	344.1	337.9
72.5°	316.4	310.3	302.6	291.8	287.2
75°	258.0	255.0	247.3	238.1	241.1
77.5°	205.8	199.7	196.6	192.0	187.4
80°	153.6	152.1	149.0	144.4	141.3
82.5°	104.4	104.4	102.9	96.8	96.8
85°	63.0	61.4	59.9	55.3	53.8
87.5°	27.6	24.6	21.5	16.9	15.4
90°	0.5	6.0	16.0	15.1	15.6
92.5°	10.1	13.7	14.2	14.7	14.7
95°	23.8	28.4	29.3	29.3	28.4
97.5°	39.8	44.0	45.8	45.8	45.8
100°	58.2	61.8	63.2	63.2	62.7
102.5°	77.4	80.2	82.0	82.4	82.0
105°	98.5	99.8	100.8	101.7	101.7
107.5°	119.5	121.4	121.4	121.8	119.5
110°	139.7	142.4	142.4	142.4	141.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.7	164.4	164.0	162.6	161.7
115°	183.2	186.0	185.0	184.6	183.2
117.5°	204.7	208.4	206.1	204.7	203.4
120°	226.3	229.9	226.3	226.3	224.9
122.5°	246.0	250.5	248.2	246.9	246.0
125°	266.6	270.7	269.3	267.9	267.5
127.5°	286.7	291.8	289.9	288.1	286.7
130°	305.5	311.5	310.5	309.6	307.8
132.5°	326.6	331.2	331.6	329.3	327.9
135°	344.9	349.9	350.8	350.4	349.0
137.5°	365.0	369.2	370.1	369.6	367.8
140°	382.9	387.0	389.3	389.3	387.5
142.5°	401.2	405.4	406.7	407.2	405.4
145°	418.6	421.8	424.6	425.0	423.2
147.5°	434.2	438.3	440.2	441.1	439.2
150°	450.2	453.0	454.8	456.2	454.8
152.5°	464.4	467.2	469.5	471.3	469.5
155°	478.6	480.0	481.4	483.7	482.3
157.5°	491.0	491.9	492.8	496.0	493.8
160°	502.0	502.9	503.4	506.1	504.3
162.5°	512.1	512.1	512.5	515.7	513.4
165°	520.8	520.3	520.3	523.5	521.2
167.5°	528.6	527.2	527.2	530.4	528.1
170°	534.5	533.1	532.7	535.9	533.1
172.5°	538.6	537.3	536.8	540.0	537.3
175°	541.8	540.5	539.6	542.8	540.0
177.5°	543.7	542.3	541.4	544.1	541.4
180°	542.8	542.8	542.8	542.8	542.8

(END OF REPORT)