

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: P1029270

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029270
REPORT IS A COMBINATION OF REPORTS P985338 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D710UB2750-4F0-XX-W2A-F_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

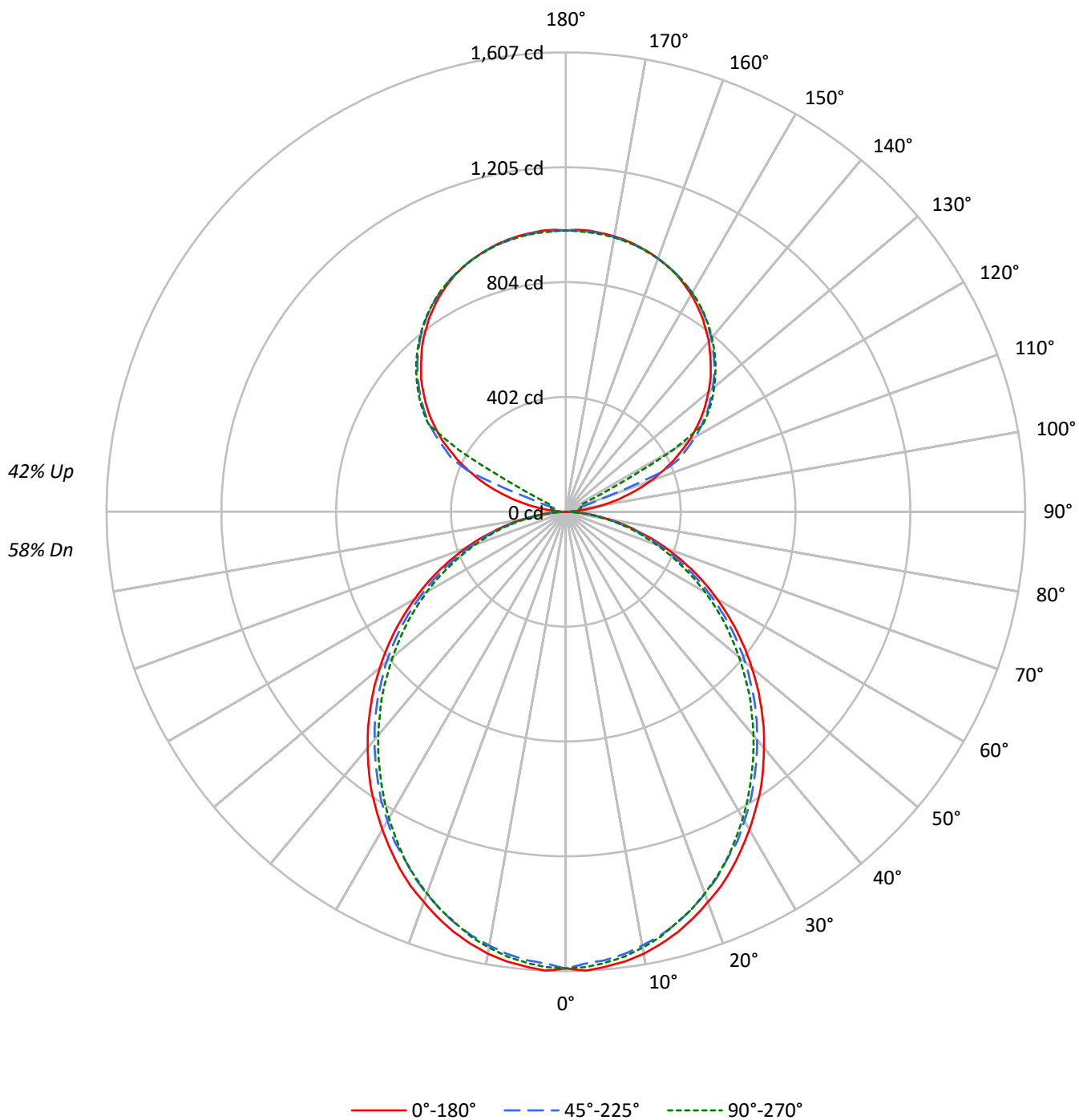
Lumens per Lamp: N/A
Luminaire Lumens: 6951.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 84.5
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	100	95	91	88	93	89	86	83	77	75	72	66	65	63	57	55	54
2	91	83	77	72	84	78	72	68	68	64	60	58	55	53	50	48	46
3	83	73	66	60	77	69	62	57	60	55	50	52	48	45	44	41	39
4	76	65	57	51	70	61	54	48	53	48	43	46	42	38	39	36	33
5	70	58	50	43	65	54	47	41	48	42	37	41	37	33	36	32	29
6	64	52	44	38	60	49	41	36	43	37	33	37	33	29	32	29	26
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23
8	55	43	35	29	51	40	33	28	36	30	26	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	19
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17

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	2.2
10°-20°	423.0	6.1
20°-30°	621.6	8.9
30°-40°	722.0	10.4
40°-50°	721.1	10.4
50°-60°	628.8	9.0
60°-70°	464.8	6.7
70°-80°	263.0	3.8
80°-90°	71.1	1.0
90°-100°	32.5	0.5
100°-110°	121.0	1.7
110°-120°	320.9	4.6
120°-130°	532.2	7.7
130°-140°	565.3	8.1
140°-150°	525.4	7.6
150°-160°	422.4	6.1
160°-170°	272.2	3.9
170°-180°	93.7	1.3
0°-30°	1195.0	17.2
0°-40°	1917.0	27.6
0°-60°	3266.8	47.0
0°-90°	4065.7	58.5
90°-120°	474.3	6.8
90°-150°	2097.1	30.2
90°-180°	2885.0	41.5
0°-180°	6951.0	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°	1	8	14	18	19	6
95°	46	23	28	31	31	55
105°	216	238	43	51	54	231
115°	410	422	439	110	58	403
125°	579	588	602	607	609	516
135°	716	728	734	741	740	553
145°	831	830	842	847	844	520
155°	915	909	917	922	916	422
165°	964	960	962	967	962	272
175°	986	981	983	988	981	94
180°	984	984	984	984	984	

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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°	0.7	8.5	14.2	17.8	19.2
92.5°	17.8	15.0	17.1	18.5	19.2
95°	46.3	22.8	27.8	31.3	30.6
97.5°	83.3	24.9	36.3	38.5	39.2
100°	126.0	28.5	40.6	46.3	47.7
102.5°	173.1	171.6	42.0	49.8	52.0
105°	216.5	237.9	43.4	51.3	54.1
107.5°	267.1	284.9	44.9	52.7	55.5
110°	315.5	330.4	124.6	53.4	56.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	361.1	373.9	361.8	54.8	57.0
115°	409.5	421.6	439.4	109.7	58.4
117.5°	451.5	465.7	477.8	376.0	189.4
120°	498.5	509.2	522.0	530.5	434.4
122.5°	538.4	549.8	564.0	568.3	569.0
125°	579.0	588.2	601.8	606.7	608.9
127.5°	616.0	626.0	636.7	643.8	644.5
130°	650.9	662.3	670.1	678.0	677.2
132.5°	686.5	695.8	703.6	710.0	709.3
135°	716.4	727.8	734.2	741.3	739.9
137.5°	747.7	756.3	763.4	770.5	768.4
140°	778.4	784.1	791.9	798.3	794.7
142.5°	804.0	809.0	818.3	823.9	820.4
145°	831.1	830.4	842.5	847.4	843.9
147.5°	854.6	852.4	864.5	868.1	865.3
150°	877.4	872.4	883.8	888.0	884.5
152.5°	896.6	890.9	901.6	905.8	900.9
155°	915.1	908.7	917.2	921.5	915.8
157.5°	930.1	924.4	930.8	935.8	930.1
160°	942.9	938.6	942.9	947.1	942.2
162.5°	954.3	950.0	953.6	958.5	952.1
165°	964.2	960.0	962.1	967.1	962.1
167.5°	972.1	967.8	969.9	974.9	968.5
170°	978.5	974.2	975.6	980.6	974.2
172.5°	982.8	978.5	979.9	984.9	978.5
175°	986.3	981.3	982.8	987.7	980.6
177.5°	987.7	982.8	983.5	988.5	982.0
180°	984.2	984.2	984.2	984.2	984.2

(END OF REPORT)