

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: P1029272

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029272
REPORT IS A COMBINATION OF REPORTS P985340 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_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

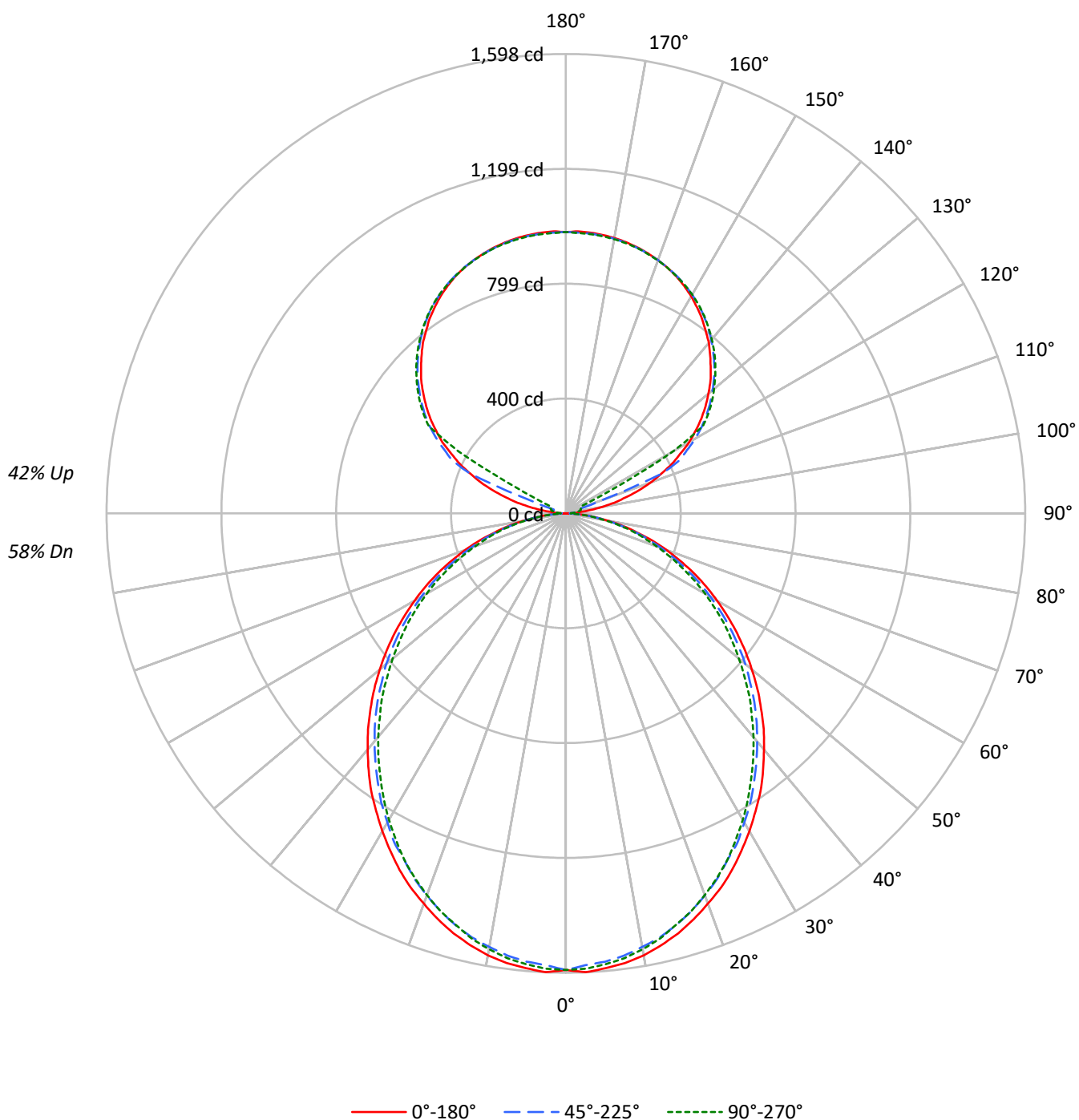
Lumens per Lamp: N/A
Luminaire Lumens: 6911.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	25142	25142	25142
5°	25183	23965	23795
10°	24979	22873	22420
15°	24613	21773	20971
20°	24118	20575	19601
25°	23625	19325	18232
30°	23005	18152	16796
35°	22421	16912	15385
40°	21698	15689	14051
45°	20979	14475	12743
50°	20197	13242	11386
55°	19372	11922	10101
60°	18443	10493	8766
65°	17426	9040	7360
70°	16136	7451	5944
75°	14354	5744	4590
80°	12191	3903	2954
85°	8843	1817	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20979 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.2
10°-20°	420.6	6.1
20°-30°	618.1	8.9
30°-40°	717.9	10.4
40°-50°	717.0	10.4
50°-60°	625.2	9.0
60°-70°	462.2	6.7
70°-80°	261.5	3.8
80°-90°	70.7	1.0
90°-100°	32.3	0.5
100°-110°	120.3	1.7
110°-120°	319.0	4.6
120°-130°	529.0	7.7
130°-140°	561.9	8.1
140°-150°	522.3	7.6
150°-160°	419.9	6.1
160°-170°	270.6	3.9
170°-180°	93.1	1.3
0°-30°	1188.2	17.2
0°-40°	1906.1	27.6
0°-60°	3248.3	47.0
0°-90°	4042.7	58.5
90°-120°	471.5	6.8
90°-150°	2084.7	30.2
90°-180°	2868.0	41.5
0°-180°	6911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1588	1582	1565	1578	1575	151
15°	1512	1503	1483	1489	1481	426
25°	1368	1356	1330	1333	1330	630
35°	1181	1165	1141	1132	1124	737
45°	961	950	927	910	904	741
55°	727	718	700	681	674	650
65°	490	481	466	452	444	485
75°	257	254	246	237	240	274
85°	63	61	60	55	54	70
90°	1	8	14	18	19	6
95°	46	23	28	31	30	54
105°	215	236	43	51	54	230
115°	407	419	437	109	58	401
125°	576	585	598	603	605	513
135°	712	724	730	737	736	550
145°	826	826	838	842	839	517
155°	910	903	912	916	910	419
165°	959	954	956	961	956	271
175°	980	976	977	982	975	93
180°	978	978	978	978	978	

TEST NUMBER: P1029272

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.3	1588.3	1588.3	1588.3	1588.3
2.5°	1597.5	1589.9	1573.1	1588.3	1585.3
5°	1588.3	1582.2	1565.4	1577.7	1574.6
7.5°	1577.7	1568.5	1551.7	1563.9	1560.9
10°	1560.9	1550.2	1531.8	1544.1	1539.5
12.5°	1537.9	1528.8	1510.5	1518.1	1515.0
15°	1512.0	1502.8	1483.0	1489.1	1481.4
17.5°	1479.9	1470.7	1450.9	1458.5	1450.9
20°	1444.8	1435.6	1414.2	1418.8	1412.7
22.5°	1409.7	1395.9	1376.1	1376.1	1373.0
25°	1368.4	1356.2	1330.2	1333.3	1330.2
27.5°	1322.6	1311.9	1292.1	1287.5	1279.8
30°	1276.8	1264.6	1241.7	1237.1	1231.0
32.5°	1227.9	1218.7	1194.3	1185.1	1179.0
35°	1180.6	1165.3	1140.9	1131.7	1124.1
37.5°	1127.1	1113.4	1088.9	1078.2	1070.6
40°	1072.1	1059.9	1035.5	1021.7	1015.6
42.5°	1018.7	1006.5	982.0	966.8	957.6
45°	960.6	950.0	927.0	910.2	904.1
47.5°	904.1	893.4	869.0	852.2	843.0
50°	844.6	836.9	815.6	794.2	786.5
52.5°	786.5	775.8	756.0	739.2	728.5
55°	727.0	717.8	699.5	681.2	673.5
57.5°	667.4	659.8	639.9	621.6	615.5
60°	607.8	601.7	580.4	563.6	559.0
62.5°	549.8	539.1	523.8	508.6	502.5
65°	490.2	481.1	465.8	452.1	444.4
67.5°	429.2	421.5	407.8	397.1	391.0
70°	372.6	366.5	352.8	342.1	336.0
72.5°	314.6	308.5	300.9	290.2	285.6
75°	256.6	253.5	245.9	236.7	239.8
77.5°	204.7	198.5	195.5	190.9	186.3
80°	152.7	151.2	148.1	143.6	140.5
82.5°	103.9	103.9	102.3	96.2	96.2
85°	62.6	61.1	59.6	55.0	53.5
87.5°	27.5	24.4	21.4	16.8	15.3
90°	0.7	8.5	14.2	17.7	19.1
92.5°	17.7	14.9	17.0	18.4	19.1
95°	46.0	22.7	27.6	31.1	30.4
97.5°	82.8	24.8	36.1	38.2	38.9
100°	125.3	28.3	40.4	46.0	47.4
102.5°	172.0	170.6	41.8	49.6	51.7
105°	215.2	236.5	43.2	51.0	53.8
107.5°	265.5	283.2	44.6	52.4	55.2
110°	313.6	328.5	123.9	53.1	55.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	358.9	371.7	359.6	54.5	56.6
115°	407.1	419.1	436.8	109.0	58.1
117.5°	448.8	463.0	475.0	373.8	188.3
120°	495.6	506.2	518.9	527.4	431.8
122.5°	535.2	546.5	560.7	564.9	565.7
125°	575.6	584.8	598.2	603.2	605.3
127.5°	612.4	622.3	632.9	640.0	640.7
130°	647.1	658.4	666.2	674.0	673.3
132.5°	682.5	691.7	699.5	705.8	705.1
135°	712.2	723.5	729.9	737.0	735.6
137.5°	743.3	751.8	758.9	766.0	763.9
140°	773.8	779.5	787.2	793.6	790.1
142.5°	799.3	804.2	813.4	819.1	815.6
145°	826.2	825.5	837.5	842.5	838.9
147.5°	849.5	847.4	859.4	863.0	860.2
150°	872.2	867.2	878.6	882.8	879.3
152.5°	891.3	885.6	896.3	900.5	895.6
155°	909.7	903.3	911.8	916.1	910.4
157.5°	924.6	918.9	925.3	930.2	924.6
160°	937.3	933.1	937.3	941.6	936.6
162.5°	948.7	944.4	947.9	952.9	946.5
165°	958.6	954.3	956.4	961.4	956.4
167.5°	966.3	962.1	964.2	969.2	962.8
170°	972.7	968.5	969.9	974.8	968.5
172.5°	977.0	972.7	974.1	979.1	972.7
175°	980.5	975.6	977.0	981.9	974.8
177.5°	981.9	977.0	977.7	982.6	976.3
180°	978.4	978.4	978.4	978.4	978.4

(END OF REPORT)