

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: P1029260

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029260
REPORT IS A COMBINATION OF REPORTS P985323 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-D_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

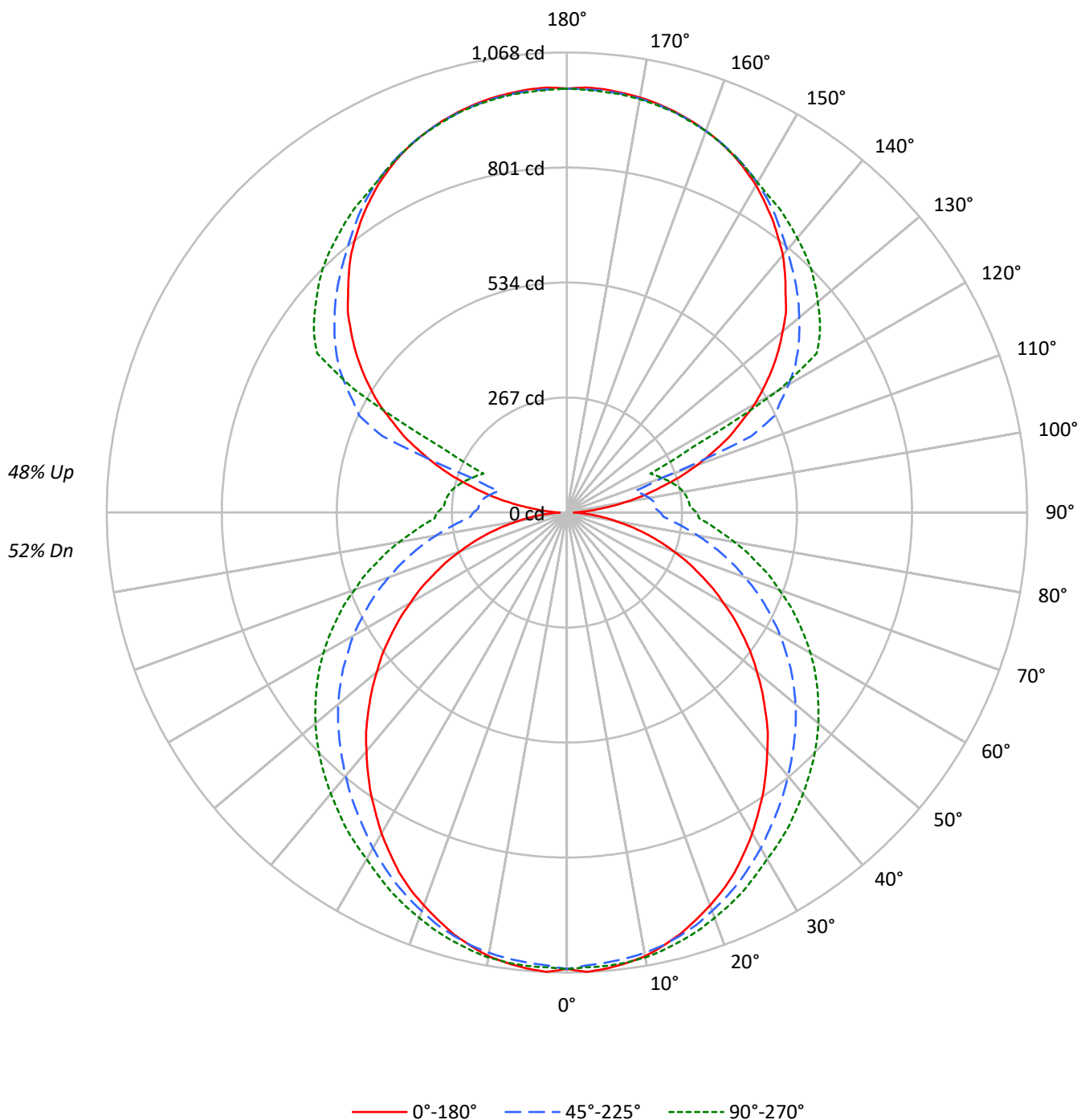
Lumens per Lamp: N/A
Luminaire Lumens: 6931.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	108	108	108	108	99	99	99	99	84	84	84	71	71	71	58	58	58	58	58	58
1	97	92	87	83	89	85	81	77	72	69	66	60	58	56	49	47	46	46	46	40
2	87	79	72	67	80	73	67	62	62	57	53	52	48	45	42	39	37	37	37	33
3	79	69	61	55	73	64	57	51	54	49	44	45	41	38	37	34	31	31	31	27
4	72	61	52	46	66	56	49	43	48	42	37	40	35	32	32	29	26	26	26	23
5	66	54	45	39	61	50	42	37	43	36	32	36	31	27	29	26	23	23	23	19
6	61	48	40	34	56	45	37	32	38	32	28	32	27	24	26	23	20	20	20	17
7	56	43	35	29	52	40	33	28	35	29	24	29	24	21	24	20	17	17	17	15
8	52	39	31	26	48	37	29	24	31	26	21	27	22	18	22	18	16	16	16	13
9	49	36	28	23	45	33	26	22	29	23	19	24	20	16	20	17	14	14	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	19	15	13	13	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16776	16776	16776
5°	16852	16061	15970
10°	16739	15504	15278
15°	16503	14928	14568
20°	16206	14325	13895
25°	15911	13746	13284
30°	15499	13158	12680
35°	15081	12591	12236
40°	14643	12101	11794
45°	14224	11657	11410
50°	13774	11247	11030
55°	13302	10812	10643
60°	12723	10358	10237
65°	12122	9838	9768
70°	11442	9278	9266
75°	10567	8720	8791
80°	9197	8135	8300
85°	7811	7586	7873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14224 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.4
10°-20°	288.2	4.2
20°-30°	436.6	6.3
30°-40°	531.7	7.7
40°-50°	572.0	8.3
50°-60°	555.5	8.0
60°-70°	485.2	7.0
70°-80°	373.4	5.4
80°-90°	251.8	3.6
90°-100°	205.0	3.0
100°-110°	247.0	3.6
110°-120°	404.0	5.8
120°-130°	578.5	8.3
130°-140°	584.7	8.4
140°-150°	528.6	7.6
150°-160°	422.4	6.1
160°-170°	272.2	3.9
170°-180°	93.7	1.4
0°-30°	825.2	11.9
0°-40°	1356.9	19.6
0°-60°	2484.5	35.8
0°-90°	3594.9	51.9
90°-120°	856.0	12.4
90°-150°	2547.9	36.8
90°-180°	3336.0	48.1
0°-180°	6931.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1058	1049	1058	1057	101
15°	1014	1017	1017	1031	1029	286
25°	922	932	946	965	969	424
35°	794	820	849	883	894	496
45°	651	693	746	794	810	503
55°	499	554	634	690	710	447
65°	341	416	507	570	590	339
75°	189	275	373	439	459	200
85°	55	150	249	313	335	58
90°	16	113	217	282	302	13
95°	59	107	204	266	284	64
105°	224	290	176	237	257	240
115°	416	445	532	248	214	409
125°	582	591	654	700	716	520
135°	718	729	751	790	801	555
145°	831	830	842	857	861	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°	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1067.5	1062.9	1052.2	1059.8	1056.8
5°	1062.9	1058.3	1049.1	1058.3	1056.8
7.5°	1055.2	1052.2	1044.5	1055.2	1053.7
10°	1046.0	1042.9	1038.3	1050.6	1049.1
12.5°	1030.7	1032.2	1029.1	1041.4	1039.9
15°	1013.8	1016.8	1016.8	1030.7	1029.1
17.5°	992.3	998.4	1003.0	1016.8	1016.8
20°	970.8	978.4	984.6	1001.5	1001.5
22.5°	947.7	956.9	966.1	983.0	986.1
25°	921.6	932.4	946.2	964.6	969.2
27.5°	890.9	907.8	923.1	946.2	949.3
30°	860.2	880.1	900.1	924.7	929.3
32.5°	826.4	849.4	874.0	903.2	912.4
35°	794.1	820.2	849.4	883.2	894.0
37.5°	758.8	788.0	824.8	861.7	872.5
40°	723.5	757.3	798.7	838.7	852.5
42.5°	689.7	723.5	772.6	817.2	831.0
45°	651.3	692.7	746.5	794.1	809.5
47.5°	614.4	658.9	720.4	769.5	786.4
50°	576.0	623.6	692.7	745.0	761.9
52.5°	539.1	589.8	663.6	717.3	735.7
55°	499.2	554.5	634.4	689.7	709.6
57.5°	460.8	522.2	602.1	662.0	682.0
60°	419.3	485.4	572.9	631.3	652.8
62.5°	382.5	451.6	539.1	602.1	622.1
65°	341.0	416.3	506.9	569.9	589.8
67.5°	304.1	382.5	474.6	537.6	559.1
70°	264.2	344.1	439.3	505.3	523.8
72.5°	227.3	310.3	407.0	471.6	494.6
75°	188.9	274.9	373.3	439.3	459.3
77.5°	152.1	241.2	341.0	407.0	428.5
80°	115.2	208.9	308.7	373.3	394.8
82.5°	84.5	176.6	278.0	342.5	362.5
85°	55.3	150.5	248.8	313.3	334.8
87.5°	33.8	126.0	224.3	287.2	307.2
90°	16.1	112.9	217.0	282.0	301.8
92.5°	31.6	110.2	206.0	267.3	286.5
95°	58.6	107.3	204.4	266.3	284.0
97.5°	94.1	101.7	202.2	261.2	280.4
100°	136.8	96.1	194.2	256.7	275.0
102.5°	182.3	231.5	184.8	247.9	267.0
105°	224.2	290.1	175.5	237.2	256.9
107.5°	274.8	329.4	166.2	226.3	246.0
110°	321.6	367.3	236.7	214.7	234.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	367.2	404.6	463.2	205.3	224.4
115°	415.6	444.6	531.6	247.9	213.5
117.5°	456.1	482.6	559.2	503.5	332.2
120°	503.1	520.0	594.2	645.7	566.5
122.5°	543.0	555.9	627.0	672.7	687.3
125°	582.1	591.3	654.0	700.4	716.4
127.5°	619.1	627.5	679.7	725.2	739.7
130°	654.0	663.8	703.9	748.7	760.1
132.5°	689.6	697.3	728.2	769.9	781.5
135°	717.9	729.3	751.1	790.5	801.3
137.5°	749.2	757.8	772.6	808.9	817.6
140°	779.9	784.1	795.0	825.9	831.6
142.5°	805.5	809.0	818.3	842.3	846.5
145°	831.1	830.4	842.5	856.6	860.8
147.5°	854.6	852.4	864.5	869.6	871.4
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)