

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: P1008645

Luminaire Tested: S122DIP-B1005D530UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008645
REPORT IS A COMBINATION OF REPORTS P983667 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D530UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

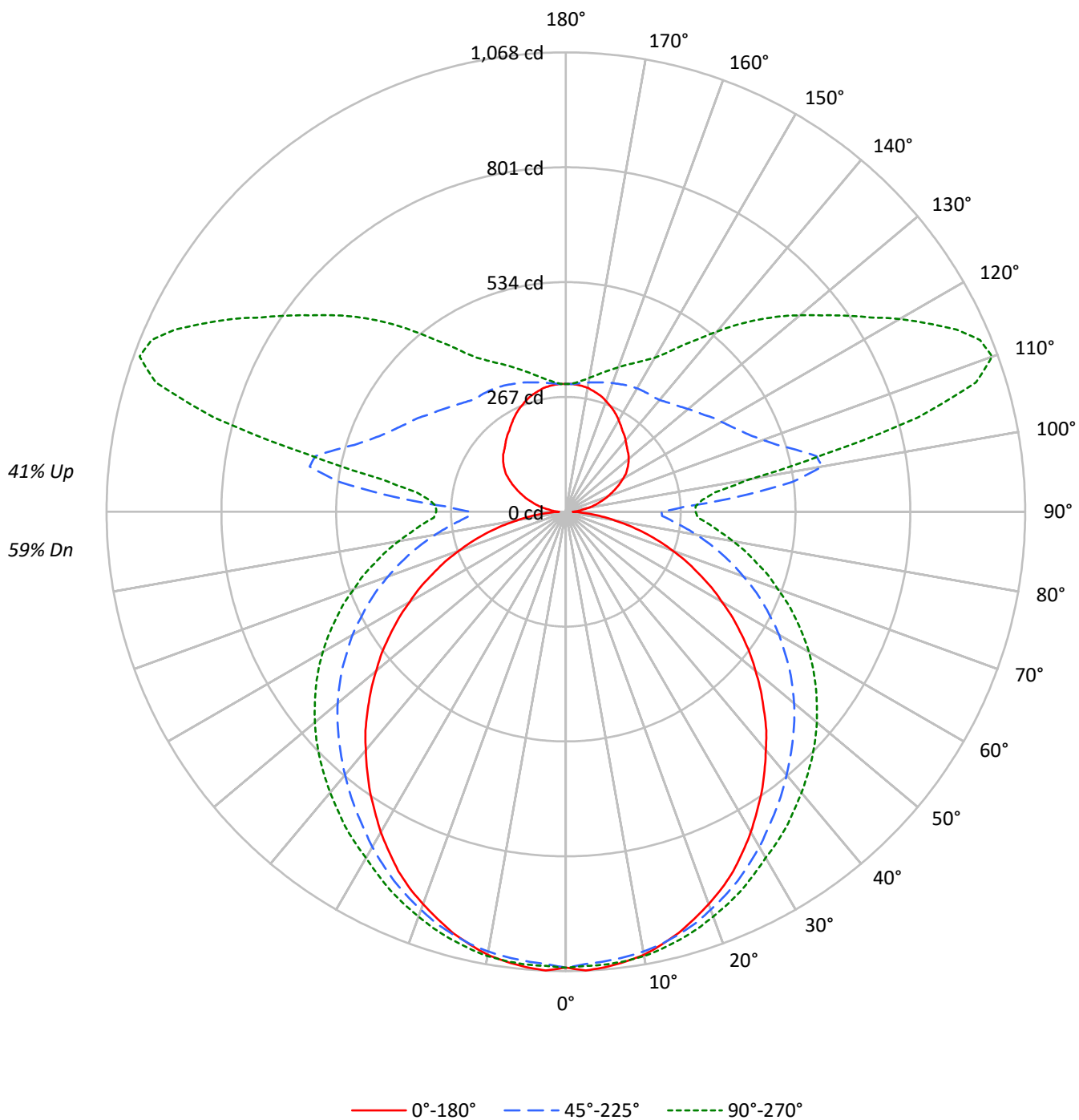
Lumens per Lamp: N/A
Luminaire Lumens: 6117.3 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 76.7
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	76	76	76	64	64	64
1	98	93	88	84	91	87	82	79	75	72	69	64	62	60	54	52	51
2	89	80	73	67	82	75	69	63	65	60	56	55	52	48	46	44	41
3	80	70	62	55	74	65	58	52	56	51	46	48	44	40	41	37	34
4	73	61	53	46	68	57	50	44	50	44	39	43	38	34	36	32	29
5	67	55	46	39	62	51	43	37	44	38	33	38	33	29	32	28	25
6	62	49	40	34	57	46	38	32	40	33	29	34	29	25	29	25	22
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17
9	49	36	29	23	46	34	27	22	30	24	20	26	21	18	22	18	16
10	46	33	26	21	43	31	24	20	28	22	18	24	19	16	21	17	14

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	1.6
10°-20°	288.2	4.7
20°-30°	436.6	7.1
30°-40°	531.7	8.7
40°-50°	572.0	9.4
50°-60°	555.5	9.1
60°-70°	485.2	7.9
70°-80°	373.4	6.1
80°-90°	252.0	4.1
90°-100°	293.0	4.8
100°-110°	533.2	8.7
110°-120°	511.2	8.4
120°-130°	398.3	6.5
130°-140°	302.3	4.9
140°-150°	216.9	3.5
150°-160°	150.2	2.5
160°-170°	88.4	1.4
170°-180°	28.8	0.5
0°-30°	825.2	13.5
0°-40°	1356.9	22.2
0°-60°	2484.5	40.6
0°-90°	3595.1	58.8
90°-120°	1337.3	21.9
90°-150°	2254.9	36.9
90°-180°	2522.0	41.2
0°-180°	6117.3	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	112	222	283	302	12
95°	32	134	401	320	318	30
105°	77	157	556	943	847	83
115°	129	178	446	869	1002	127
125°	174	206	393	686	795	156
135°	203	242	353	547	631	157
145°	230	264	335	425	472	144
155°	261	282	325	368	382	120
165°	284	293	311	330	335	80
175°	296	297	299	303	302	28
180°	297	297	297	297	297	

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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°	16.0	112.2	222.2	282.8	301.5
92.5°	22.4	122.4	276.9	289.4	302.2
95°	32.3	133.6	400.6	319.6	318.5
97.5°	40.5	141.6	531.0	392.4	350.3
100°	54.8	147.0	605.0	548.4	431.8
102.5°	66.3	152.5	597.0	769.4	613.8
105°	77.4	157.3	555.5	942.6	846.7
107.5°	91.1	162.2	516.1	997.5	999.6
110°	103.2	167.5	487.5	974.4	1054.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.8	173.6	464.2	926.7	1042.7
115°	128.9	178.1	446.4	869.2	1002.4
117.5°	141.2	184.3	431.1	815.4	947.9
120°	153.7	190.2	417.9	764.6	896.6
122.5°	165.7	197.8	406.4	723.8	840.5
125°	174.5	205.9	392.7	685.9	794.9
127.5°	183.1	214.9	381.8	650.5	750.0
130°	190.5	224.3	371.5	616.4	710.8
132.5°	197.4	233.5	361.7	581.2	672.1
135°	202.6	241.5	353.4	546.9	631.1
137.5°	208.9	248.4	345.7	512.0	589.7
140°	216.3	253.1	339.1	480.2	547.1
142.5°	223.8	258.2	336.0	450.6	506.0
145°	229.7	264.0	334.8	424.9	471.7
147.5°	237.7	268.6	333.1	402.6	438.6
150°	245.7	273.2	331.4	388.5	413.1
152.5°	253.7	277.7	328.5	378.0	396.5
155°	261.1	282.0	325.1	367.6	382.2
157.5°	267.4	285.4	321.7	358.0	369.7
160°	273.7	288.8	318.3	348.2	357.7
162.5°	280.0	291.4	315.4	339.1	346.2
165°	284.5	293.1	311.4	330.2	335.4
167.5°	288.5	294.8	308.0	322.2	325.1
170°	292.5	295.6	305.1	314.8	316.0
172.5°	294.8	296.6	301.7	308.2	308.5
175°	296.5	296.8	299.4	303.1	302.3
177.5°	297.7	297.1	297.1	299.4	297.7
180°	297.1	297.1	297.1	297.1	297.1

(END OF REPORT)