

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: P1008599

Luminaire Tested: S122DIP-B1005D330UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008599
REPORT IS A COMBINATION OF REPORTS P983606 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D330UB30-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

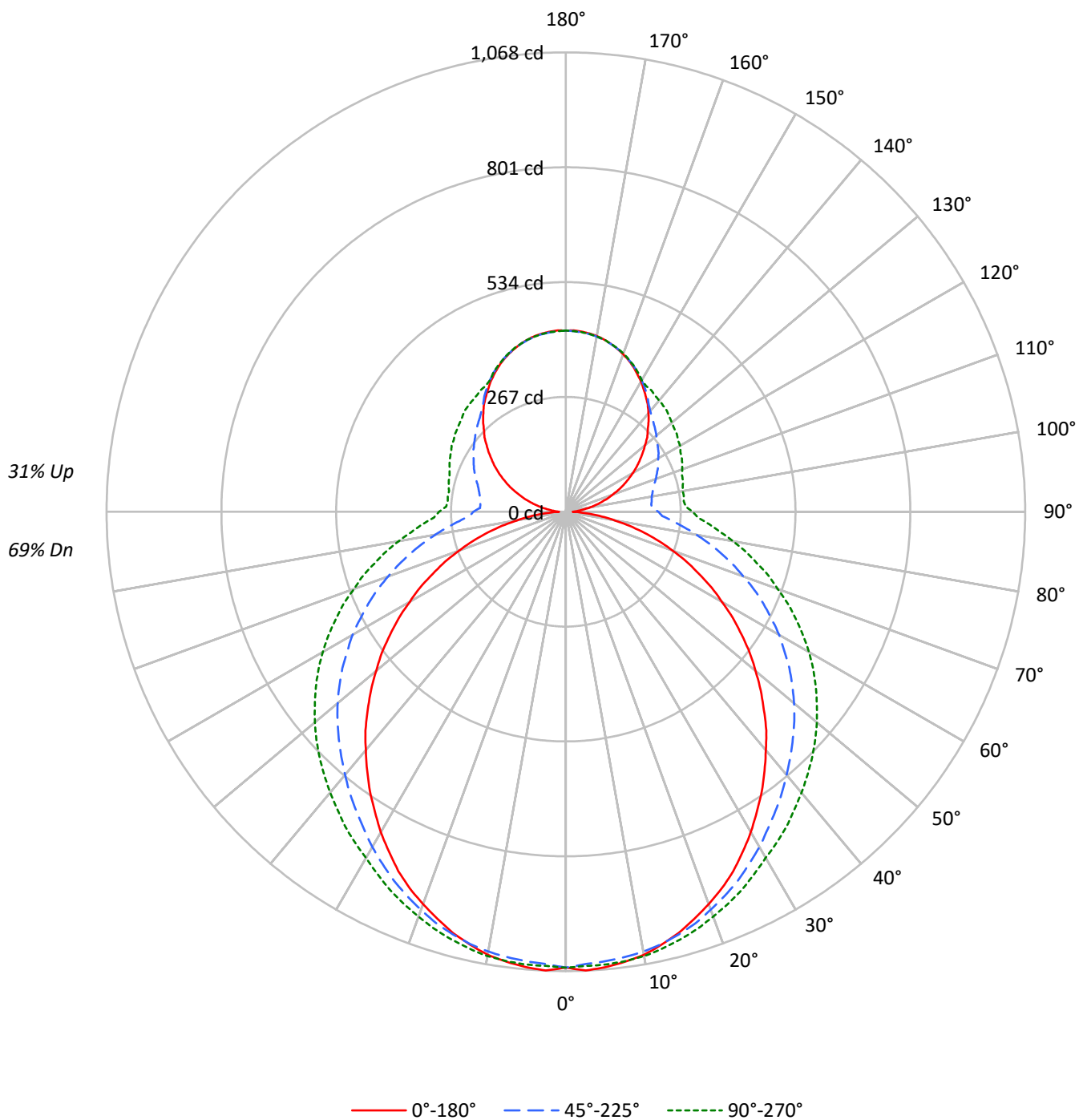
Lumens per Lamp: N/A
Luminaire Lumens: 5223.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73
1	100	95	90	85	94	89	85	81	79	76	73	70	68	65	62	60	58
2	90	81	74	68	85	77	70	65	68	63	59	60	56	53	53	50	47
3	82	71	63	56	77	67	59	53	60	54	49	53	48	44	46	43	39
4	75	62	54	47	70	59	51	45	53	46	41	47	41	37	41	37	33
5	68	55	46	40	64	53	44	38	47	40	35	42	36	32	37	32	29
6	63	50	41	34	59	47	39	33	42	35	30	38	32	28	33	29	25
7	58	45	36	30	55	43	35	29	38	31	27	34	29	24	30	26	22
8	54	41	32	27	51	39	31	26	35	28	24	31	26	22	28	23	20
9	50	37	29	24	47	35	28	23	32	26	21	29	23	19	26	21	18
10	47	34	26	21	44	33	25	21	29	23	19	27	21	18	24	19	16

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	1.9
10°-20°	288.2	5.5
20°-30°	436.6	8.4
30°-40°	531.7	10.2
40°-50°	572.0	11.0
50°-60°	555.5	10.6
60°-70°	485.2	9.3
70°-80°	373.4	7.1
80°-90°	251.3	4.8
90°-100°	198.6	3.8
100°-110°	208.8	4.0
110°-120°	224.9	4.3
120°-130°	232.8	4.5
130°-140°	228.7	4.4
140°-150°	208.5	4.0
150°-160°	172.1	3.3
160°-170°	114.2	2.2
170°-180°	39.9	0.8
0°-30°	825.2	15.8
0°-40°	1356.9	26.0
0°-60°	2484.5	47.6
0°-90°	3594.4	68.8
90°-120°	632.4	12.1
90°-150°	1302.4	24.9
90°-180°	1629.0	31.2
0°-180°	5223.0	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	109	215	276	295	12
95°	31	106	199	258	275	30
105°	84	130	210	265	282	89
115°	148	167	236	282	297	146
125°	210	213	261	302	315	188
135°	269	273	289	321	332	209
145°	325	327	330	339	345	203
155°	372	373	374	375	374	171
165°	404	404	404	406	405	114
175°	421	420	419	421	419	40
180°	421	421	421	421	421	

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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°	15.8	109.0	215.2	275.9	294.7
92.5°	21.6	105.9	199.9	260.2	278.7
95°	30.8	106.5	199.4	257.8	275.4
97.5°	41.7	110.9	201.5	258.3	276.8
100°	55.9	115.6	202.7	259.5	276.0
102.5°	69.3	122.1	206.4	262.1	278.6
105°	84.1	129.7	210.3	264.8	281.7
107.5°	100.5	138.7	215.5	268.2	283.3
110°	114.5	147.5	222.7	271.9	287.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	131.6	158.3	228.7	276.7	292.9
115°	148.3	167.3	235.8	281.5	297.3
117.5°	163.5	178.7	241.4	286.4	300.6
120°	180.2	189.3	247.8	290.8	306.7
122.5°	195.5	200.6	255.7	296.0	309.2
125°	210.0	213.2	261.2	301.7	315.1
127.5°	225.6	228.0	268.0	305.0	317.7
130°	240.2	243.2	274.8	311.0	321.8
132.5°	256.6	258.5	282.0	315.5	326.7
135°	269.2	273.1	289.2	321.2	332.3
137.5°	284.8	288.0	296.4	325.3	334.7
140°	298.7	300.4	305.3	329.8	337.7
142.5°	312.9	314.6	315.7	334.4	340.7
145°	324.9	327.4	329.6	339.1	345.4
147.5°	337.0	340.2	341.6	343.9	347.0
150°	349.5	351.6	353.0	354.1	353.0
152.5°	360.5	362.6	364.4	365.8	364.4
155°	371.5	372.6	373.6	375.4	374.3
157.5°	381.1	381.8	382.5	385.0	383.2
160°	389.6	390.3	390.7	392.8	391.4
162.5°	397.5	397.5	397.8	400.3	398.5
165°	404.2	403.9	403.9	406.3	404.6
167.5°	410.3	409.2	409.2	411.7	409.9
170°	414.9	413.8	413.5	415.9	413.8
172.5°	418.1	417.0	416.7	419.1	417.0
175°	420.6	419.5	418.8	421.3	419.1
177.5°	422.0	420.9	420.2	422.3	420.2
180°	421.3	421.3	421.3	421.3	421.3

(END OF REPORT)