

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: P1011650

Luminaire Tested: S123DIP-B340D805UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011650
REPORT IS A COMBINATION OF REPORTS P989890 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D805UB30-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

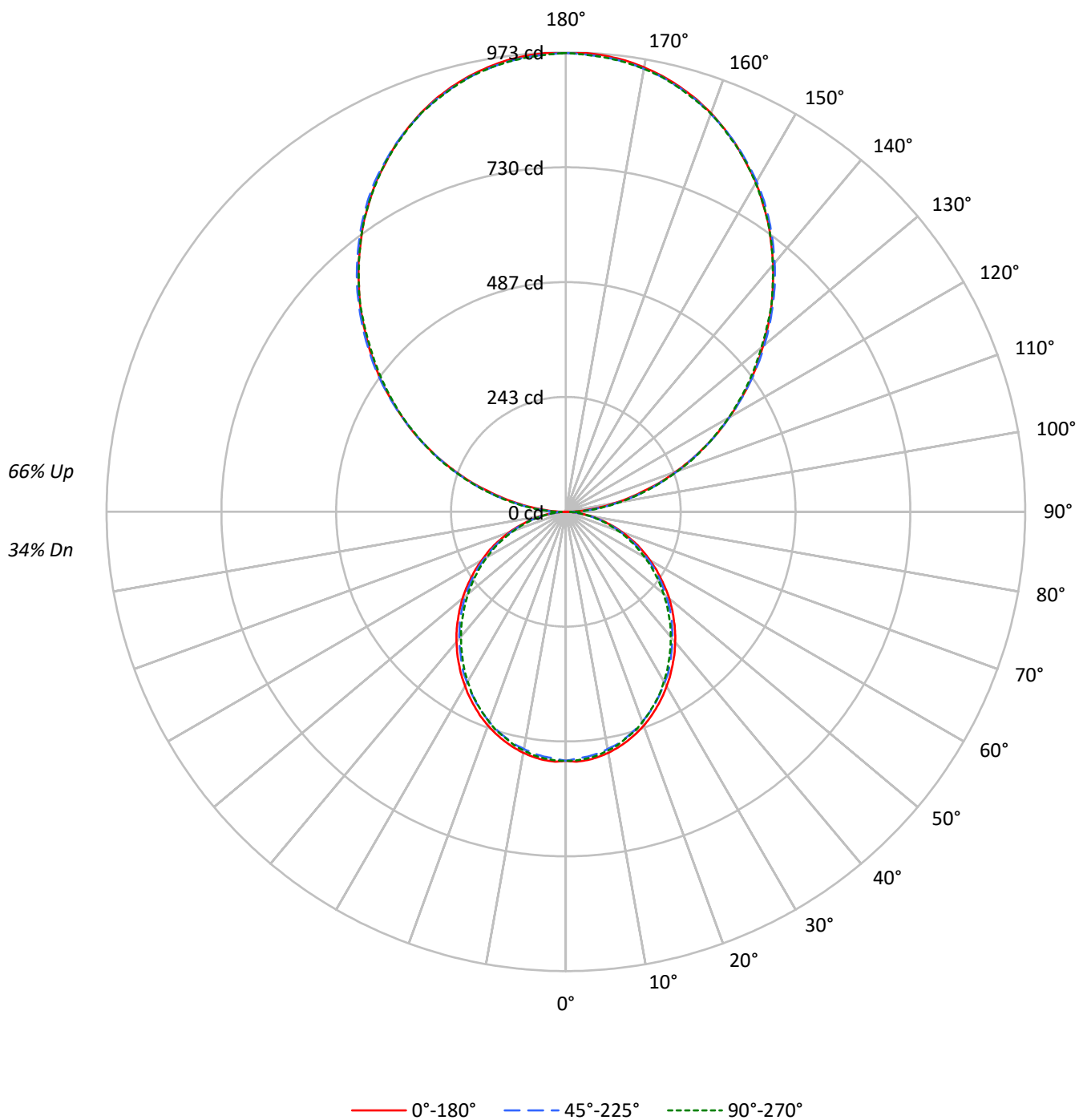
Lumens per Lamp: N/A
Luminaire Lumens: 4068.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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

TEST NUMBER: P1011650

CATALOG NUMBER: S123DIP-B340D805UB30-4F0-XX-W2A-F1

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	35	35
2	86	78	72	67	77	71	66	62	57	53	50	44	42	39	32	30	29
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25
4	71	61	53	47	64	55	49	43	44	40	36	35	31	28	25	23	21
5	65	54	46	40	59	49	42	37	40	35	31	31	27	25	23	20	19
6	60	48	40	35	54	44	37	32	36	31	27	28	24	21	21	18	16
7	56	44	36	30	50	40	33	28	32	27	23	25	22	19	19	16	14
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13
9	48	36	29	24	43	33	26	22	27	22	18	21	18	15	16	13	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5679	5679	5679
5°	5693	5483	5475
10°	5642	5297	5243
15°	5564	5104	4990
20°	5474	4890	4740
25°	5357	4664	4472
30°	5230	4429	4191
35°	5096	4190	3911
40°	4957	3940	3637
45°	4803	3695	3349
50°	4647	3423	3061
55°	4446	3140	2769
60°	4240	2826	2457
65°	4047	2487	2133
70°	3767	2112	1754
75°	3366	1672	1363
80°	2904	1176	963
85°	2267	632	483

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4803 cd/sqm

TEST NUMBER: P1011650

CATALOG NUMBER: S123DIP-B340D805UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	1.2
10°-20°	140.4	3.5
20°-30°	207.4	5.1
30°-40°	242.2	6.0
40°-50°	243.5	6.0
50°-60°	213.9	5.3
60°-70°	159.3	3.9
70°-80°	90.7	2.2
80°-90°	27.8	0.7
90°-100°	62.6	1.5
100°-110°	189.4	4.7
110°-120°	322.4	7.9
120°-130°	424.1	10.4
130°-140°	476.7	11.7
140°-150°	468.7	11.5
150°-160°	394.6	9.7
160°-170°	262.7	6.5
170°-180°	92.0	2.3
0°-30°	397.6	9.8
0°-40°	639.8	15.7
0°-60°	1097.2	27.0
0°-90°	1375.0	33.8
90°-120°	574.3	14.1
90°-150°	1943.8	47.8
90°-180°	2693.0	66.2
0°-180°	4068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	528	526	521	525	524	50
15°	503	501	495	498	496	142
25°	456	454	448	448	447	210
35°	395	392	386	383	381	247
45°	323	322	316	310	308	250
55°	245	245	239	234	232	220
65°	167	165	161	157	156	165
75°	88	87	85	83	82	94
85°	24	23	23	22	22	25
90°	1	8	18	21	23	5
95°	45	50	56	60	60	50
105°	172	173	180	180	182	184
115°	324	327	325	326	325	321
125°	475	477	476	473	470	424
135°	616	621	620	617	615	475
145°	747	749	751	750	747	467
155°	856	856	857	860	854	394
165°	932	930	930	934	929	263
175°	970	967	967	971	966	92
180°	972	972	972	972	972	

TEST NUMBER: P1011650

CATALOG NUMBER: S123DIP-B340D805UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	527.6	527.6	527.6	527.6	527.6
2.5°	529.8	528.0	523.0	527.6	527.1
5°	528.0	525.7	520.8	525.3	524.4
7.5°	523.9	521.7	516.7	520.8	520.3
10°	518.5	516.2	510.3	514.4	513.5
12.5°	511.2	509.4	504.0	506.7	506.2
15°	502.6	500.8	494.9	498.5	495.8
17.5°	493.1	490.8	484.9	487.6	486.7
20°	482.2	479.5	473.6	475.4	474.0
22.5°	469.9	467.2	461.3	462.7	460.9
25°	456.3	453.6	447.7	448.2	446.8
27.5°	442.3	439.6	433.2	433.7	432.3
30°	426.9	424.6	418.2	418.2	415.1
32.5°	411.4	408.3	403.7	400.5	399.2
35°	394.6	391.9	386.0	383.3	381.0
37.5°	377.9	374.2	368.3	365.2	363.8
40°	360.2	357.5	351.1	347.5	345.7
42.5°	342.5	339.3	333.0	329.3	327.5
45°	323.4	321.6	315.7	310.3	308.0
47.5°	304.8	302.1	296.7	291.2	289.4
50°	285.8	283.5	277.6	272.6	269.9
52.5°	265.8	264.5	258.1	254.0	251.3
55°	245.4	245.0	239.1	234.1	231.8
57.5°	226.4	224.5	220.0	215.5	212.7
60°	205.5	205.0	199.6	195.5	193.2
62.5°	186.9	185.5	180.1	176.0	174.6
65°	167.4	165.1	160.6	157.0	155.6
67.5°	146.5	144.7	141.1	137.9	136.1
70°	127.9	125.2	122.5	119.3	117.0
72.5°	108.4	106.6	103.4	100.7	99.8
75°	88.5	86.6	85.3	83.0	81.7
77.5°	70.8	69.9	68.0	66.2	66.2
80°	53.5	52.2	51.3	50.8	50.8
82.5°	36.7	36.7	36.7	35.8	35.4
85°	23.6	22.7	22.7	21.8	21.8
87.5°	11.8	10.4	10.0	9.5	9.5
90°	0.8	8.4	18.3	21.4	22.9
92.5°	22.9	27.5	32.1	34.4	32.8
95°	45.0	50.4	56.5	59.6	59.6
97.5°	74.1	77.9	82.5	86.3	85.5
100°	103.8	108.4	112.2	114.5	116.0
102.5°	138.2	140.5	145.8	148.1	147.3
105°	171.8	173.3	180.2	180.2	181.7
107.5°	211.5	212.2	215.3	217.6	216.8
110°	248.1	249.7	251.2	254.2	252.7

TEST NUMBER: P1011650

CATALOG NUMBER: S123DIP-B340D805UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.3	287.1	287.1	290.9	290.9
115°	324.5	326.8	325.2	326.0	325.2
117.5°	363.4	364.2	362.6	362.6	360.4
120°	399.3	403.9	400.1	399.3	397.8
122.5°	436.7	439.8	438.2	435.9	433.7
125°	474.9	477.2	475.6	472.6	469.5
127.5°	510.0	514.6	513.1	508.5	505.4
130°	545.1	551.2	548.9	545.9	540.5
132.5°	580.2	586.3	584.8	581.0	577.2
135°	616.1	620.7	619.9	616.9	615.4
137.5°	648.9	652.8	655.1	651.2	648.9
140°	683.3	687.1	687.9	687.1	681.8
142.5°	714.6	718.4	720.0	719.2	715.4
145°	747.4	749.0	751.3	750.5	747.4
147.5°	775.7	778.7	781.0	781.0	776.4
150°	805.5	807.0	808.5	808.5	803.9
152.5°	829.9	832.2	832.9	834.5	830.7
155°	855.8	855.8	856.6	859.7	854.3
157.5°	878.0	877.2	878.0	881.0	876.5
160°	898.6	897.1	897.1	900.9	897.8
162.5°	916.9	914.6	915.4	919.2	913.9
165°	932.2	929.9	929.9	934.5	929.1
167.5°	945.2	942.1	942.9	947.5	942.9
170°	955.9	952.8	952.8	958.2	952.8
172.5°	964.3	961.2	961.2	965.8	960.4
175°	969.6	966.6	966.6	971.1	965.8
177.5°	972.7	969.6	969.6	974.2	968.8
180°	971.9	971.9	971.9	971.9	971.9

(END OF REPORT)