

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: P1011640

Luminaire Tested: S123DIP-B340D805UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011640
REPORT IS A COMBINATION OF REPORTS P989865 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D805UB27-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

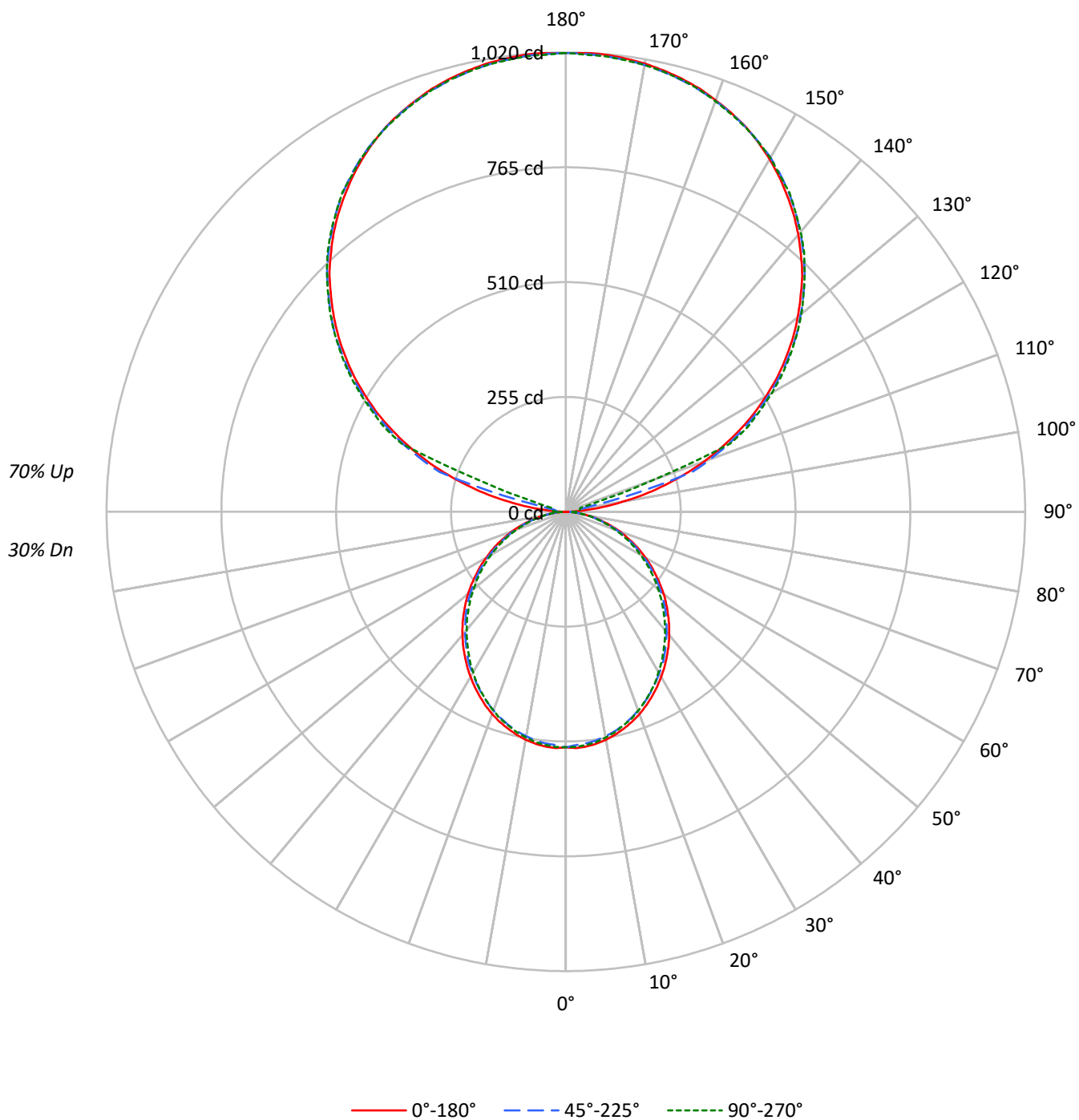
Lumens per Lamp: N/A
Luminaire Lumens: 4469.0 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1011640

CATALOG NUMBER: S123DIP-B340D805UB27-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1011640

CATALOG NUMBER: S123DIP-B340D805UB27-4F0-XX-W2A-F

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
RCR																	
0	102	102	102	102	92	92	92	92	72	72	72		55	55	55		38
1	93	89	85	82	84	80	77	74	63	61	59		48	47	45		34
2	85	78	72	67	76	70	65	61	55	52	49		42	40	38		30
3	77	68	61	56	69	62	56	51	49	45	41		37	34	32		26
4	71	60	53	47	63	54	48	43	43	39	35		33	30	27		23
5	65	54	46	40	58	48	42	37	39	34	30		30	26	23		21
6	60	48	40	34	53	43	37	32	35	30	26		27	23	20		19
7	55	43	35	30	49	39	32	28	31	26	23		24	21	18		17
8	51	39	32	26	46	35	29	24	29	24	20		22	19	16		16
9	47	36	28	23	42	32	26	22	26	21	18		20	17	14		15
10	44	32	25	21	40	30	23	19	24	19	16		19	15	13		14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5628	5628	5628
5°	5643	5435	5427
10°	5593	5251	5197
15°	5515	5060	4947
20°	5426	4847	4699
25°	5311	4623	4433
30°	5184	4391	4154
35°	5052	4155	3877
40°	4913	3905	3604
45°	4761	3664	3320
50°	4607	3393	3033
55°	4408	3112	2745
60°	4203	2800	2437
65°	4010	2466	2114
70°	3734	2093	1739
75°	3336	1656	1350
80°	2883	1164	956
85°	2248	627	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4761 cd/sqm

TEST NUMBER: P1011640

CATALOG NUMBER: S123DIP-B340D805UB27-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.1
10°-20°	139.2	3.1
20°-30°	205.6	4.6
30°-40°	240.1	5.4
40°-50°	241.4	5.4
50°-60°	212.1	4.7
60°-70°	157.9	3.5
70°-80°	89.9	2.0
80°-90°	27.6	0.6
90°-100°	35.9	0.8
100°-110°	173.7	3.9
110°-120°	425.7	9.5
120°-130°	540.4	12.1
130°-140°	577.3	12.9
140°-150°	539.8	12.1
150°-160°	435.4	9.7
160°-170°	281.0	6.3
170°-180°	96.8	2.2
0°-30°	394.1	8.8
0°-40°	634.2	14.2
0°-60°	1087.7	24.3
0°-90°	1363.0	30.5
90°-120°	635.3	14.2
90°-150°	2292.7	51.3
90°-180°	3106.0	69.5
0°-180°	4469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	523	521	516	521	520	50
15°	498	496	491	494	492	140
25°	452	450	444	444	443	208
35°	391	388	383	380	378	245
45°	321	319	313	308	305	248
55°	243	243	237	232	230	218
65°	166	164	159	156	154	164
75°	88	86	84	82	81	94
85°	23	22	22	22	22	25
90°	1	8	18	21	23	4
95°	46	15	24	29	29	55
105°	226	234	166	32	33	239
115°	423	428	434	442	445	418
125°	596	602	606	607	609	533
135°	742	747	750	752	750	572
145°	857	862	864	865	865	536
155°	944	942	943	947	942	435
165°	995	993	992	998	993	281
175°	1019	1015	1016	1021	1015	97
180°	1019	1019	1019	1019	1019	

TEST NUMBER: P1011640

CATALOG NUMBER: S123DIP-B340D805UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.9	522.9	522.9	522.9	522.9
2.5°	525.2	523.4	518.5	522.9	522.5
5°	523.4	521.1	516.2	520.7	519.8
7.5°	519.4	517.1	512.2	516.2	515.8
10°	514.0	511.7	505.9	509.9	509.0
12.5°	506.8	505.0	499.6	502.3	501.8
15°	498.2	496.4	490.6	494.2	491.5
17.5°	488.8	486.5	480.7	483.4	482.5
20°	478.0	475.3	469.4	471.2	469.9
22.5°	465.8	463.1	457.3	458.6	456.8
25°	452.4	449.7	443.8	444.3	442.9
27.5°	438.4	435.7	429.4	429.9	428.5
30°	423.1	420.9	414.6	414.6	411.4
32.5°	407.8	404.7	400.2	397.0	395.7
35°	391.2	388.5	382.7	380.0	377.7
37.5°	374.6	371.0	365.1	362.0	360.6
40°	357.0	354.3	348.0	344.4	342.6
42.5°	339.5	336.3	330.0	326.4	324.6
45°	320.6	318.8	313.0	307.6	305.3
47.5°	302.2	299.5	294.1	288.7	286.9
50°	283.3	281.0	275.2	270.2	267.5
52.5°	263.5	262.1	255.9	251.8	249.1
55°	243.3	242.8	237.0	232.0	229.8
57.5°	224.4	222.6	218.1	213.6	210.9
60°	203.7	203.2	197.8	193.8	191.6
62.5°	185.3	183.9	178.5	174.5	173.1
65°	165.9	163.7	159.2	155.6	154.2
67.5°	145.2	143.4	139.8	136.7	134.9
70°	126.8	124.1	121.4	118.3	116.0
72.5°	107.5	105.7	102.5	99.8	98.9
75°	87.7	85.9	84.5	82.3	80.9
77.5°	70.1	69.2	67.4	65.6	65.6
80°	53.1	51.7	50.8	50.4	50.4
82.5°	36.4	36.4	36.4	35.5	35.1
85°	23.4	22.5	22.5	21.6	21.6
87.5°	11.7	10.3	9.9	9.4	9.4
90°	0.8	8.3	18.2	21.2	22.7
92.5°	17.4	12.9	19.7	25.0	25.7
95°	46.2	15.1	23.5	28.8	28.8
97.5°	84.0	62.8	24.2	30.3	31.0
100°	127.9	143.1	25.0	31.0	31.8
102.5°	177.9	187.7	56.0	31.0	32.5
105°	225.6	233.9	165.8	31.8	33.3
107.5°	276.3	283.1	294.4	177.9	78.7
110°	327.0	333.0	341.4	316.4	208.2

TEST NUMBER: P1011640

CATALOG NUMBER: S123DIP-B340D805UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.4	380.7	389.1	395.9	394.4
115°	423.1	427.7	434.5	442.0	445.1
117.5°	470.1	475.3	479.1	485.2	485.9
120°	513.2	520.0	522.3	528.3	528.3
122.5°	557.1	562.4	565.4	569.2	570.0
125°	596.5	602.5	605.5	607.1	608.6
127.5°	635.8	641.9	645.7	647.9	646.4
130°	672.2	678.2	681.2	684.3	682.7
132.5°	707.0	713.0	715.3	718.3	716.1
135°	742.5	747.1	750.1	752.4	750.1
137.5°	772.8	778.9	780.4	784.2	782.7
140°	803.1	807.6	809.9	812.9	811.4
142.5°	831.1	835.6	837.9	840.2	837.9
145°	856.8	862.1	863.7	865.2	865.2
147.5°	881.8	885.6	887.1	888.6	884.8
150°	904.5	906.8	908.3	909.8	907.6
152.5°	925.0	925.7	926.5	929.5	925.7
155°	943.9	942.4	943.1	946.9	942.4
157.5°	959.0	959.0	958.3	962.8	956.8
160°	972.6	971.9	971.1	975.7	970.4
162.5°	985.5	983.2	982.5	987.8	983.2
165°	995.4	993.1	992.3	998.4	993.1
167.5°	1003.7	1000.7	1000.7	1006.7	1000.7
170°	1010.5	1007.5	1007.5	1013.5	1007.5
172.5°	1015.0	1011.3	1012.0	1018.1	1011.3
175°	1018.8	1015.0	1015.8	1021.1	1015.0
177.5°	1020.3	1016.6	1017.3	1023.4	1015.8
180°	1018.8	1018.8	1018.8	1018.8	1018.8

(END OF REPORT)