

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: P1011641

Luminaire Tested: S123DIP-B340D805UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011641
REPORT IS A COMBINATION OF REPORTS P989866 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-F1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

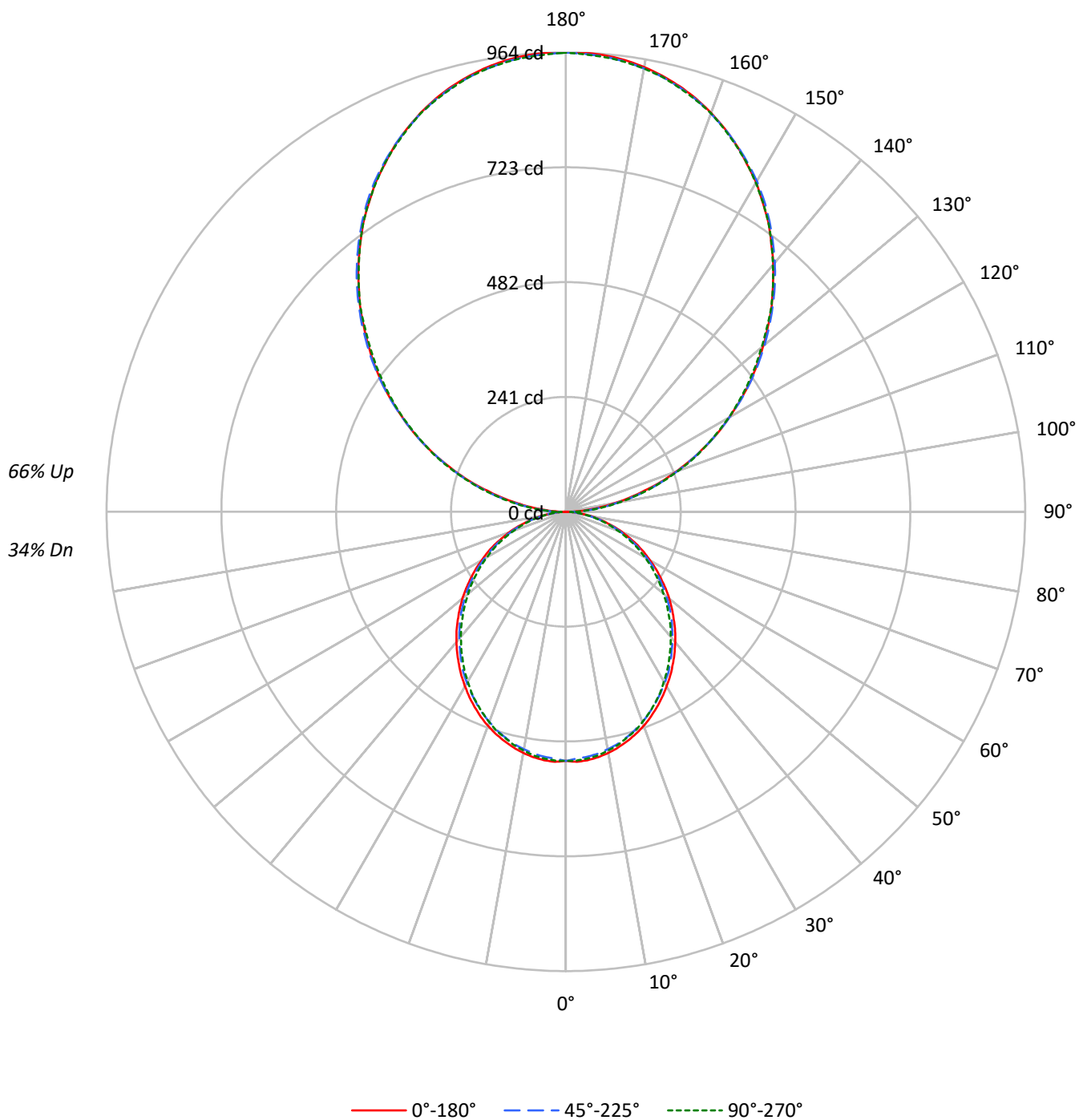
Lumens per Lamp: N/A
Luminaire Lumens: 4033.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1011641

CATALOG NUMBER: S123DIP-B340D805UB27-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1011641

CATALOG NUMBER: S123DIP-B340D805UB27-4F0-XX-W2A-F1

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°	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: P1011641

CATALOG NUMBER: S123DIP-B340D805UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.2
10°-20°	139.2	3.5
20°-30°	205.6	5.1
30°-40°	240.1	6.0
40°-50°	241.4	6.0
50°-60°	212.1	5.3
60°-70°	157.9	3.9
70°-80°	89.9	2.2
80°-90°	27.6	0.7
90°-100°	62.0	1.5
100°-110°	187.7	4.7
110°-120°	319.6	7.9
120°-130°	420.5	10.4
130°-140°	472.6	11.7
140°-150°	464.7	11.5
150°-160°	391.2	9.7
160°-170°	260.4	6.5
170°-180°	91.2	2.3
0°-30°	394.1	9.8
0°-40°	634.2	15.7
0°-60°	1087.7	27.0
0°-90°	1363.0	33.8
90°-120°	569.4	14.1
90°-150°	1927.2	47.8
90°-180°	2670.0	66.2
0°-180°	4033.0	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	5
95°	45	50	56	59	59	49
105°	170	172	179	179	180	182
115°	322	324	322	323	322	318
125°	471	473	472	469	466	420
135°	611	615	615	612	610	471
145°	741	743	745	744	741	463
155°	848	848	849	852	847	391
165°	924	922	922	926	921	261
175°	961	958	958	963	958	91
180°	964	964	964	964	964	

TEST NUMBER: P1011641

CATALOG NUMBER: S123DIP-B340D805UB27-4F0-XX-W2A-F1

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°	22.7	27.3	31.8	34.1	32.5
95°	44.7	50.0	56.0	59.0	59.0
97.5°	73.4	77.2	81.8	85.5	84.8
100°	102.9	107.5	111.3	113.5	115.1
102.5°	137.0	139.3	144.6	146.8	146.1
105°	170.3	171.8	178.6	178.6	180.2
107.5°	209.7	210.4	213.5	215.7	215.0
110°	246.0	247.5	249.0	252.1	250.6

TEST NUMBER: P1011641

CATALOG NUMBER: S123DIP-B340D805UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.9	284.6	284.6	288.4	288.4
115°	321.7	324.0	322.5	323.2	322.5
117.5°	360.3	361.1	359.6	359.6	357.3
120°	395.9	400.4	396.6	395.9	394.4
122.5°	433.0	436.0	434.5	432.2	429.9
125°	470.8	473.1	471.6	468.6	465.5
127.5°	505.6	510.2	508.7	504.1	501.1
130°	540.5	546.5	544.2	541.2	535.9
132.5°	575.3	581.3	579.8	576.0	572.3
135°	610.9	615.4	614.6	611.6	610.1
137.5°	643.4	647.2	649.5	645.7	643.4
140°	677.5	681.3	682.0	681.3	676.0
142.5°	708.5	712.3	713.8	713.0	709.3
145°	741.1	742.6	744.8	744.1	741.1
147.5°	769.1	772.1	774.4	774.4	769.8
150°	798.6	800.1	801.6	801.6	797.1
152.5°	822.8	825.1	825.8	827.3	823.6
155°	848.5	848.5	849.3	852.3	847.0
157.5°	870.5	869.7	870.5	873.5	869.0
160°	890.9	889.4	889.4	893.2	890.2
162.5°	909.1	906.8	907.6	911.4	906.1
165°	924.2	922.0	922.0	926.5	921.2
167.5°	937.1	934.1	934.8	939.4	934.8
170°	947.7	944.7	944.7	950.0	944.7
172.5°	956.0	953.0	953.0	957.5	952.2
175°	961.3	958.3	958.3	962.8	957.5
177.5°	964.4	961.3	961.3	965.9	960.6
180°	963.6	963.6	963.6	963.6	963.6

(END OF REPORT)