

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: P1010594

Luminaire Tested: S123DIP-B340D585UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010594
REPORT IS A COMBINATION OF REPORTS P989813 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D585UB2750-4F0-XX-W2A-D_2700K
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

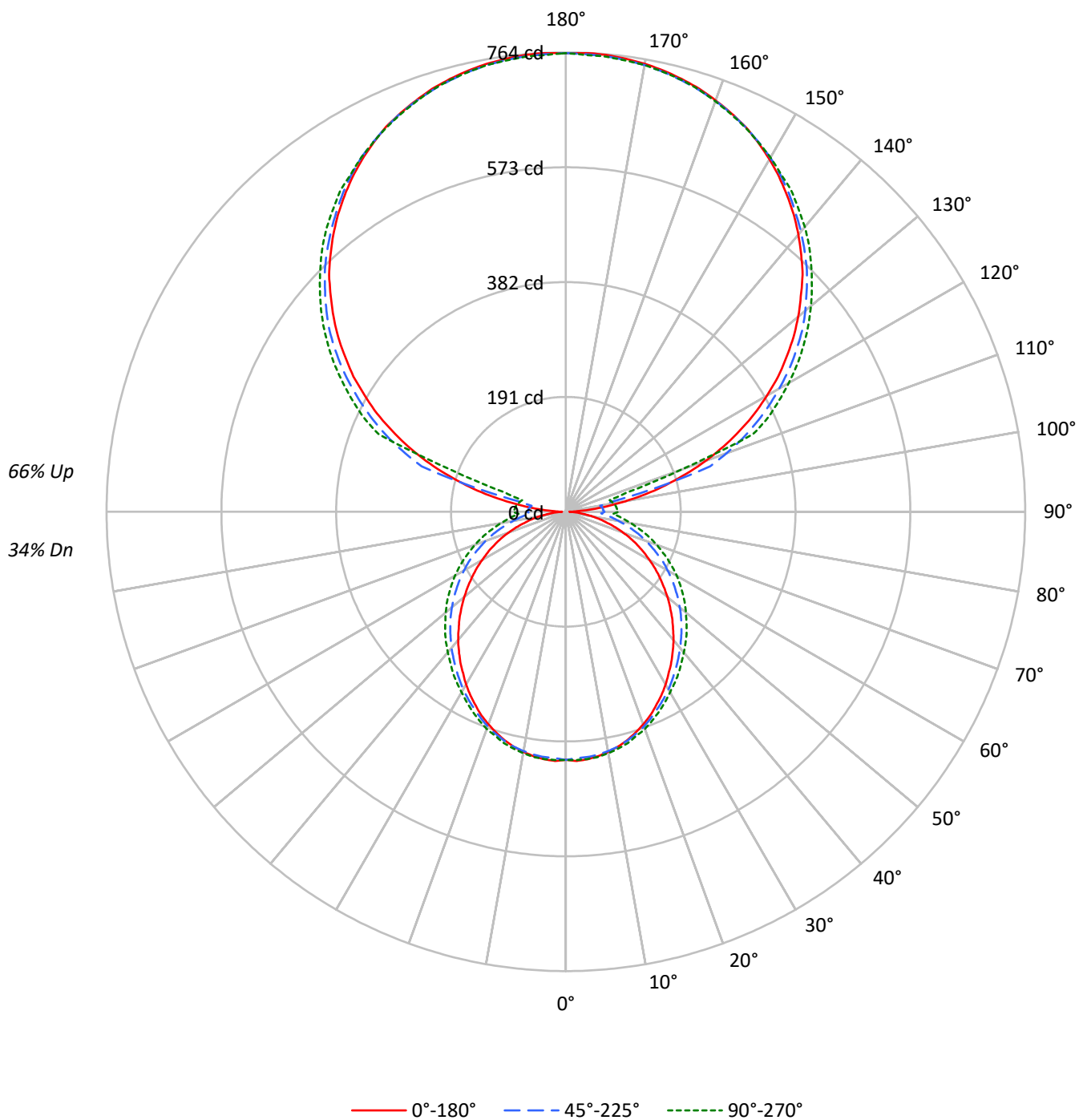
Lumens per Lamp: N/A
Luminaire Lumens: 3713.9 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
Input Voltage (V): 120
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: P1010594

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-D_2700K

Luminous Intensity Polar Plot



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CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-D_2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42	34			
1	94	89	85	81	84	80	77	74	64	62	60	49	48	46	36	35	34	27			
2	85	77	71	66	76	70	64	60	56	52	49	43	40	38	31	29	28	22			
3	77	68	60	54	69	61	55	50	49	44	41	38	34	32	27	25	23	19			
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	24	22	20	16			
5	65	53	45	39	58	48	41	36	39	33	29	30	26	23	22	19	17	14			
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15	12			
7	55	43	35	29	49	39	32	27	31	26	22	24	21	18	18	15	13	10			
8	51	38	31	26	46	35	28	24	28	23	20	22	18	16	16	14	12	9			
9	47	35	28	23	42	32	25	21	26	21	17	20	17	14	15	12	11	8			
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	11	10	8			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4442	4442	4442
5°	4455	4312	4308
10°	4413	4196	4164
15°	4355	4066	4009
20°	4272	3923	3844
25°	4170	3760	3672
30°	4065	3614	3500
35°	3948	3460	3360
40°	3836	3319	3212
45°	3713	3184	3089
50°	3589	3049	2956
55°	3454	2910	2835
60°	3320	2769	2710
65°	3184	2617	2564
70°	2980	2450	2412
75°	2720	2256	2257
80°	2416	2061	2080
85°	2113	1902	1953

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3713 cd/sqm

TEST NUMBER: P1010594

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-D_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	1.1
10°-20°	111.6	3.0
20°-30°	166.9	4.5
30°-40°	199.3	5.4
40°-50°	208.5	5.6
50°-60°	195.6	5.3
60°-70°	163.4	4.4
70°-80°	116.9	3.1
80°-90°	71.1	1.9
90°-100°	70.6	1.9
100°-110°	162.2	4.4
110°-120°	340.1	9.2
120°-130°	416.8	11.2
130°-140°	437.7	11.8
140°-150°	405.3	10.9
150°-160°	326.0	8.8
160°-170°	210.4	5.7
170°-180°	72.5	2.0
0°-30°	317.7	8.6
0°-40°	516.9	13.9
0°-60°	921.1	24.8
0°-90°	1272.4	34.3
90°-120°	572.9	15.4
90°-150°	1832.7	49.3
90°-180°	2442.0	65.8
0°-180°	3713.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	413	412	410	413	413	39
15°	393	395	394	399	398	111
25°	355	360	361	367	367	164
35°	306	313	319	326	327	191
45°	250	261	272	280	284	193
55°	191	206	222	234	237	171
65°	132	149	169	182	187	130
75°	72	93	115	130	135	76
85°	22	44	68	84	88	23
90°	6	34	64	82	88	6
95°	40	34	62	80	84	45
105°	172	190	158	70	75	183
115°	319	328	349	366	371	315
125°	448	452	468	478	483	400
135°	557	560	567	577	577	429
145°	642	646	647	651	653	402
155°	707	706	706	709	706	326
165°	745	744	743	748	744	211
175°	763	760	760	764	760	73
180°	763	763	763	763	763	

TEST NUMBER: P1010594

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	412.7	412.7	412.7	412.7	412.7
2.5°	414.9	413.6	410.0	413.6	413.2
5°	413.2	412.3	409.6	413.2	412.7
7.5°	410.0	410.0	407.3	411.8	411.4
10°	405.5	406.4	404.2	408.7	407.8
12.5°	400.1	401.5	400.1	404.2	403.3
15°	393.4	394.7	394.3	398.8	398.3
17.5°	385.3	388.0	387.5	391.6	390.7
20°	376.3	379.0	379.9	383.9	384.4
22.5°	366.8	369.5	370.9	376.3	375.8
25°	355.2	359.7	361.0	366.8	366.8
27.5°	343.9	348.9	351.6	356.5	357.0
30°	331.8	337.6	341.2	346.6	346.6
32.5°	318.3	325.0	330.0	335.8	337.2
35°	305.7	312.9	318.7	325.5	327.3
37.5°	292.2	300.3	307.1	314.7	316.0
40°	278.7	286.8	295.8	303.5	305.3
42.5°	263.9	274.2	283.7	292.2	294.9
45°	250.0	260.7	272.0	280.5	284.1
47.5°	235.1	247.3	259.8	269.3	272.0
50°	220.7	233.3	247.3	257.6	260.7
52.5°	205.5	218.9	234.7	245.5	249.5
55°	190.6	205.5	221.6	233.8	237.4
57.5°	176.2	191.5	209.0	221.2	225.2
60°	160.9	177.1	195.6	208.1	213.1
62.5°	146.6	163.2	183.0	195.6	200.1
65°	131.7	149.3	169.0	182.5	187.0
67.5°	116.9	135.3	155.1	169.9	173.5
70°	101.2	120.5	142.1	156.4	160.9
72.5°	86.8	106.1	128.6	143.4	147.9
75°	71.5	92.6	115.1	129.9	135.3
77.5°	58.4	79.6	102.1	117.8	121.8
80°	44.5	66.5	89.9	105.2	109.7
82.5°	32.4	54.8	78.7	94.0	98.5
85°	22.0	44.5	68.3	83.6	88.1
87.5°	13.5	36.0	58.9	74.2	78.7
90°	6.4	34.1	64.4	82.0	87.6
92.5°	18.4	34.3	61.9	80.7	85.4
95°	39.5	33.8	62.1	79.9	84.4
97.5°	67.4	67.7	59.9	78.0	83.0
100°	99.8	125.5	57.8	75.3	80.4
102.5°	136.8	156.7	78.3	72.2	77.9
105°	172.5	189.5	157.8	70.1	75.3
107.5°	210.0	224.6	251.5	176.4	106.1
110°	247.5	260.2	284.4	277.4	199.9

TEST NUMBER: P1010594

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	294.1	317.4	333.7	336.7
115°	319.0	327.8	349.1	365.6	371.4
117.5°	354.1	361.7	379.8	395.2	399.3
120°	386.0	393.3	409.9	424.8	428.0
122.5°	418.9	423.8	439.9	452.7	456.4
125°	447.9	452.4	467.8	478.3	482.6
127.5°	477.3	481.5	495.5	506.2	508.3
130°	504.5	508.7	519.9	530.7	532.3
132.5°	530.2	534.8	543.2	553.5	555.0
135°	556.9	559.8	567.0	576.8	577.3
137.5°	579.5	583.6	587.9	597.9	599.0
140°	601.7	605.1	608.2	617.2	618.3
142.5°	622.7	625.7	627.4	634.9	635.5
145°	641.9	645.5	646.6	651.4	653.2
147.5°	660.2	663.1	664.2	666.6	665.6
150°	677.2	678.9	680.1	681.2	680.4
152.5°	692.5	693.1	693.7	695.9	693.1
155°	706.7	705.6	706.1	709.0	705.6
157.5°	718.0	718.0	717.5	720.9	716.3
160°	728.2	727.7	727.1	730.5	726.5
162.5°	737.9	736.2	735.6	739.6	736.2
165°	745.2	743.5	743.0	747.5	743.5
167.5°	751.5	749.2	749.2	753.7	749.2
170°	756.6	754.3	754.3	758.8	754.3
172.5°	760.0	757.1	757.7	762.2	757.1
175°	762.8	760.0	760.5	764.5	760.0
177.5°	763.9	761.1	761.7	766.2	760.5
180°	762.8	762.8	762.8	762.8	762.8

(END OF REPORT)