

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: P1011602

Luminaire Tested: S123DIP-B340D585UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011602
REPORT IS A COMBINATION OF REPORTS P989827 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D585UB30-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

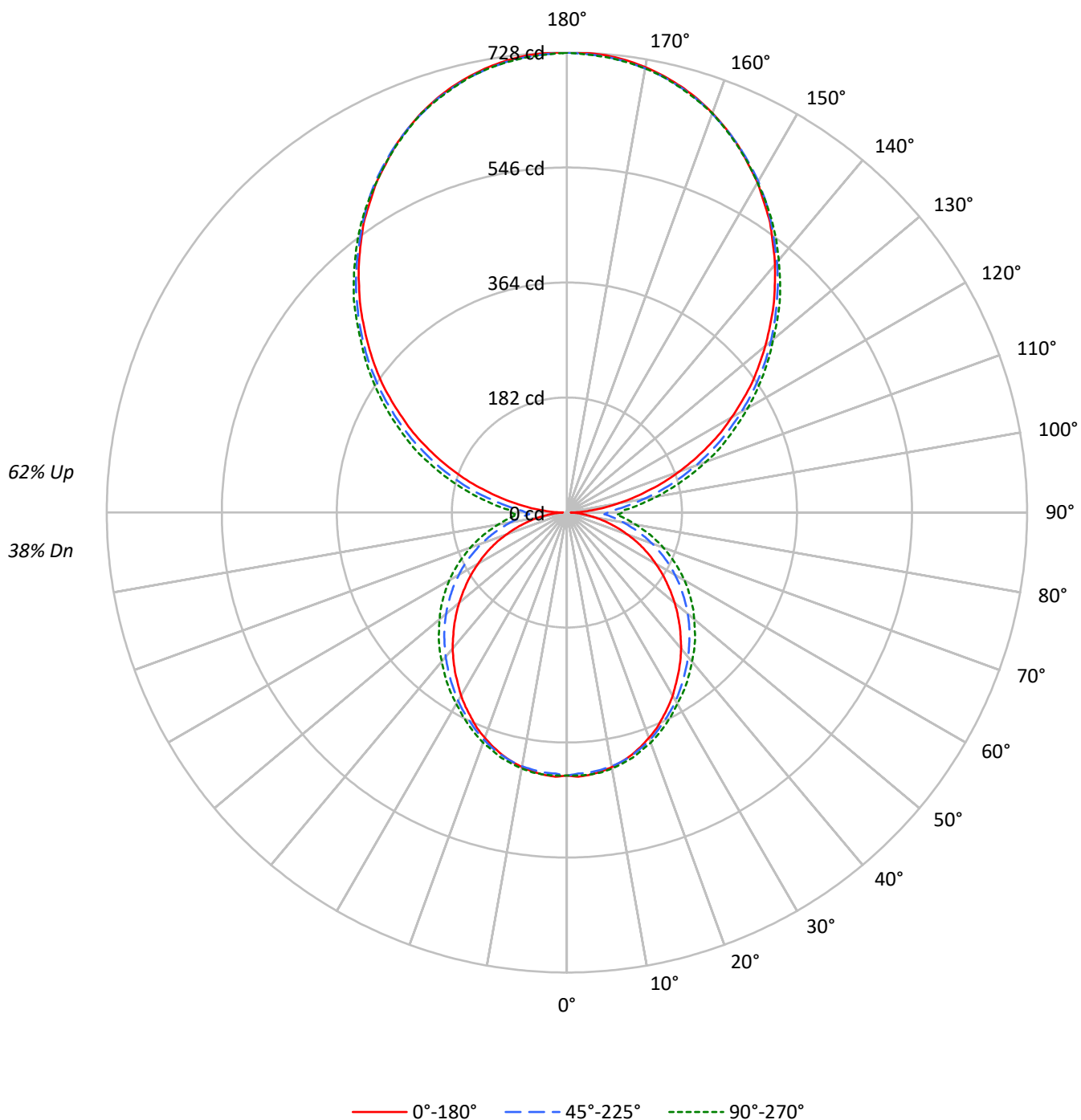
Lumens per Lamp: N/A
Luminaire Lumens: 3417.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
Input Voltage (V):
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: P1011602

CATALOG NUMBER: S123DIP-B340D585UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



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CATALOG NUMBER: S123DIP-B340D585UB30-4F0-XX-W2A-D1

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45
1	94	90	85	82	85	81	78	75	66	63	61	51	50	48	38	37	36
2	85	78	71	66	77	71	65	61	57	53	50	45	42	40	33	31	30
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25
4	71	60	52	46	64	55	48	42	44	39	35	35	31	28	26	23	21
5	65	53	45	39	59	48	41	36	39	34	30	31	27	24	23	21	18
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	18	15	13
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	13	11
10	44	32	25	20	40	30	23	19	24	19	16	20	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4481	4481	4481
5°	4493	4349	4346
10°	4451	4232	4199
15°	4392	4102	4044
20°	4308	3957	3877
25°	4205	3793	3704
30°	4101	3646	3530
35°	3981	3490	3389
40°	3869	3349	3239
45°	3744	3211	3116
50°	3620	3075	2982
55°	3484	2936	2859
60°	3349	2793	2733
65°	3213	2641	2586
70°	3004	2470	2433
75°	2743	2276	2277
80°	2438	2079	2098
85°	2132	1919	1970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3744 cd/sqm

TEST NUMBER: P1011602

CATALOG NUMBER: S123DIP-B340D585UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	1.2
10°-20°	112.6	3.3
20°-30°	168.3	4.9
30°-40°	201.0	5.9
40°-50°	210.3	6.2
50°-60°	197.3	5.8
60°-70°	164.8	4.8
70°-80°	117.9	3.4
80°-90°	71.7	2.1
90°-100°	90.9	2.7
100°-110°	174.2	5.1
110°-120°	263.0	7.7
120°-130°	329.9	9.7
130°-140°	362.5	10.6
140°-150°	352.1	10.3
150°-160°	295.4	8.6
160°-170°	196.7	5.8
170°-180°	68.9	2.0
0°-30°	320.4	9.4
0°-40°	521.4	15.3
0°-60°	929.0	27.2
0°-90°	1283.4	37.6
90°-120°	528.1	15.5
90°-150°	1572.6	46.0
90°-180°	2134.0	62.5
0°-180°	3417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	417	416	413	417	416	40
15°	397	398	398	402	402	112
25°	358	363	364	370	370	165
35°	308	316	322	328	330	193
45°	252	263	274	283	287	194
55°	192	207	224	236	239	172
65°	133	150	170	184	189	131
75°	72	93	116	131	136	77
85°	22	45	69	84	89	23
90°	6	34	65	83	88	7
95°	39	60	87	104	108	41
105°	132	144	169	182	187	141
115°	245	252	268	279	282	243
125°	357	359	371	378	379	319
135°	462	465	470	476	477	356
145°	560	561	562	566	565	350
155°	641	641	641	644	640	295
165°	698	696	696	700	696	197
175°	726	724	724	727	723	69
180°	728	728	728	728	728	

TEST NUMBER: P1011602

CATALOG NUMBER: S123DIP-B340D585UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.3	416.3	416.3	416.3	416.3
2.5°	418.5	417.2	413.6	417.2	416.7
5°	416.7	415.8	413.1	416.7	416.3
7.5°	413.6	413.6	410.8	415.4	414.9
10°	409.0	409.9	407.7	412.2	411.3
12.5°	403.6	404.9	403.6	407.7	406.7
15°	396.8	398.1	397.7	402.2	401.8
17.5°	388.6	391.3	390.9	395.0	394.1
20°	379.5	382.3	383.2	387.3	387.7
22.5°	370.0	372.7	374.1	379.5	379.1
25°	358.2	362.8	364.1	370.0	370.0
27.5°	346.9	351.9	354.6	359.6	360.0
30°	334.7	340.5	344.2	349.6	349.6
32.5°	321.0	327.8	332.8	338.7	340.1
35°	308.3	315.6	321.5	328.3	330.1
37.5°	294.7	302.9	309.7	317.4	318.8
40°	281.1	289.3	298.4	306.1	307.9
42.5°	266.2	276.6	286.1	294.7	297.5
45°	252.1	263.0	274.3	283.0	286.6
47.5°	237.2	249.4	262.1	271.6	274.3
50°	222.6	235.3	249.4	259.8	263.0
52.5°	207.2	220.8	236.7	247.6	251.7
55°	192.3	207.2	223.6	235.8	239.4
57.5°	177.8	193.2	210.9	223.1	227.2
60°	162.3	178.7	197.3	209.9	214.9
62.5°	147.8	164.6	184.6	197.3	201.8
65°	132.9	150.5	170.5	184.1	188.6
67.5°	117.9	136.5	156.4	171.4	175.0
70°	102.0	121.5	143.3	157.8	162.3
72.5°	87.5	107.0	129.7	144.7	149.2
75°	72.1	93.4	116.1	131.0	136.5
77.5°	58.9	80.3	102.9	118.8	122.9
80°	44.9	67.1	90.7	106.1	110.6
82.5°	32.6	55.3	79.4	94.8	99.3
85°	22.2	44.9	68.9	84.3	88.9
87.5°	13.6	36.3	59.4	74.8	79.4
90°	6.5	34.4	64.9	82.7	88.4
92.5°	22.6	45.5	71.6	88.3	91.3
95°	38.7	60.4	87.2	103.5	108.1
97.5°	60.0	79.2	103.9	120.4	124.3
100°	81.8	99.8	123.5	138.4	144.0
102.5°	107.1	121.5	145.9	160.3	164.3
105°	132.2	144.3	168.9	181.6	186.9
107.5°	161.6	171.6	192.5	206.4	210.0
110°	188.5	197.8	217.1	231.2	233.6

TEST NUMBER: P1011602

CATALOG NUMBER: S123DIP-B340D585UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.1	224.1	241.3	255.4	259.5
115°	245.3	252.4	267.5	279.0	282.0
117.5°	274.4	278.6	292.8	303.7	305.6
120°	300.8	306.5	318.6	328.5	330.4
122.5°	328.8	332.0	344.9	353.2	354.6
125°	357.0	358.7	370.7	377.9	378.8
127.5°	383.3	386.2	396.4	402.0	403.0
130°	409.6	413.7	421.0	427.4	426.0
132.5°	435.4	440.0	445.6	450.9	451.2
135°	462.2	465.3	469.6	475.5	476.7
137.5°	486.8	489.3	494.1	498.5	499.1
140°	512.2	515.0	516.9	523.1	521.4
142.5°	535.6	538.0	539.1	544.4	543.9
145°	560.2	560.8	562.5	565.6	565.1
147.5°	580.8	583.1	584.8	586.2	584.6
150°	603.1	604.3	605.4	605.4	602.9
152.5°	621.4	623.1	623.7	624.8	622.0
155°	640.9	640.9	641.4	643.7	639.7
157.5°	657.4	656.9	657.4	659.7	656.3
160°	672.9	671.7	671.7	674.6	672.3
162.5°	686.6	684.9	685.4	688.3	684.3
165°	698.0	696.3	696.3	699.7	695.7
167.5°	707.7	705.5	706.0	709.5	706.0
170°	715.7	713.5	713.5	717.5	713.5
172.5°	722.0	719.7	719.7	723.2	719.2
175°	726.0	723.7	723.7	727.2	723.2
177.5°	728.3	726.0	726.0	729.5	725.5
180°	727.7	727.7	727.7	727.7	727.7

(END OF REPORT)