

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: P1011612

Luminaire Tested: S123DIP-B340D585UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011612
REPORT IS A COMBINATION OF REPORTS P989837 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D585UB35-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

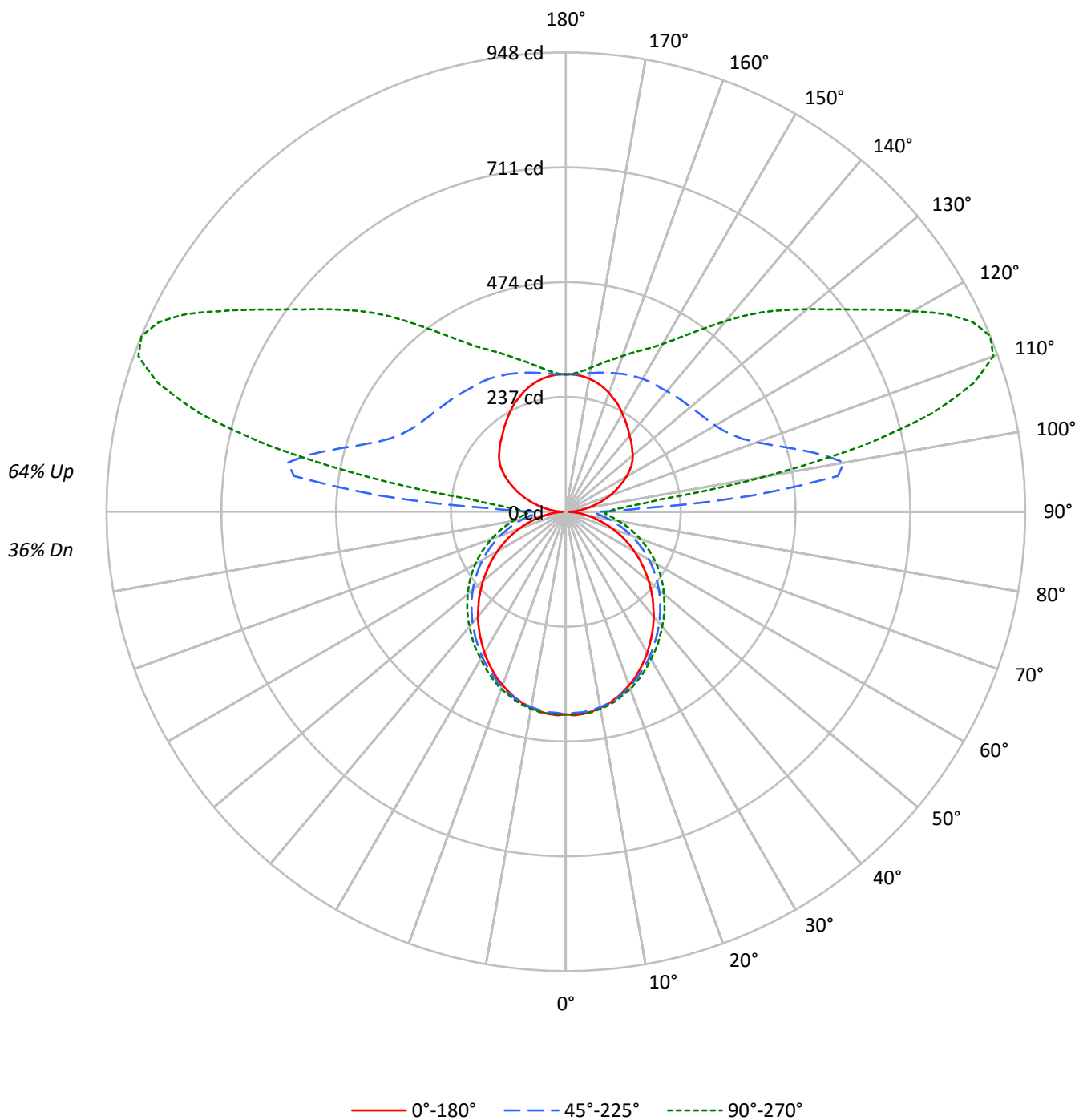
Lumens per Lamp: N/A
Luminaire Lumens: 3543.9 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
Input Voltage (V):
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: P1011612

CATALOG NUMBER: S123DIP-B340D585UB35-4F0-XX-W2A-D4

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	94	89	85	82	85	81	77	74	65	63	60	51	49	47	37	36	35
2	85	78	71	66	77	70	65	60	57	53	49	44	41	39	32	31	29
3	78	68	60	55	70	62	55	50	50	45	41	39	35	33	28	26	24
4	71	60	52	46	64	54	47	42	44	39	35	34	31	28	25	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	47	39	34	54	43	36	31	35	30	26	28	24	21	20	18	16
7	55	43	35	29	50	39	32	27	32	26	23	25	21	18	19	16	14
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4500	4500	4500
5°	4512	4368	4365
10°	4470	4250	4217
15°	4411	4119	4061
20°	4327	3973	3894
25°	4224	3809	3720
30°	4118	3660	3545
35°	4000	3505	3403
40°	3885	3363	3253
45°	3760	3225	3129
50°	3636	3089	2995
55°	3499	2948	2872
60°	3363	2805	2746
65°	3225	2652	2597
70°	3019	2481	2444
75°	2754	2286	2287
80°	2448	2088	2107
85°	2142	1927	1979

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3760 cd/sqm

TEST NUMBER: P1011612

CATALOG NUMBER: S123DIP-B340D585UB35-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.1
10°-20°	113.1	3.2
20°-30°	169.1	4.8
30°-40°	201.9	5.7
40°-50°	211.2	6.0
50°-60°	198.2	5.6
60°-70°	165.5	4.7
70°-80°	118.4	3.3
80°-90°	72.0	2.0
90°-100°	205.3	5.8
100°-110°	482.8	13.6
110°-120°	460.8	13.0
120°-130°	362.0	10.2
130°-140°	281.5	7.9
140°-150°	207.1	5.8
150°-160°	143.6	4.1
160°-170°	84.4	2.4
170°-180°	27.4	0.8
0°-30°	321.8	9.1
0°-40°	523.6	14.8
0°-60°	933.0	26.3
0°-90°	1288.9	36.4
90°-120°	1148.9	32.4
90°-150°	1999.5	56.4
90°-180°	2255.0	63.6
0°-180°	3543.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	418	418	415	418	418	40
15°	398	400	399	404	404	112
25°	360	364	366	372	372	166
35°	310	317	323	330	332	194
45°	253	264	276	284	288	195
55°	193	208	224	237	240	173
65°	133	151	171	185	189	132
75°	72	94	117	132	137	77
85°	22	45	69	85	89	23
90°	7	35	66	83	88	6
95°	24	86	385	158	130	25
105°	70	113	496	854	781	74
115°	120	154	377	809	926	119
125°	165	195	344	621	727	147
135°	193	229	330	505	584	149
145°	219	250	321	407	449	137
155°	248	268	310	353	368	114
165°	271	279	297	315	321	77
175°	283	283	285	289	289	27
180°	284	284	284	284	284	

TEST NUMBER: P1011612

CATALOG NUMBER: S123DIP-B340D585UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.1	418.1	418.1	418.1	418.1
2.5°	420.3	419.0	415.3	419.0	418.5
5°	418.5	417.6	414.9	418.5	418.1
7.5°	415.3	415.3	412.6	417.1	416.7
10°	410.8	411.7	409.4	414.0	413.0
12.5°	405.3	406.7	405.3	409.4	408.5
15°	398.5	399.8	399.4	403.9	403.5
17.5°	390.3	393.0	392.6	396.7	395.7
20°	381.2	383.9	384.8	388.9	389.4
22.5°	371.6	374.3	375.7	381.2	380.7
25°	359.8	364.3	365.7	371.6	371.6
27.5°	348.4	353.4	356.1	361.1	361.6
30°	336.1	342.0	345.6	351.1	351.1
32.5°	322.4	329.3	334.3	340.2	341.6
35°	309.7	317.0	322.9	329.7	331.5
37.5°	296.0	304.2	311.0	318.8	320.1
40°	282.3	290.5	299.7	307.4	309.2
42.5°	267.3	277.8	287.4	296.0	298.7
45°	253.2	264.1	275.5	284.2	287.8
47.5°	238.2	250.5	263.2	272.8	275.5
50°	223.6	236.4	250.5	260.9	264.1
52.5°	208.1	221.8	237.7	248.6	252.7
55°	193.1	208.1	224.5	236.8	240.5
57.5°	178.5	194.0	211.8	224.1	228.2
60°	163.0	179.4	198.1	210.9	215.9
62.5°	148.5	165.3	185.3	198.1	202.7
65°	133.4	151.2	171.2	184.9	189.4
67.5°	118.4	137.1	157.1	172.1	175.8
70°	102.5	122.0	143.9	158.5	163.0
72.5°	87.9	107.5	130.2	145.3	149.8
75°	72.4	93.8	116.6	131.6	137.1
77.5°	59.2	80.6	103.4	119.3	123.4
80°	45.1	67.4	91.1	106.6	111.1
82.5°	32.8	55.6	79.7	95.2	99.7
85°	22.3	45.1	69.2	84.7	89.3
87.5°	13.7	36.4	59.7	75.1	79.7
90°	7.0	35.1	65.8	83.0	88.1
92.5°	14.1	59.4	154.5	99.2	97.3
95°	24.5	86.2	385.4	158.4	130.4
97.5°	35.6	93.5	565.8	305.6	197.2
100°	46.6	98.8	583.0	575.0	417.2
102.5°	58.1	105.0	543.0	748.8	624.0
105°	70.2	113.0	495.6	853.7	781.0
107.5°	82.4	122.7	453.2	897.8	882.2
110°	95.7	132.5	418.2	896.6	938.7

TEST NUMBER: P1011612

CATALOG NUMBER: S123DIP-B340D585UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	108.3	143.1	393.7	861.0	948.0
115°	119.9	154.4	377.0	809.0	926.5
117.5°	132.0	164.6	364.6	753.3	883.6
120°	144.1	174.8	356.0	700.8	827.6
122.5°	155.0	184.9	349.6	658.7	775.5
125°	165.0	194.6	344.0	620.9	727.4
127.5°	173.0	204.4	340.0	589.6	685.7
130°	180.4	213.6	336.0	560.4	650.4
132.5°	185.7	221.8	333.1	532.9	616.5
135°	192.6	229.2	330.3	505.2	583.5
137.5°	198.9	235.5	327.3	478.3	549.2
140°	204.8	241.2	324.9	452.6	513.6
142.5°	211.7	245.9	321.9	428.2	479.9
145°	219.1	250.5	320.8	406.8	449.1
147.5°	226.1	255.4	319.1	389.6	422.7
150°	233.6	259.4	316.8	375.0	399.7
152.5°	241.0	263.7	313.9	363.5	381.6
155°	248.5	268.0	310.5	353.0	367.8
157.5°	254.2	271.8	307.6	342.6	354.6
160°	261.1	274.9	304.1	333.1	342.0
162.5°	266.3	277.2	300.7	324.2	330.5
165°	271.4	279.2	297.3	315.4	320.8
167.5°	275.5	280.9	293.8	307.5	311.0
170°	278.9	281.8	290.4	300.7	302.4
172.5°	281.2	282.6	287.5	294.7	294.4
175°	282.9	283.2	285.2	289.2	288.7
177.5°	284.1	283.5	283.5	285.8	284.6
180°	283.5	283.5	283.5	283.5	283.5

(END OF REPORT)