

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: P1011516

Luminaire Tested: S123DIP-B340D1195UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011516
REPORT IS A COMBINATION OF REPORTS P989708 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB30-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

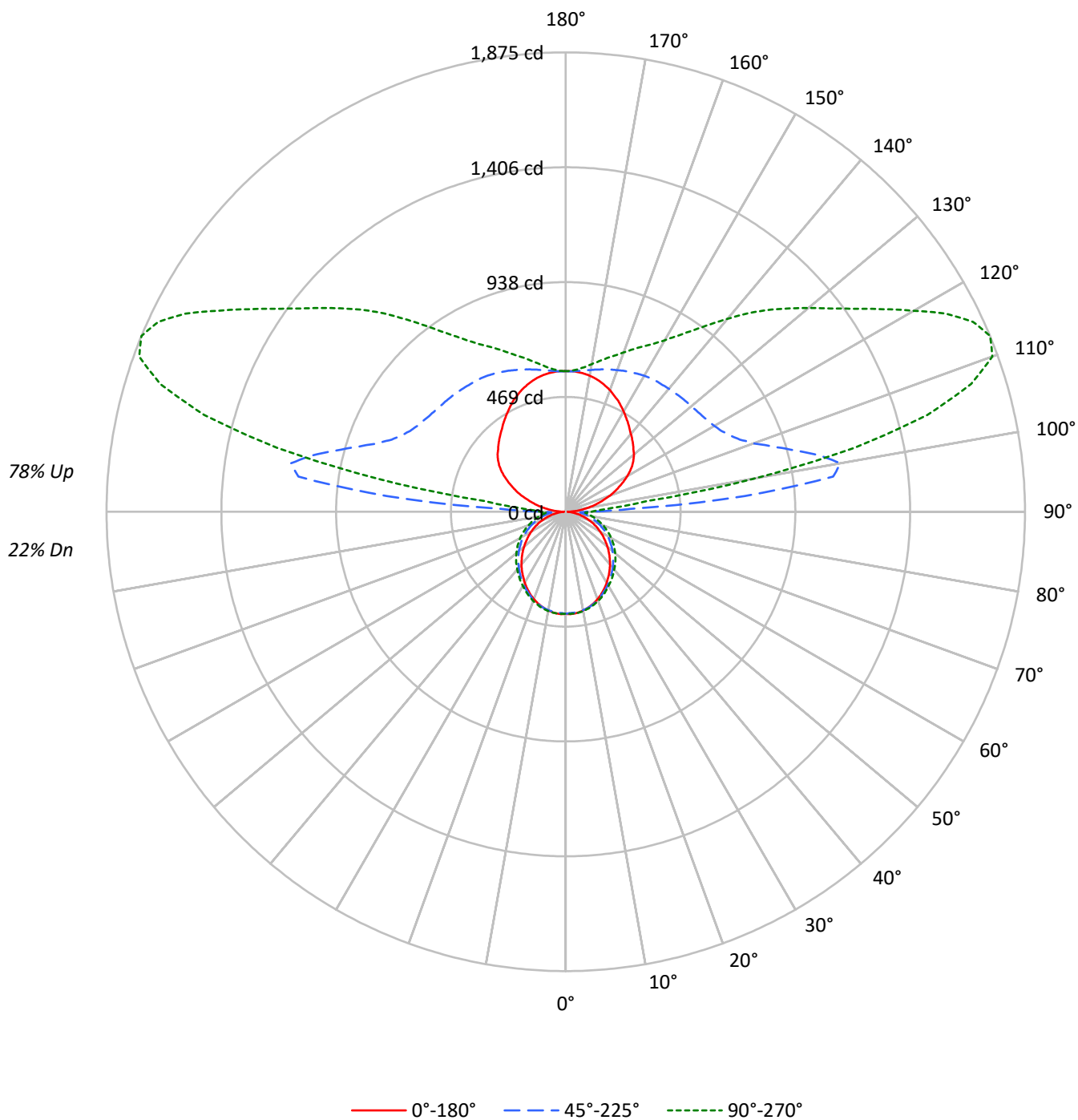
Lumens per Lamp: N/A
Luminaire Lumens: 5727.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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: P1011516

CATALOG NUMBER: S123DIP-B340D1195UB30-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1011516

CATALOG NUMBER: S123DIP-B340D1195UB30-4F0-XX-W2A-D4

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	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31			22
1	91	87	83	79	81	77	74	71	59	57	55	42	41	39	26	26	25			18
2	83	75	69	64	73	67	62	58	51	48	45	36	34	32	23	22	21			15
3	75	66	59	53	66	59	53	48	45	41	37	32	29	27	20	19	17			12
4	69	58	51	45	61	52	45	40	40	35	32	28	25	23	18	16	15			10
5	63	52	44	38	55	46	39	34	35	31	27	25	22	20	16	14	13			9
6	58	46	38	33	51	41	34	29	32	27	23	23	20	17	14	13	11			8
7	53	41	34	28	47	37	30	26	29	24	20	21	17	15	13	11	10			7
8	49	37	30	25	43	33	27	22	26	21	18	19	16	13	12	10	9			6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8			5
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	10	8	7			5

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: P1011516

CATALOG NUMBER: S123DIP-B340D1195UB30-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	0.7
10°-20°	112.6	2.0
20°-30°	168.3	2.9
30°-40°	201.0	3.5
40°-50°	210.3	3.7
50°-60°	197.3	3.4
60°-70°	164.8	2.9
70°-80°	117.9	2.1
80°-90°	73.3	1.3
90°-100°	370.0	6.5
100°-110°	943.5	16.5
110°-120°	910.0	15.9
120°-130°	719.7	12.6
130°-140°	564.0	9.8
140°-150°	417.8	7.3
150°-160°	290.6	5.1
160°-170°	170.7	3.0
170°-180°	55.5	1.0
0°-30°	320.4	5.6
0°-40°	521.4	9.1
0°-60°	929.0	16.2
0°-90°	1285.0	22.4
90°-120°	2223.6	38.8
90°-150°	3925.1	68.5
90°-180°	4442.0	77.6
0°-180°	5727.0	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°	8	42	80	99	105	7
95°	44	151	734	260	198	46
105°	138	214	968	1679	1528	147
115°	240	304	738	1601	1835	238
125°	332	392	681	1232	1444	295
135°	389	463	663	1008	1164	300
145°	443	507	649	819	903	277
155°	503	542	628	714	744	231
165°	549	565	602	638	649	155
175°	572	573	577	585	584	54
180°	574	574	574	574	574	

TEST NUMBER: P1011516

CATALOG NUMBER: S123DIP-B340D1195UB30-4F0-XX-W2A-D4

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°	8.2	42.0	80.2	99.2	104.9
92.5°	22.8	94.6	263.6	136.4	128.2
95°	44.5	151.0	733.5	259.8	198.2
97.5°	67.2	167.8	1101.2	560.9	336.7
100°	90.0	180.5	1139.1	1109.2	785.2
102.5°	113.9	195.7	1060.9	1464.3	1207.0
105°	138.3	213.6	967.6	1679.3	1527.8
107.5°	163.4	235.0	884.8	1771.9	1735.9
110°	190.8	257.0	816.3	1772.2	1853.5

TEST NUMBER: P1011516

CATALOG NUMBER: S123DIP-B340D1195UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.4	280.2	769.5	1703.3	1875.2
115°	240.3	304.4	738.1	1600.8	1834.8
117.5°	264.7	327.0	715.7	1491.2	1750.9
120°	289.8	349.6	700.6	1387.5	1640.8
122.5°	311.8	371.3	690.3	1305.2	1538.3
125°	332.3	392.2	681.0	1231.6	1443.8
127.5°	348.6	412.6	675.2	1170.8	1362.2
130°	363.7	431.1	669.5	1114.8	1293.9
132.5°	374.8	448.0	666.1	1062.2	1227.8
135°	388.7	463.2	662.6	1008.2	1164.3
137.5°	401.5	476.0	658.5	956.7	1097.7
140°	413.9	487.6	655.5	906.8	1028.1
142.5°	427.8	497.6	651.4	860.5	962.7
145°	442.9	506.8	649.1	819.4	903.0
147.5°	457.5	516.7	645.6	786.9	852.0
150°	472.6	524.8	641.0	758.8	807.9
152.5°	487.7	533.6	635.2	735.6	772.2
155°	502.8	542.2	628.2	714.2	744.3
157.5°	514.4	549.8	622.4	693.2	717.6
160°	528.3	556.2	615.4	674.0	692.1
162.5°	538.8	560.8	608.5	656.0	668.8
165°	549.2	564.9	601.5	638.1	649.1
167.5°	557.4	568.4	594.5	622.4	629.4
170°	564.3	570.2	587.6	608.4	611.9
172.5°	569.0	571.9	581.7	596.2	595.7
175°	572.5	573.0	577.1	585.2	584.1
177.5°	574.8	573.6	573.6	578.3	575.9
180°	573.6	573.6	573.6	573.6	573.6

(END OF REPORT)