

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: P1011507

Luminaire Tested: S123DIP-B340D1195UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011507
REPORT IS A COMBINATION OF REPORTS P989684 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB27-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

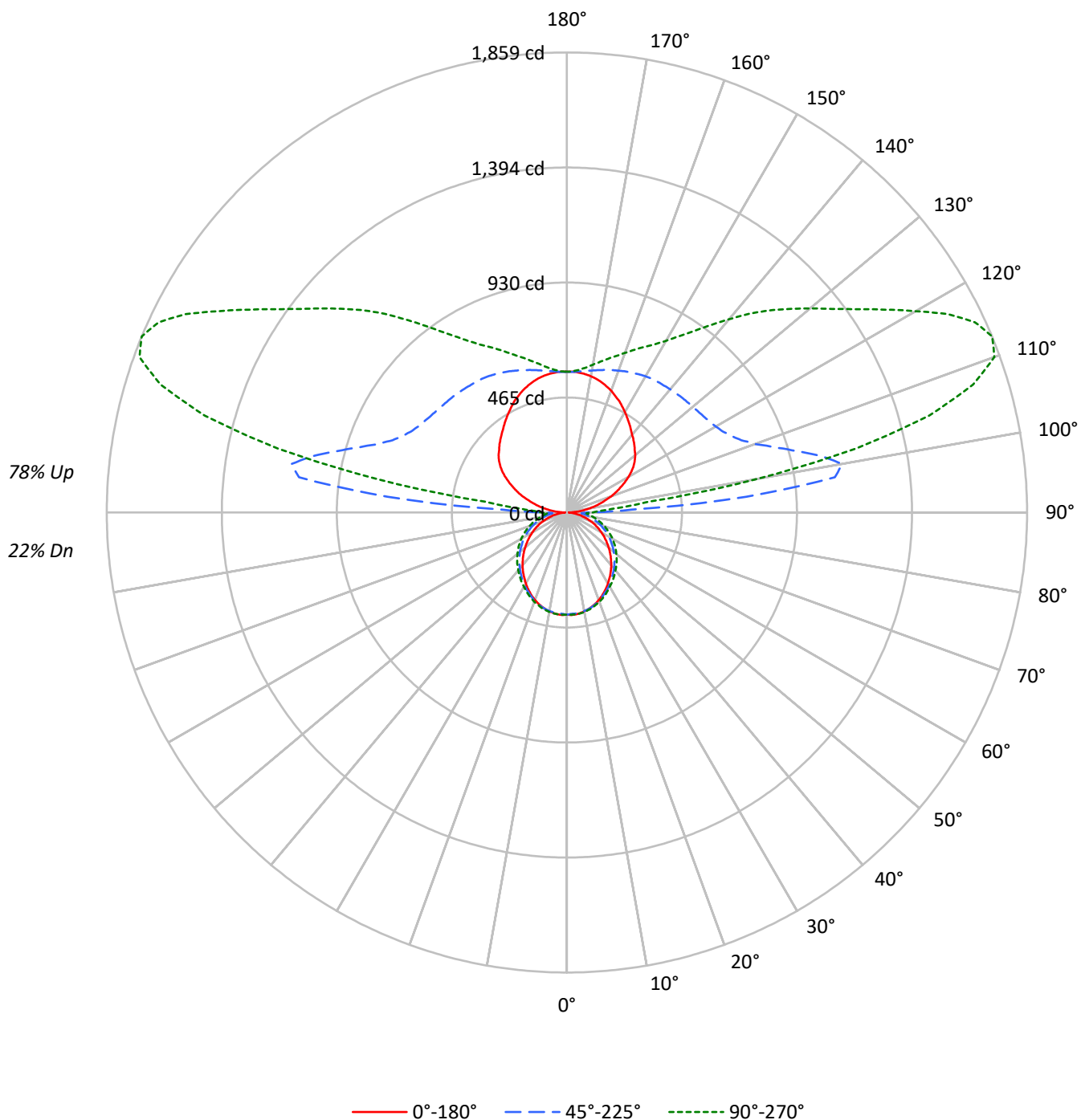
Lumens per Lamp: N/A
Luminaire Lumens: 5677.9 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1011507

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-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	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°	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: P1011507

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.7
10°-20°	111.6	2.0
20°-30°	166.9	2.9
30°-40°	199.3	3.5
40°-50°	208.5	3.7
50°-60°	195.6	3.4
60°-70°	163.4	2.9
70°-80°	116.9	2.1
80°-90°	72.7	1.3
90°-100°	366.9	6.5
100°-110°	935.4	16.5
110°-120°	902.2	15.9
120°-130°	713.6	12.6
130°-140°	559.1	9.8
140°-150°	414.2	7.3
150°-160°	288.2	5.1
160°-170°	169.3	3.0
170°-180°	55.1	1.0
0°-30°	317.7	5.6
0°-40°	516.9	9.1
0°-60°	921.1	16.2
0°-90°	1274.1	22.4
90°-120°	2204.5	38.8
90°-150°	3891.4	68.5
90°-180°	4404.0	77.6
0°-180°	5677.9	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°	8	42	80	98	104	7
95°	44	150	727	258	196	45
105°	137	212	959	1665	1515	145
115°	238	302	732	1587	1819	236
125°	329	389	675	1221	1432	293
135°	385	459	657	1000	1154	298
145°	439	502	644	812	895	275
155°	498	538	623	708	738	229
165°	544	560	596	633	644	153
175°	568	568	572	580	579	54
180°	569	569	569	569	569	

TEST NUMBER: P1011507

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-D4

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°	8.1	41.8	79.6	98.4	104.0
92.5°	22.7	93.8	261.3	135.1	127.1
95°	44.0	149.8	727.2	257.6	196.4
97.5°	66.7	166.4	1091.7	556.1	333.8
100°	89.2	179.0	1129.3	1099.7	778.4
102.5°	113.0	194.0	1051.8	1451.8	1196.7
105°	137.1	211.8	959.3	1665.0	1514.8
107.5°	162.0	233.1	877.1	1756.8	1721.1
110°	189.2	254.8	809.3	1757.0	1837.7

TEST NUMBER: P1011507

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.5	277.8	762.9	1688.7	1859.2
115°	238.2	301.8	731.8	1587.0	1819.1
117.5°	262.4	324.1	709.5	1478.4	1735.9
120°	287.3	346.5	694.7	1375.6	1626.8
122.5°	309.2	368.2	684.3	1294.0	1525.1
125°	329.4	388.7	675.2	1221.0	1431.5
127.5°	345.5	409.0	669.4	1160.8	1350.5
130°	360.5	427.4	663.8	1105.2	1282.8
132.5°	371.6	444.2	660.3	1053.0	1217.3
135°	385.4	459.2	657.0	999.5	1154.3
137.5°	398.1	471.8	652.9	948.4	1088.2
140°	410.2	483.3	649.9	899.0	1019.3
142.5°	424.1	493.3	645.8	853.1	954.4
145°	439.0	502.5	643.5	812.3	895.3
147.5°	453.6	512.3	640.1	780.1	844.6
150°	468.5	520.4	635.5	752.3	801.0
152.5°	483.5	529.0	629.7	729.3	765.6
155°	498.5	537.7	622.8	708.0	737.9
157.5°	510.0	545.1	617.1	687.2	711.5
160°	523.8	551.4	610.1	668.3	686.1
162.5°	534.2	556.0	603.2	650.4	663.1
165°	544.5	560.0	596.3	632.6	643.5
167.5°	552.6	563.5	589.4	617.1	624.0
170°	559.5	565.2	582.5	603.2	606.7
172.5°	564.1	567.0	576.8	591.2	590.6
175°	567.6	568.2	572.2	580.2	579.1
177.5°	569.9	568.7	568.7	573.3	571.0
180°	568.7	568.7	568.7	568.7	568.7

(END OF REPORT)