

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: P1011462

Luminaire Tested: S123DIP-B340D1025UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011462
REPORT IS A COMBINATION OF REPORTS P989624 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1025UB27-4F0-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

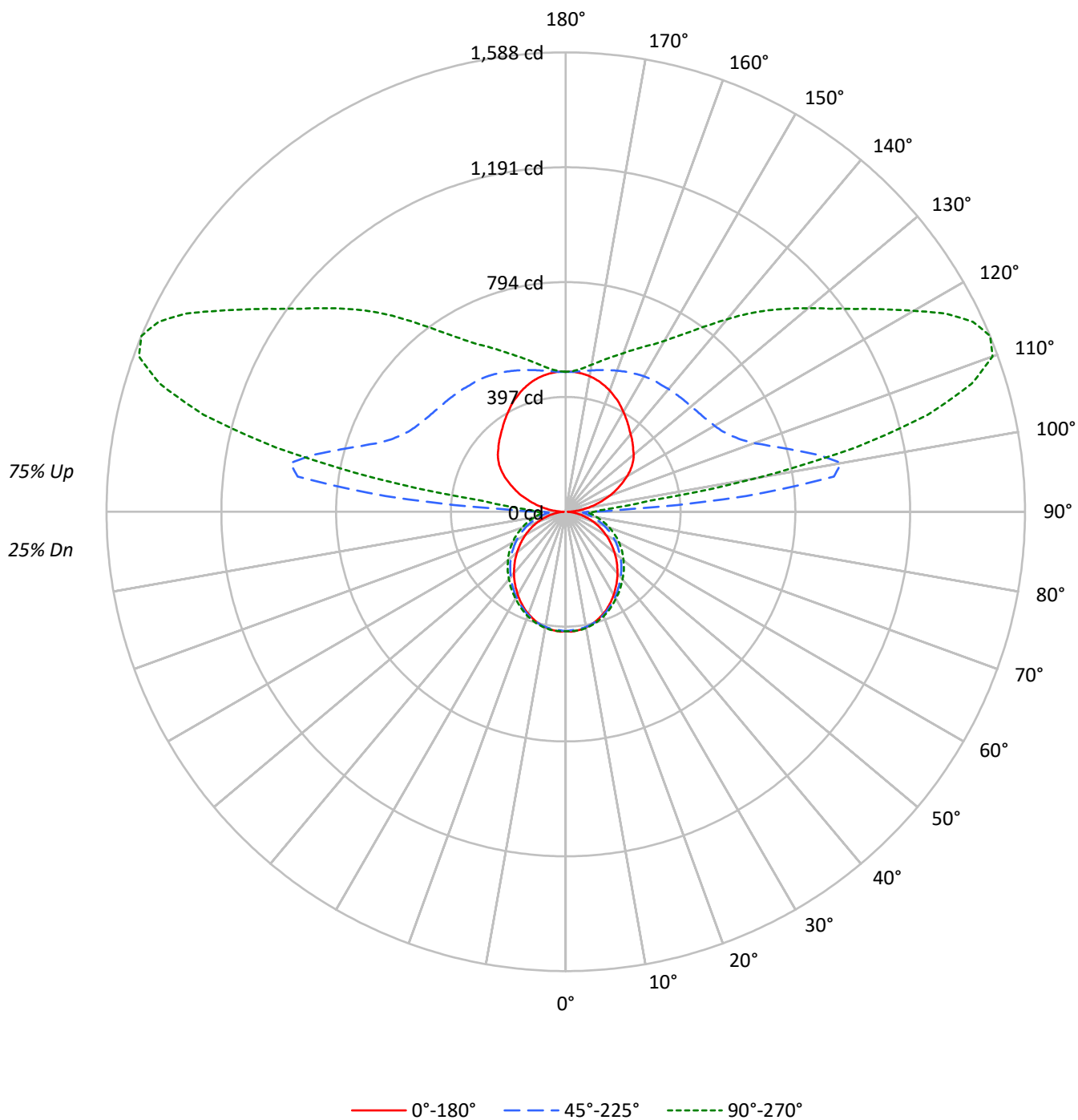
Lumens per Lamp: N/A
Luminaire Lumens: 5038.4 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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: P1011462

CATALOG NUMBER: S123DIP-B340D1025UB27-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1011462

CATALOG NUMBER: S123DIP-B340D1025UB27-4F0-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
RCR																	
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33
1	92	87	83	80	81	78	75	72	60	58	56	44	42	41	29	28	27
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	25	24	22
3	76	66	59	54	67	59	53	48	46	42	38	33	31	28	22	20	19
4	69	59	51	45	61	52	46	41	41	36	32	30	26	24	19	18	16
5	63	52	44	38	56	46	40	35	36	31	28	26	23	21	17	15	14
6	58	46	38	33	51	42	35	30	32	27	24	24	20	18	16	14	12
7	54	42	34	29	47	37	31	26	29	24	21	21	18	16	14	12	11
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8
10	43	31	24	20	38	28	22	18	22	18	14	16	13	11	11	9	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: P1011462

CATALOG NUMBER: S123DIP-B340D1025UB27-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.8
10°-20°	111.6	2.2
20°-30°	166.9	3.3
30°-40°	199.3	4.0
40°-50°	208.5	4.1
50°-60°	195.6	3.9
60°-70°	163.4	3.2
70°-80°	116.9	2.3
80°-90°	72.2	1.4
90°-100°	318.7	6.3
100°-110°	800.8	15.9
110°-120°	771.0	15.3
120°-130°	609.1	12.1
130°-140°	476.6	9.5
140°-150°	352.6	7.0
150°-160°	245.2	4.9
160°-170°	144.1	2.9
170°-180°	46.9	0.9
0°-30°	317.7	6.3
0°-40°	516.9	10.3
0°-60°	921.1	18.3
0°-90°	1273.6	25.3
90°-120°	1890.4	37.5
90°-150°	3328.7	66.1
90°-180°	3765.0	74.7
0°-180°	5038.4	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	40	75	94	99	7
95°	38	131	625	228	176	39
105°	117	182	821	1424	1296	124
115°	203	258	626	1356	1554	201
125°	280	331	577	1043	1222	249
135°	328	391	560	853	985	253
145°	374	428	548	692	763	234
155°	424	458	530	602	628	195
165°	463	477	508	538	548	131
175°	483	483	487	494	493	46
180°	484	484	484	484	484	

TEST NUMBER: P1011462

CATALOG NUMBER: S123DIP-B340D1025UB27-4F0-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°	7.8	39.6	75.3	93.6	99.0
92.5°	20.1	83.5	229.4	124.2	118.0
95°	38.2	130.8	625.4	227.8	176.5
97.5°	57.4	144.6	935.2	481.4	293.0
100°	76.5	155.1	966.8	943.6	670.8
102.5°	96.7	167.5	900.5	1242.7	1026.3
105°	117.2	182.4	821.3	1423.7	1296.5
107.5°	138.3	200.2	751.0	1501.4	1471.6
110°	161.4	218.5	693.0	1501.2	1570.4

TEST NUMBER: P1011462

CATALOG NUMBER: S123DIP-B340D1025UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	183.0	237.8	653.1	1442.6	1588.3
115°	203.0	257.9	626.3	1355.7	1553.7
117.5°	223.6	276.7	606.9	1262.8	1482.5
120°	244.8	295.4	594.0	1174.9	1389.2
122.5°	263.4	313.8	584.8	1105.1	1302.3
125°	280.5	331.0	576.7	1042.6	1222.2
127.5°	294.2	348.2	571.5	991.0	1152.9
130°	307.0	363.8	566.3	943.2	1094.8
132.5°	316.3	378.0	563.1	898.4	1038.7
135°	328.1	390.8	559.9	852.6	984.6
137.5°	338.9	401.5	556.1	808.7	928.0
140°	349.2	411.4	553.3	766.2	869.0
142.5°	360.9	419.8	549.6	726.8	813.4
145°	373.6	427.6	547.6	691.8	762.7
147.5°	386.0	436.0	544.7	664.0	719.2
150°	398.7	442.8	540.8	640.2	681.8
152.5°	411.5	450.2	535.9	620.6	651.5
155°	424.2	457.5	530.0	602.5	628.0
157.5°	434.0	463.9	525.1	584.9	605.4
160°	445.7	469.3	519.2	568.7	583.9
162.5°	454.6	473.2	513.3	553.5	564.3
165°	463.4	476.6	507.5	538.3	547.6
167.5°	470.2	479.6	501.6	525.1	531.0
170°	476.1	481.0	495.7	513.3	516.3
172.5°	480.0	482.5	490.8	503.0	502.6
175°	483.0	483.4	486.9	493.7	492.8
177.5°	484.9	483.9	483.9	487.9	485.9
180°	483.9	483.9	483.9	483.9	483.9

(END OF REPORT)