

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: P1011537

Luminaire Tested: S123DIP-B340D1195UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011537
REPORT IS A COMBINATION OF REPORTS P989729 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB40-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

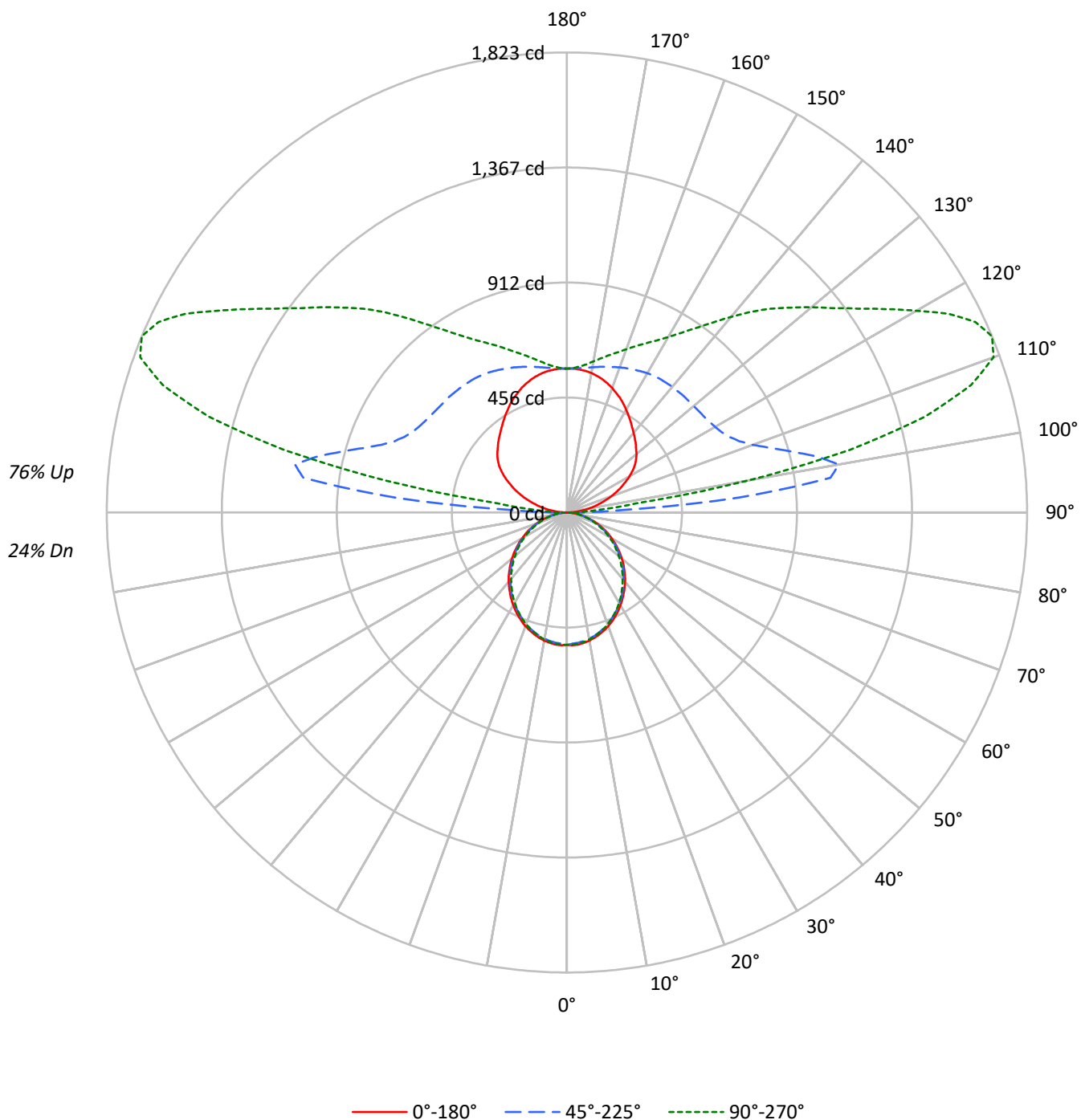
Lumens per Lamp: N/A
Luminaire Lumens: 5668.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1011537

CATALOG NUMBER: S123DIP-B340D1195UB40-4F0-XX-W2A-F4

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32
1	92	88	84	81	82	78	75	72	60	58	56	44	42	41	28	28	27
2	84	77	71	66	74	68	63	59	53	49	47	38	36	34	25	24	23
3	76	67	60	55	68	60	54	49	46	42	39	34	31	29	22	21	19
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17
5	64	53	45	39	56	47	41	36	37	32	28	27	24	21	18	16	14
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	15	13	11
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10
9	46	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9
10	43	32	25	20	38	29	23	18	23	18	15	17	14	12	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5646	5646	5646
5°	5659	5450	5442
10°	5610	5266	5212
15°	5531	5074	4961
20°	5442	4861	4713
25°	5326	4637	4446
30°	5200	4404	4166
35°	5066	4167	3888
40°	4928	3917	3615
45°	4775	3674	3329
50°	4620	3403	3043
55°	4421	3121	2752
60°	4216	2809	2443
65°	4022	2472	2121
70°	3746	2100	1745
75°	3344	1662	1355
80°	2888	1169	958
85°	2257	627	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4775 cd/sqm

TEST NUMBER: P1011537

CATALOG NUMBER: S123DIP-B340D1195UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	0.9
10°-20°	139.6	2.5
20°-30°	206.2	3.6
30°-40°	240.8	4.2
40°-50°	242.1	4.3
50°-60°	212.7	3.8
60°-70°	158.4	2.8
70°-80°	90.1	1.6
80°-90°	28.8	0.5
90°-100°	324.1	5.7
100°-110°	905.8	16.0
110°-120°	883.3	15.6
120°-130°	703.3	12.4
130°-140°	555.2	9.8
140°-150°	414.2	7.3
150°-160°	289.0	5.1
160°-170°	169.8	3.0
170°-180°	55.2	1.0
0°-30°	395.3	7.0
0°-40°	636.1	11.2
0°-60°	1090.8	19.2
0°-90°	1368.2	24.1
90°-120°	2113.2	37.3
90°-150°	3785.9	66.8
90°-180°	4300.0	75.9
0°-180°	5668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	525	523	518	522	521	50
15°	500	498	492	496	493	141
25°	454	451	445	446	444	209
35°	392	390	384	381	379	245
45°	322	320	314	308	306	248
55°	244	244	238	233	230	219
65°	166	164	160	156	155	164
75°	88	86	85	82	81	94
85°	24	22	22	22	22	25
90°	2	14	29	32	34	5
95°	39	128	685	200	134	42
105°	134	198	928	1623	1468	142
115°	237	295	710	1557	1786	234
125°	329	388	663	1201	1408	292
135°	386	460	653	989	1142	298
145°	440	504	645	811	892	276
155°	500	539	625	710	740	230
165°	546	562	598	634	645	154
175°	569	570	574	582	581	54
180°	570	570	570	570	570	

TEST NUMBER: P1011537

CATALOG NUMBER: S123DIP-B340D1195UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	524.5	524.5	524.5	524.5	524.5
2.5°	526.7	524.9	520.0	524.5	524.0
5°	524.9	522.7	517.7	522.2	521.3
7.5°	520.9	518.6	513.7	517.7	517.3
10°	515.5	513.2	507.3	511.4	510.5
12.5°	508.2	506.4	501.0	503.7	503.3
15°	499.7	497.9	492.0	495.6	492.9
17.5°	490.2	488.0	482.1	484.8	483.9
20°	479.4	476.7	470.8	472.6	471.3
22.5°	467.2	464.5	458.6	460.0	458.2
25°	453.7	451.0	445.1	445.6	444.2
27.5°	439.7	437.0	430.7	431.1	429.8
30°	424.4	422.1	415.8	415.8	412.6
32.5°	409.0	405.9	401.4	398.2	396.9
35°	392.3	389.6	383.8	381.1	378.8
37.5°	375.7	372.1	366.2	363.0	361.7
40°	358.1	355.4	349.1	345.4	343.6
42.5°	340.5	337.3	331.0	327.4	325.6
45°	321.5	319.7	313.9	308.5	306.2
47.5°	303.1	300.3	294.9	289.5	287.7
50°	284.1	281.9	276.0	271.0	268.3
52.5°	264.3	262.9	256.6	252.5	249.8
55°	244.0	243.5	237.7	232.7	230.4
57.5°	225.0	223.2	218.7	214.2	211.5
60°	204.3	203.8	198.4	194.4	192.1
62.5°	185.8	184.4	179.0	175.0	173.6
65°	166.4	164.2	159.6	156.0	154.7
67.5°	145.7	143.9	140.3	137.1	135.3
70°	127.2	124.5	121.8	118.6	116.4
72.5°	107.8	106.0	102.8	100.1	99.2
75°	87.9	86.1	84.8	82.5	81.2
77.5°	70.4	69.5	67.6	65.8	65.8
80°	53.2	51.9	51.0	50.5	50.5
82.5°	36.5	36.5	36.5	35.6	35.2
85°	23.5	22.5	22.5	21.6	21.6
87.5°	11.7	10.4	9.9	9.5	9.5
90°	2.3	13.8	28.9	32.4	33.5
92.5°	17.3	69.3	214.7	73.3	61.2
95°	39.3	127.6	684.6	199.7	133.9
97.5°	62.3	146.0	1052.9	502.2	274.8
100°	85.4	161.0	1093.3	1050.6	723.8
102.5°	109.7	178.4	1018.2	1406.7	1146.4
105°	133.9	198.0	928.2	1623.2	1468.5
107.5°	159.3	221.0	848.5	1718.4	1678.6
110°	187.0	244.8	782.7	1721.3	1798.6

TEST NUMBER: P1011537

CATALOG NUMBER: S123DIP-B340D1195UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.4	269.6	738.8	1656.0	1822.9
115°	236.7	295.0	710.0	1556.8	1785.9
117.5°	260.9	319.2	690.4	1450.6	1705.1
120°	286.3	343.4	677.7	1350.1	1598.9
122.5°	308.2	366.6	669.6	1271.1	1499.6
125°	329.0	388.5	662.7	1200.6	1408.4
127.5°	345.2	409.2	659.2	1142.9	1329.9
130°	360.2	427.7	655.7	1089.8	1265.3
132.5°	371.7	444.5	654.6	1040.2	1201.8
135°	385.6	460.0	653.4	988.8	1141.8
137.5°	398.3	472.8	651.1	940.3	1078.3
140°	411.0	484.3	650.0	893.0	1011.3
142.5°	424.8	494.7	647.6	849.7	949.0
145°	439.8	503.9	645.3	811.0	892.4
147.5°	454.9	513.8	641.9	781.0	843.9
150°	469.9	521.8	637.3	754.4	802.3
152.5°	484.9	530.5	631.5	731.4	767.7
155°	499.9	539.1	624.6	710.0	740.0
157.5°	511.4	546.6	618.8	689.2	713.5
160°	525.3	553.0	611.9	670.2	688.1
162.5°	535.7	557.6	604.9	652.2	665.0
165°	546.1	561.7	598.0	634.4	645.3
167.5°	554.1	565.1	591.1	618.8	625.7
170°	561.1	566.8	584.2	605.0	608.4
172.5°	565.7	568.6	578.4	592.8	592.2
175°	569.1	569.7	573.8	581.8	580.7
177.5°	571.5	570.3	570.3	574.9	572.6
180°	570.3	570.3	570.3	570.3	570.3

(END OF REPORT)