

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: P1011534

Luminaire Tested: S123DIP-B340D1195UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011534
REPORT IS A COMBINATION OF REPORTS P989726 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-D4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

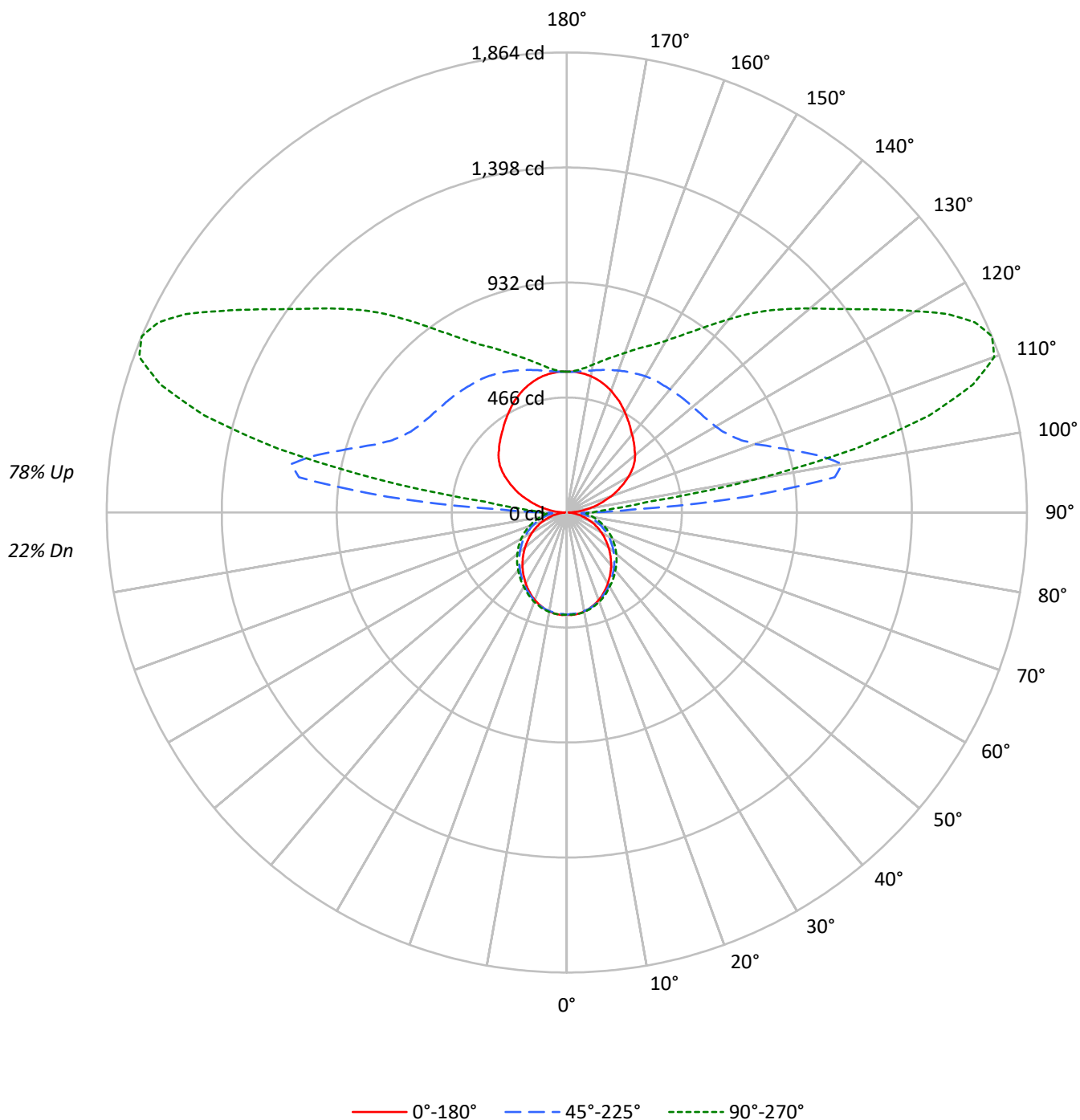
Lumens per Lamp: N/A
Luminaire Lumens: 5694.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4455	4455	4455
5°	4467	4324	4321
10°	4426	4207	4175
15°	4367	4078	4021
20°	4284	3934	3855
25°	4182	3771	3683
30°	4076	3624	3510
35°	3960	3471	3369
40°	3847	3329	3220
45°	3723	3193	3098
50°	3600	3058	2965
55°	3464	2919	2844
60°	3330	2776	2718
65°	3193	2625	2572
70°	2986	2456	2420
75°	2727	2262	2264
80°	2421	2068	2086
85°	2123	1908	1959

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3723 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	0.7
10°-20°	111.9	2.0
20°-30°	167.4	2.9
30°-40°	199.8	3.5
40°-50°	209.1	3.7
50°-60°	196.2	3.4
60°-70°	163.9	2.9
70°-80°	117.2	2.1
80°-90°	72.9	1.3
90°-100°	367.9	6.5
100°-110°	938.0	16.5
110°-120°	904.8	15.9
120°-130°	715.6	12.6
130°-140°	560.7	9.8
140°-150°	415.4	7.3
150°-160°	289.0	5.1
160°-170°	169.8	3.0
170°-180°	55.2	1.0
0°-30°	318.6	5.6
0°-40°	518.4	9.1
0°-60°	923.7	16.2
0°-90°	1277.7	22.4
90°-120°	2210.7	38.8
90°-150°	3902.4	68.5
90°-180°	4416.0	77.6
0°-180°	5694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	414	413	411	414	414	39
15°	394	396	395	400	400	111
25°	356	361	362	368	368	164
35°	307	314	320	326	328	192
45°	251	262	273	281	285	193
55°	191	206	222	234	238	171
65°	132	150	170	183	188	131
75°	72	93	115	130	136	77
85°	22	45	68	84	88	23
90°	8	42	80	99	104	7
95°	44	150	729	258	197	45
105°	138	212	962	1670	1519	146
115°	239	303	734	1592	1824	237
125°	330	390	677	1225	1436	294
135°	386	461	659	1002	1158	299
145°	440	504	645	815	898	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	413.9	413.9	413.9	413.9	413.9
2.5°	416.1	414.8	411.2	414.8	414.3
5°	414.3	413.4	410.7	414.3	413.9
7.5°	411.2	411.2	408.5	413.0	412.5
10°	406.7	407.6	405.3	409.8	408.9
12.5°	401.3	402.6	401.3	405.3	404.4
15°	394.5	395.9	395.4	399.9	399.5
17.5°	386.4	389.1	388.6	392.7	391.8
20°	377.4	380.1	381.0	385.0	385.5
22.5°	367.9	370.6	372.0	377.4	376.9
25°	356.2	360.7	362.0	367.9	367.9
27.5°	344.9	349.9	352.6	357.5	358.0
30°	332.7	338.6	342.2	347.6	347.6
32.5°	319.2	326.0	330.9	336.8	338.1
35°	306.6	313.8	319.7	326.4	328.2
37.5°	293.1	301.2	307.9	315.6	317.0
40°	279.5	287.7	296.7	304.3	306.1
42.5°	264.7	275.0	284.5	293.1	295.8
45°	250.7	261.5	272.8	281.3	284.9
47.5°	235.8	248.0	260.6	270.1	272.8
50°	221.4	234.0	248.0	258.3	261.5
52.5°	206.0	219.6	235.4	246.2	250.2
55°	191.2	206.0	222.3	234.4	238.1
57.5°	176.7	192.1	209.7	221.8	225.9
60°	161.4	177.6	196.1	208.7	213.7
62.5°	147.0	163.7	183.5	196.1	200.6
65°	132.1	149.7	169.5	183.1	187.6
67.5°	117.2	135.7	155.5	170.4	174.0
70°	101.4	120.8	142.5	156.9	161.4
72.5°	87.0	106.4	128.9	143.8	148.3
75°	71.7	92.9	115.4	130.3	135.7
77.5°	58.6	79.8	102.3	118.1	122.2
80°	44.6	66.7	90.2	105.5	110.0
82.5°	32.5	55.0	78.9	94.2	98.7
85°	22.1	44.6	68.5	83.9	88.4
87.5°	13.5	36.1	59.1	74.4	78.9
90°	8.2	41.8	79.8	98.6	104.3
92.5°	22.7	94.1	262.0	135.5	127.5
95°	44.3	150.1	729.2	258.3	197.0
97.5°	66.8	166.8	1094.8	557.7	334.8
100°	89.5	179.6	1132.5	1102.8	780.6
102.5°	113.3	194.6	1054.7	1455.8	1200.1
105°	137.5	212.4	962.0	1669.6	1519.0
107.5°	162.5	233.6	879.6	1761.7	1725.9
110°	189.7	255.6	811.6	1761.9	1842.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.1	278.6	765.0	1693.5	1864.4
115°	239.0	302.6	733.9	1591.5	1824.2
117.5°	263.2	325.1	711.6	1482.6	1740.7
120°	288.1	347.6	696.6	1379.4	1631.4
122.5°	310.0	369.2	686.3	1297.6	1529.4
125°	330.4	389.9	677.1	1224.6	1435.5
127.5°	346.6	410.2	671.4	1164.1	1354.2
130°	361.6	428.6	665.6	1108.3	1286.5
132.5°	372.6	445.4	662.3	1056.0	1220.7
135°	386.5	460.6	658.8	1002.3	1157.6
137.5°	399.2	473.2	654.7	951.1	1091.4
140°	411.5	484.8	651.8	901.6	1022.1
142.5°	425.3	494.7	647.6	855.6	957.1
145°	440.3	503.9	645.3	814.6	897.8
147.5°	454.9	513.8	641.9	782.4	847.1
150°	469.9	521.8	637.3	754.4	803.2
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)