

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: P1011533

Luminaire Tested: S123DIP-B340D1195UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011533
REPORT IS A COMBINATION OF REPORTS P989725 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-D1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

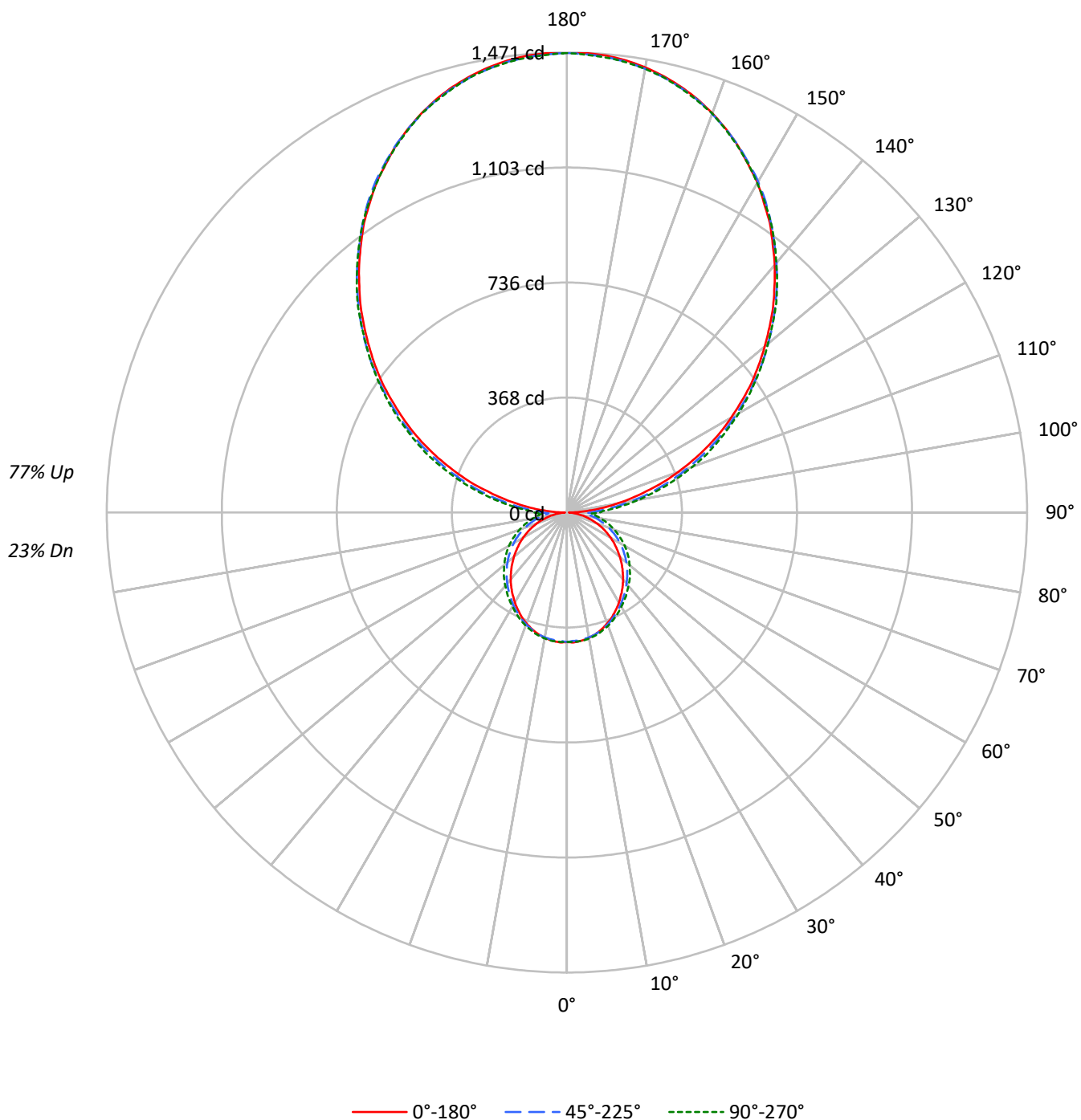
Lumens per Lamp: N/A
Luminaire Lumens: 5466.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	90	90	90	90	69	69	69	49	49	49	32	32	32
1	91	87	83	79	81	77	74	71	59	57	55	42	41	40	27	26	26
2	83	76	70	64	73	67	62	58	51	48	45	37	35	33	24	22	21
3	75	66	59	53	67	59	53	48	45	41	38	32	30	28	21	19	18
4	69	58	51	45	61	52	45	40	40	35	32	29	26	23	18	17	15
5	63	52	44	38	56	46	39	34	36	31	27	26	23	20	16	15	13
6	58	46	38	33	51	41	34	30	32	27	23	23	20	17	15	13	11
7	53	41	34	28	47	37	30	26	29	24	20	21	18	15	14	12	10
8	49	37	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9
9	46	34	27	22	41	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	11	9	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	3.1
30°-40°	199.8	3.7
40°-50°	209.1	3.8
50°-60°	196.2	3.6
60°-70°	163.9	3.0
70°-80°	117.2	2.1
80°-90°	72.8	1.3
90°-100°	138.4	2.5
100°-110°	318.5	5.8
110°-120°	509.0	9.3
120°-130°	653.5	12.0
130°-140°	726.3	13.3
140°-150°	709.8	13.0
150°-160°	596.6	10.9
160°-170°	397.2	7.3
170°-180°	139.1	2.5
0°-30°	318.6	5.8
0°-40°	518.4	9.5
0°-60°	923.7	16.9
0°-90°	1277.6	23.4
90°-120°	965.9	17.7
90°-150°	3055.5	55.9
90°-180°	4188.0	76.6
0°-180°	5466.0	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°	7	41	79	99	105	9
95°	73	99	130	149	153	79
105°	263	276	306	319	325	282
115°	493	502	516	528	530	488
125°	719	723	734	738	737	642
135°	932	939	943	946	946	719
145°	1131	1132	1136	1138	1136	706
155°	1294	1294	1295	1300	1292	596
165°	1410	1406	1406	1413	1405	398
175°	1466	1462	1462	1468	1460	139
180°	1470	1470	1470	1470	1470	

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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°	7.1	40.7	78.6	98.6	105.4
92.5°	40.0	66.4	95.8	114.1	115.9
95°	73.1	98.7	130.0	148.6	153.1
97.5°	116.5	138.4	166.6	185.9	189.3
100°	161.1	182.4	208.9	225.5	232.3
102.5°	212.5	228.6	257.0	273.1	276.5
105°	263.3	276.5	306.2	318.8	325.2
107.5°	323.0	333.5	356.6	372.3	375.2
110°	377.9	388.3	408.7	425.0	426.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.6	443.1	460.3	477.2	481.3
115°	492.9	501.8	515.7	527.6	530.1
117.5°	551.8	556.6	569.5	580.3	580.5
120°	605.6	614.8	623.8	633.1	633.9
122.5°	662.1	667.6	679.3	685.8	685.5
125°	719.4	722.9	733.6	738.5	737.1
127.5°	772.5	779.0	788.0	790.0	788.5
130°	825.6	834.4	839.9	843.9	838.5
132.5°	878.3	887.5	892.0	894.3	891.6
135°	932.5	939.0	942.8	946.3	946.3
137.5°	982.1	987.5	994.1	995.5	994.3
140°	1033.7	1039.5	1041.9	1047.6	1041.7
142.5°	1081.0	1086.3	1088.6	1093.4	1089.8
145°	1130.7	1132.5	1135.9	1138.4	1135.6
147.5°	1172.9	1177.5	1181.0	1182.4	1177.2
150°	1217.9	1220.2	1222.5	1222.5	1216.5
152.5°	1254.8	1258.3	1259.5	1261.8	1256.0
155°	1294.1	1294.1	1295.2	1299.9	1291.8
157.5°	1327.6	1326.4	1327.6	1332.2	1325.3
160°	1358.7	1356.4	1356.4	1362.2	1357.6
162.5°	1386.4	1383.0	1384.1	1389.9	1381.8
165°	1409.5	1406.1	1406.1	1413.0	1404.9
167.5°	1429.2	1424.5	1425.7	1432.6	1425.7
170°	1445.3	1440.7	1440.7	1448.8	1440.7
172.5°	1458.0	1453.4	1453.4	1460.3	1452.2
175°	1466.1	1461.5	1461.5	1468.4	1460.3
177.5°	1470.7	1466.1	1466.1	1473.0	1464.9
180°	1469.6	1469.6	1469.6	1469.6	1469.6

(END OF REPORT)