

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: P1010567

Luminaire Tested: S123DIP-B340D1195UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010567
REPORT IS A COMBINATION OF REPORTS P989696 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB2750-4F0-XX-W2A-D_4000K
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

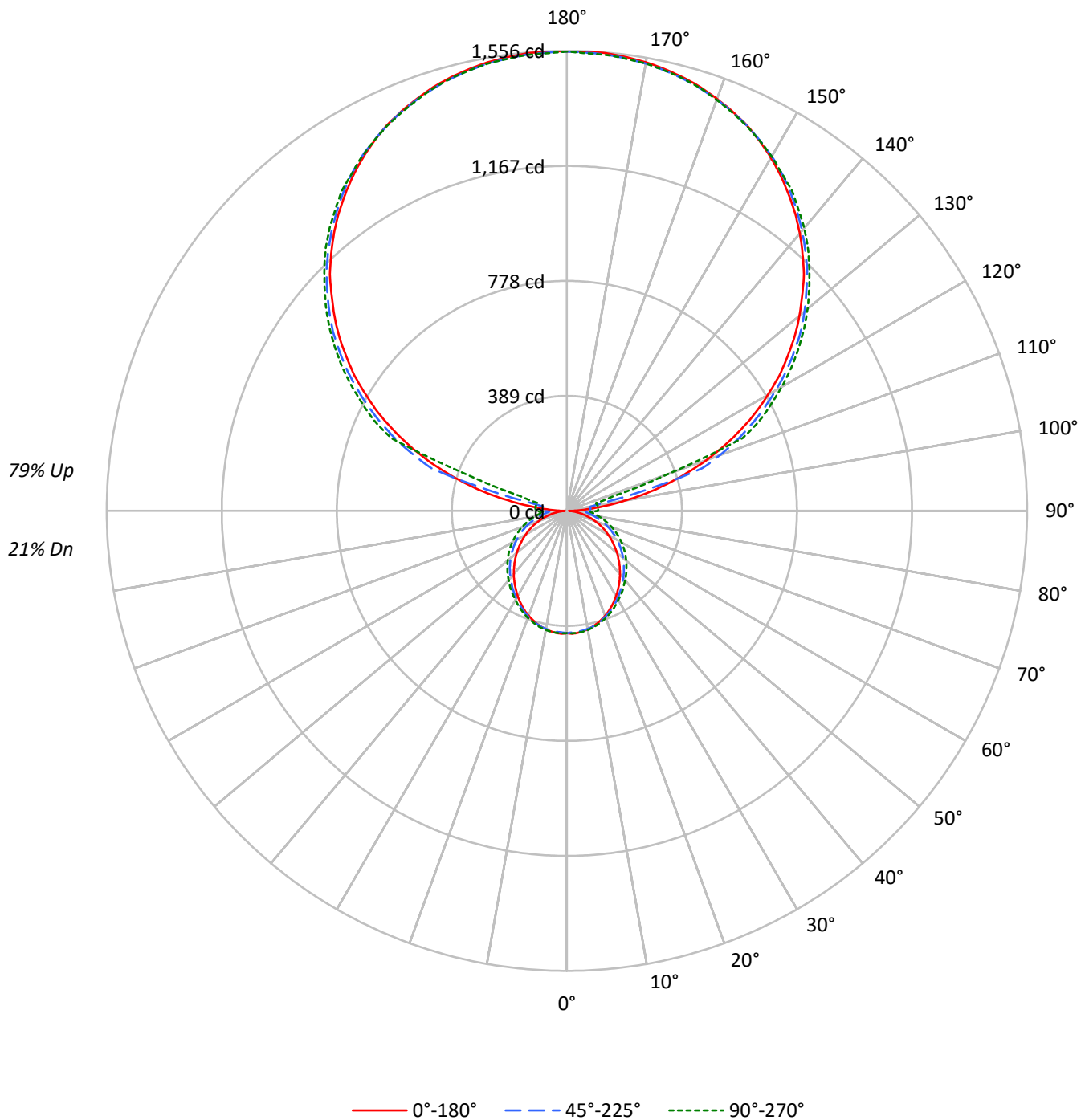
Lumens per Lamp: N/A
Luminaire Lumens: 6131.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	100	100	100	100	89	89	89	89	67	67	67		47	47	47		29
1	91	86	83	79	80	77	73	70	58	56	54		41	40	38		25
2	82	75	69	64	73	67	62	57	50	47	44		36	34	32		22
3	75	66	59	53	66	58	52	48	44	40	37		31	29	27		19
4	68	58	50	45	60	52	45	40	39	35	31		28	25	23		17
5	63	51	44	38	55	46	39	34	35	30	27		25	22	19		15
6	58	46	38	33	51	41	34	29	31	26	23		22	19	17		14
7	53	41	34	28	47	37	30	25	28	23	20		20	17	15		13
8	49	37	30	25	43	33	27	22	25	21	18		18	15	13		11
9	46	34	27	22	40	30	24	20	23	19	16		17	14	11		11
10	42	31	24	19	37	28	21	17	21	17	14		15	12	10		10

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	0.6
10°-20°	111.9	1.8
20°-30°	167.4	2.7
30°-40°	199.8	3.3
40°-50°	209.1	3.4
50°-60°	196.2	3.2
60°-70°	163.9	2.7
70°-80°	117.2	1.9
80°-90°	72.8	1.2
90°-100°	98.6	1.6
100°-110°	297.1	4.8
110°-120°	670.7	10.9
120°-130°	836.4	13.6
130°-140°	885.9	14.4
140°-150°	824.4	13.4
150°-160°	664.0	10.8
160°-170°	428.5	7.0
170°-180°	147.7	2.4
0°-30°	318.6	5.2
0°-40°	518.4	8.5
0°-60°	923.7	15.1
0°-90°	1277.6	20.8
90°-120°	1066.4	17.4
90°-150°	3613.1	58.9
90°-180°	4853.0	79.2
0°-180°	6131.0	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	8
95°	75	46	80	102	107	88
105°	348	371	287	95	101	368
115°	648	660	686	709	717	640
125°	911	920	938	950	955	814
135°	1133	1140	1149	1161	1160	873
145°	1307	1315	1317	1323	1325	818
155°	1440	1437	1438	1444	1437	663
165°	1518	1515	1513	1523	1515	429
175°	1554	1548	1549	1557	1548	148
180°	1554	1554	1554	1554	1554	

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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°	32.0	44.4	77.3	100.3	105.5
95°	75.4	45.6	80.4	102.5	107.0
97.5°	132.6	116.5	78.8	101.7	107.3
100°	199.2	236.7	77.3	99.6	105.3
102.5°	274.9	302.5	121.9	96.4	103.3
105°	347.6	371.1	286.6	94.9	101.3
107.5°	424.6	444.3	480.2	314.6	167.4
110°	501.4	518.7	549.5	523.1	361.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	575.3	589.7	619.6	641.1	642.9
115°	647.6	659.9	686.5	708.9	717.1
117.5°	719.2	730.9	751.9	772.0	776.7
120°	784.5	797.2	815.4	835.1	838.3
122.5°	851.4	860.4	879.0	894.7	899.1
125°	911.1	920.3	937.9	949.7	955.2
127.5°	971.1	979.8	996.9	1009.4	1010.1
130°	1026.5	1035.2	1048.8	1062.1	1062.5
132.5°	1079.1	1088.3	1098.6	1111.3	1110.9
135°	1133.4	1139.9	1149.4	1161.0	1159.8
137.5°	1179.5	1188.4	1193.8	1206.7	1206.7
140°	1225.3	1232.2	1237.0	1248.4	1248.3
142.5°	1268.0	1274.4	1277.9	1287.3	1286.0
145°	1307.3	1314.8	1317.2	1323.1	1324.9
147.5°	1344.9	1350.6	1352.9	1356.6	1352.7
150°	1379.5	1383.0	1385.3	1387.6	1385.0
152.5°	1410.7	1411.8	1413.0	1417.6	1411.8
155°	1439.5	1437.2	1438.4	1444.1	1437.2
157.5°	1462.6	1462.6	1461.5	1468.4	1459.1
160°	1483.4	1482.2	1481.1	1488.0	1479.9
162.5°	1503.0	1499.5	1498.4	1506.5	1499.5
165°	1518.0	1514.6	1513.4	1522.6	1514.6
167.5°	1530.7	1526.1	1526.1	1535.3	1526.1
170°	1541.1	1536.5	1536.5	1545.7	1536.5
172.5°	1548.0	1542.3	1543.4	1552.6	1542.3
175°	1553.8	1548.0	1549.2	1557.3	1548.0
177.5°	1556.1	1550.3	1551.5	1560.7	1549.2
180°	1553.8	1553.8	1553.8	1553.8	1553.8

(END OF REPORT)