

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: P1011505

Luminaire Tested: S123DIP-B340D1195UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011505
REPORT IS A COMBINATION OF REPORTS P989682 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB27-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

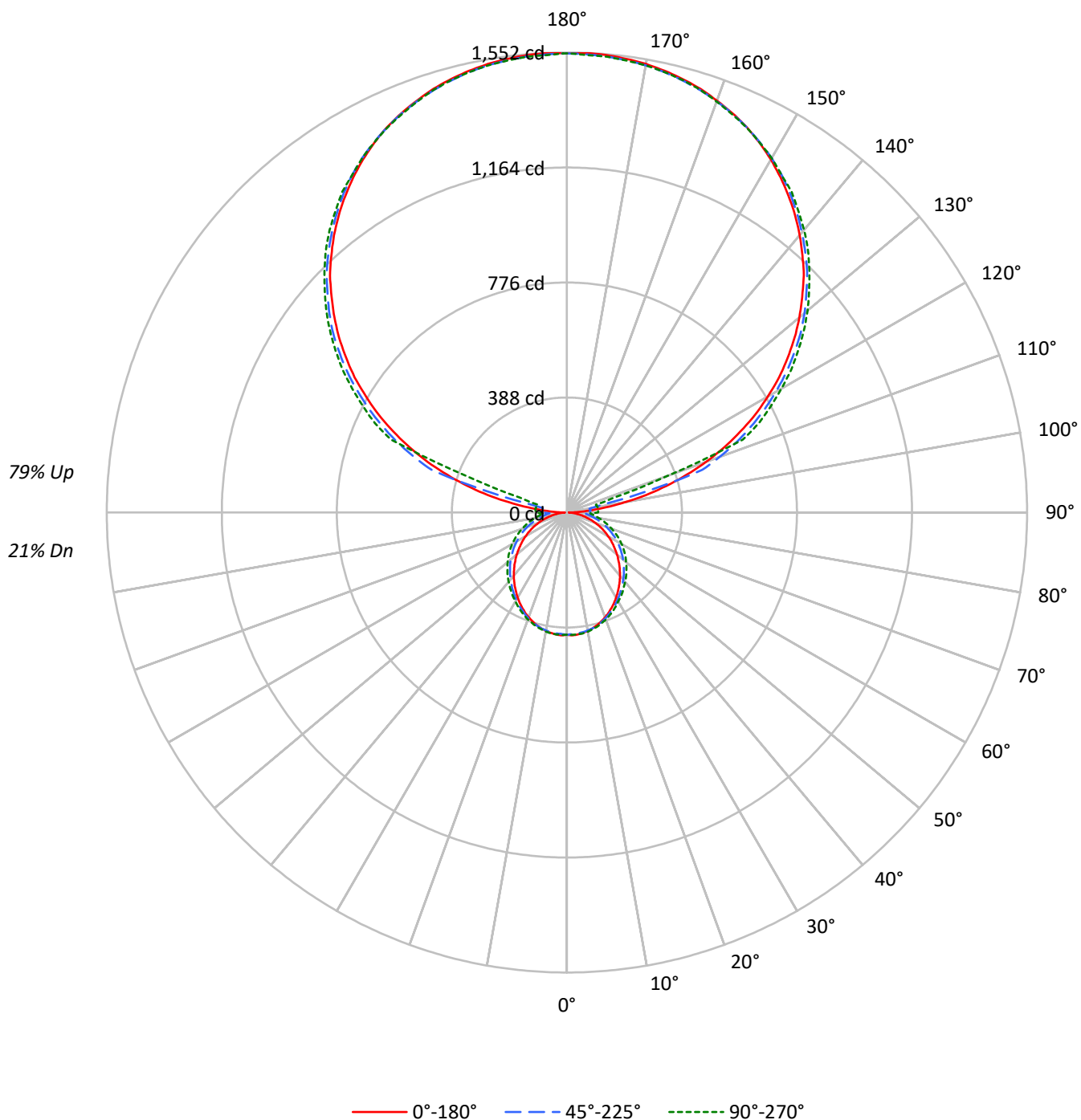
Lumens per Lamp: N/A
Luminaire Lumens: 6113.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.6
10°-20°	111.6	1.8
20°-30°	166.9	2.7
30°-40°	199.3	3.3
40°-50°	208.5	3.4
50°-60°	195.6	3.2
60°-70°	163.4	2.7
70°-80°	116.9	1.9
80°-90°	72.6	1.2
90°-100°	98.3	1.6
100°-110°	296.3	4.8
110°-120°	668.7	10.9
120°-130°	833.9	13.6
130°-140°	883.3	14.4
140°-150°	822.0	13.4
150°-160°	662.1	10.8
160°-170°	427.3	7.0
170°-180°	147.2	2.4
0°-30°	317.7	5.2
0°-40°	516.9	8.5
0°-60°	921.1	15.1
0°-90°	1274.0	20.8
90°-120°	1063.3	17.4
90°-150°	3602.4	58.9
90°-180°	4839.0	79.2
0°-180°	6113.0	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°	7	41	78	98	105	8
95°	75	46	80	102	107	88
105°	347	370	286	95	101	367
115°	646	658	684	707	715	638
125°	908	918	935	947	952	812
135°	1130	1136	1146	1158	1156	870
145°	1303	1311	1313	1319	1321	816
155°	1435	1433	1434	1440	1433	661
165°	1514	1510	1509	1518	1510	428
175°	1549	1544	1545	1553	1544	147
180°	1549	1549	1549	1549	1549	

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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°	7.0	40.6	78.4	98.3	105.1
92.5°	31.9	44.3	77.1	100.0	105.2
95°	75.1	45.5	80.2	102.1	106.6
97.5°	132.3	116.2	78.6	101.3	107.0
100°	198.5	235.9	77.1	99.3	104.9
102.5°	274.1	301.6	121.6	96.2	103.0
105°	346.6	370.1	285.8	94.6	101.0
107.5°	423.2	443.1	478.7	313.7	166.9
110°	499.9	517.2	547.9	521.6	360.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	573.6	587.9	617.7	639.3	641.1
115°	645.6	657.9	684.5	706.8	715.0
117.5°	717.0	728.6	749.7	769.7	774.4
120°	782.2	794.7	813.1	832.6	835.8
122.5°	848.9	857.9	876.4	892.0	896.4
125°	908.3	917.5	935.2	946.9	952.4
127.5°	968.1	976.9	993.9	1006.3	1007.2
130°	1023.4	1032.2	1045.8	1058.9	1059.3
132.5°	1075.9	1085.1	1095.3	1108.0	1107.7
135°	1130.0	1136.4	1146.0	1157.6	1156.3
137.5°	1176.0	1184.8	1190.3	1203.2	1203.1
140°	1221.6	1228.5	1233.3	1244.6	1244.6
142.5°	1264.2	1270.7	1274.1	1283.4	1282.2
145°	1303.3	1311.0	1313.3	1319.2	1321.0
147.5°	1340.9	1346.6	1348.9	1352.5	1348.6
150°	1375.4	1378.9	1381.2	1383.5	1380.9
152.5°	1406.5	1407.6	1408.8	1413.4	1407.6
155°	1435.3	1433.0	1434.1	1439.9	1433.0
157.5°	1458.3	1458.3	1457.1	1464.0	1454.8
160°	1479.0	1477.9	1476.7	1483.6	1475.6
162.5°	1498.6	1495.1	1494.0	1502.0	1495.1
165°	1513.5	1510.1	1508.9	1518.1	1510.1
167.5°	1526.2	1521.6	1521.6	1530.8	1521.6
170°	1536.6	1531.9	1531.9	1541.2	1531.9
172.5°	1543.5	1537.7	1538.9	1548.1	1537.7
175°	1549.2	1543.5	1544.6	1552.7	1543.5
177.5°	1551.5	1545.8	1546.9	1556.1	1544.6
180°	1549.2	1549.2	1549.2	1549.2	1549.2

(END OF REPORT)