

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: P1011506

Luminaire Tested: S123DIP-B340D1195UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011506
REPORT IS A COMBINATION OF REPORTS P989683 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-D1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

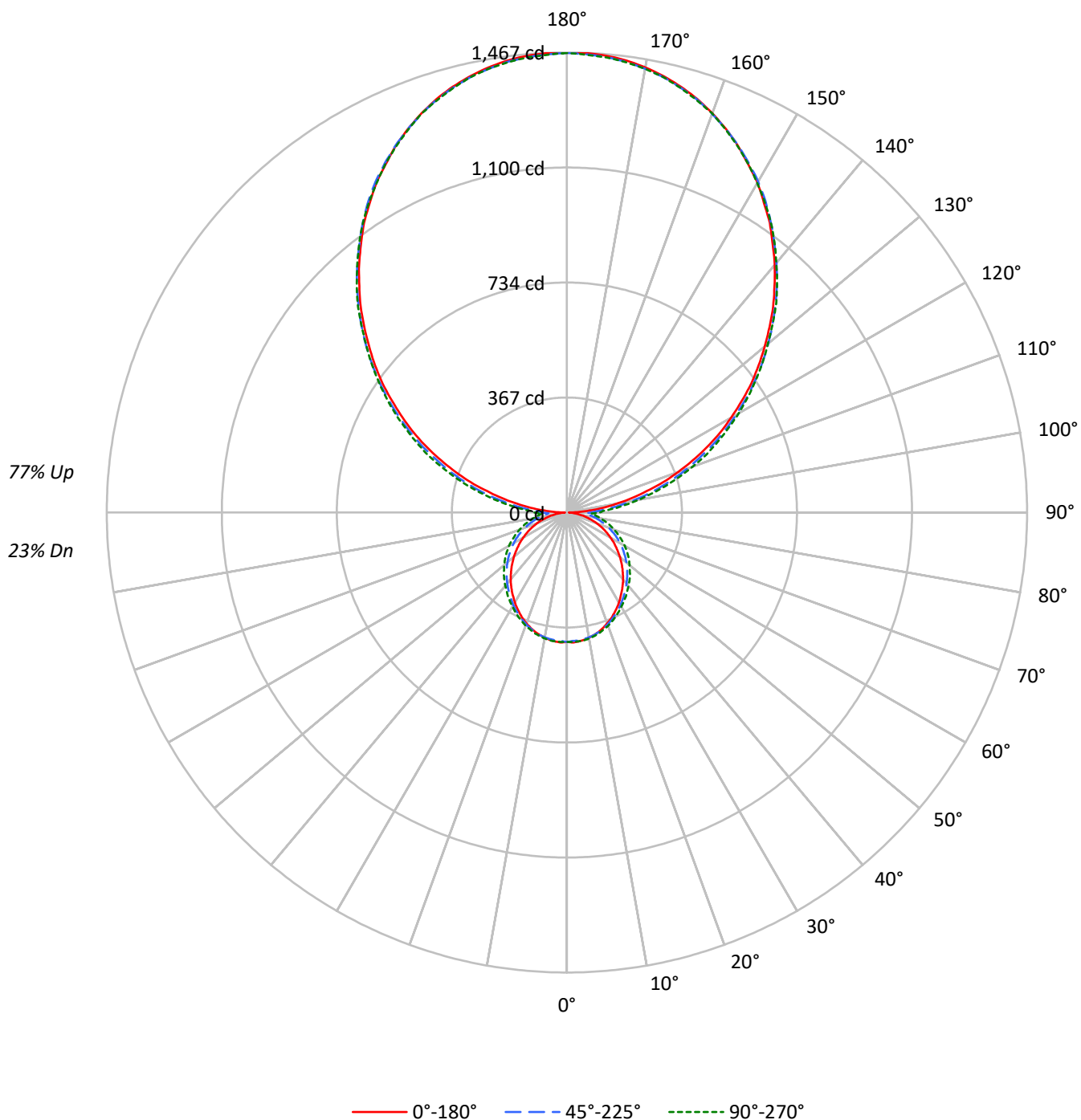
Lumens per Lamp: N/A
Luminaire Lumens: 5451.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	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°	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	0.7
10°-20°	111.6	2.0
20°-30°	166.9	3.1
30°-40°	199.3	3.7
40°-50°	208.5	3.8
50°-60°	195.6	3.6
60°-70°	163.4	3.0
70°-80°	116.9	2.1
80°-90°	72.6	1.3
90°-100°	138.0	2.5
100°-110°	317.7	5.8
110°-120°	507.6	9.3
120°-130°	651.8	12.0
130°-140°	724.3	13.3
140°-150°	707.9	13.0
150°-160°	595.0	10.9
160°-170°	396.1	7.3
170°-180°	138.7	2.5
0°-30°	317.7	5.8
0°-40°	516.9	9.5
0°-60°	921.1	16.9
0°-90°	1274.0	23.4
90°-120°	963.3	17.7
90°-150°	3047.2	55.9
90°-180°	4177.0	76.6
0°-180°	5451.0	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	9
95°	73	98	130	148	153	79
105°	263	276	305	318	324	281
115°	492	500	514	526	529	487
125°	717	721	732	736	735	640
135°	930	936	940	944	944	717
145°	1128	1129	1133	1135	1132	704
155°	1291	1291	1292	1296	1288	594
165°	1406	1402	1402	1409	1401	396
175°	1462	1458	1458	1464	1456	139
180°	1466	1466	1466	1466	1466	

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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°	39.9	66.1	95.6	113.8	115.6
95°	72.8	98.5	129.7	148.2	152.7
97.5°	116.2	138.1	166.1	185.4	188.7
100°	160.6	181.9	208.3	224.8	231.6
102.5°	212.0	228.0	256.3	272.4	275.7
105°	262.6	275.7	305.4	318.0	324.4
107.5°	322.0	332.7	355.7	371.3	374.2
110°	376.9	387.3	407.6	423.9	425.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	434.4	441.9	459.0	475.9	480.0
115°	491.5	500.4	514.3	526.2	528.7
117.5°	550.2	555.0	568.0	578.8	578.9
120°	603.9	613.0	622.2	631.3	632.2
122.5°	660.3	665.8	677.4	683.9	683.6
125°	717.4	720.9	731.7	736.5	735.0
127.5°	770.4	776.9	785.8	787.9	786.5
130°	823.3	832.1	837.7	841.6	836.2
132.5°	875.9	885.1	889.5	891.8	889.3
135°	930.0	936.4	940.3	943.7	943.6
137.5°	979.5	984.8	991.4	992.9	991.6
140°	1030.8	1036.6	1039.1	1044.7	1038.9
142.5°	1078.0	1083.4	1085.7	1090.3	1086.9
145°	1127.5	1129.4	1132.9	1135.3	1132.5
147.5°	1169.7	1174.3	1177.8	1179.1	1174.0
150°	1214.6	1216.9	1219.2	1219.2	1213.2
152.5°	1251.5	1254.9	1256.1	1258.4	1252.6
155°	1290.6	1290.6	1291.8	1296.4	1288.3
157.5°	1324.0	1322.8	1324.0	1328.6	1321.7
160°	1355.1	1352.8	1352.8	1358.5	1353.9
162.5°	1382.7	1379.2	1380.4	1386.2	1378.1
165°	1405.7	1402.3	1402.3	1409.2	1401.1
167.5°	1425.3	1420.7	1421.8	1428.8	1421.8
170°	1441.4	1436.8	1436.8	1444.9	1436.8
172.5°	1454.1	1449.5	1449.5	1456.4	1448.3
175°	1462.1	1457.5	1457.5	1464.4	1456.4
177.5°	1466.7	1462.1	1462.1	1469.1	1461.0
180°	1465.6	1465.6	1465.6	1465.6	1465.6

(END OF REPORT)