

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: P1011542

Luminaire Tested: S123DIP-B340D1195UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011542
REPORT IS A COMBINATION OF REPORTS P989734 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB50-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

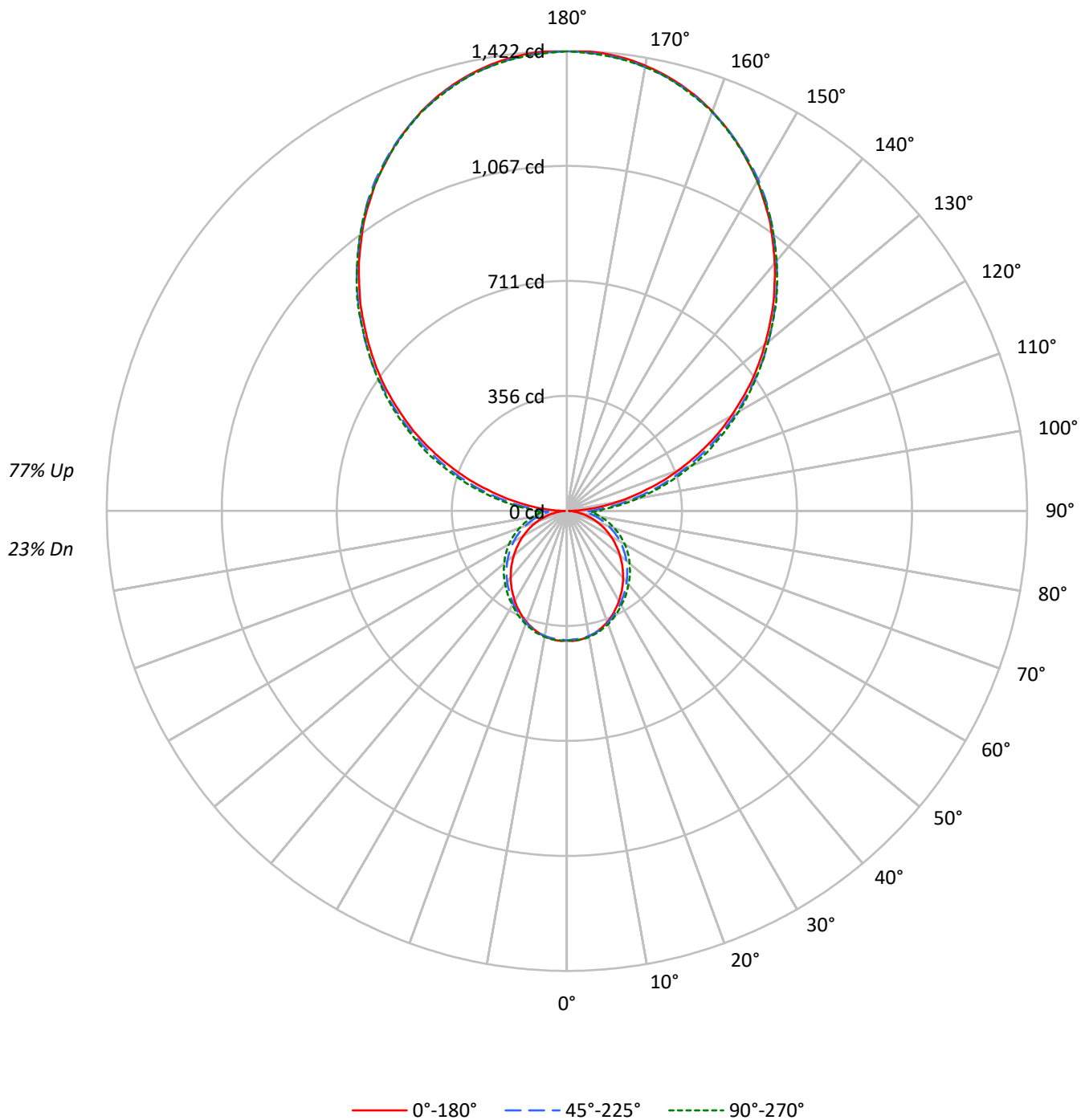
Lumens per Lamp: N/A
Luminaire Lumens: 5287.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1011542

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-D1

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	33	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°	4311	4311	4311
5°	4322	4184	4181
10°	4282	4071	4040
15°	4225	3946	3890
20°	4146	3807	3730
25°	4047	3649	3563
30°	3945	3507	3397
35°	3832	3358	3260
40°	3723	3222	3116
45°	3603	3089	2998
50°	3483	2959	2869
55°	3352	2824	2752
60°	3223	2687	2630
65°	3089	2540	2488
70°	2892	2377	2342
75°	2640	2190	2191
80°	2345	2001	2020
85°	2056	1846	1895

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3603 cd/sqm

TEST NUMBER: P1011542

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	0.7
10°-20°	108.3	2.0
20°-30°	162.0	3.1
30°-40°	193.4	3.7
40°-50°	202.3	3.8
50°-60°	189.9	3.6
60°-70°	158.6	3.0
70°-80°	113.4	2.1
80°-90°	70.5	1.3
90°-100°	133.9	2.5
100°-110°	308.1	5.8
110°-120°	492.2	9.3
120°-130°	632.0	12.0
130°-140°	702.4	13.3
140°-150°	686.4	13.0
150°-160°	577.0	10.9
160°-170°	384.1	7.3
170°-180°	134.5	2.5
0°-30°	308.3	5.8
0°-40°	501.6	9.5
0°-60°	893.8	16.9
0°-90°	1236.3	23.4
90°-120°	934.2	17.7
90°-150°	2955.1	55.9
90°-180°	4051.0	76.6
0°-180°	5287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	401	400	397	401	400	38
15°	382	383	383	387	386	108
25°	345	349	350	356	356	159
35°	297	304	309	316	318	186
45°	243	253	264	272	276	187
55°	185	199	215	227	230	166
65°	128	145	164	177	182	126
75°	69	90	112	126	131	74
85°	21	43	66	81	86	22
90°	7	39	76	95	102	9
95°	71	96	126	144	148	76
105°	255	267	296	308	315	272
115°	477	485	499	510	513	472
125°	696	699	710	714	713	621
135°	902	908	912	915	915	695
145°	1093	1095	1099	1101	1098	683
155°	1252	1252	1253	1257	1249	576
165°	1363	1360	1360	1366	1359	384
175°	1418	1413	1413	1420	1412	135
180°	1421	1421	1421	1421	1421	

TEST NUMBER: P1011542

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.5	400.5	400.5	400.5	400.5
2.5°	402.7	401.4	397.9	401.4	400.9
5°	400.9	400.1	397.4	400.9	400.5
7.5°	397.9	397.9	395.3	399.6	399.2
10°	393.5	394.4	392.2	396.6	395.7
12.5°	388.3	389.6	388.3	392.2	391.3
15°	381.7	383.1	382.6	387.0	386.5
17.5°	373.9	376.5	376.1	380.0	379.1
20°	365.2	367.8	368.7	372.6	373.0
22.5°	356.0	358.6	359.9	365.2	364.7
25°	344.7	349.0	350.3	356.0	356.0
27.5°	333.8	338.6	341.2	346.0	346.4
30°	322.0	327.6	331.1	336.4	336.4
32.5°	308.9	315.4	320.2	325.9	327.2
35°	296.7	303.6	309.3	315.9	317.6
37.5°	283.6	291.4	298.0	305.4	306.7
40°	270.5	278.3	287.1	294.5	296.2
42.5°	256.1	266.1	275.3	283.6	286.2
45°	242.6	253.0	263.9	272.2	275.7
47.5°	228.2	240.0	252.2	261.3	263.9
50°	214.2	226.4	240.0	250.0	253.0
52.5°	199.4	212.5	227.7	238.2	242.1
55°	185.0	199.4	215.1	226.9	230.4
57.5°	171.0	185.9	202.9	214.6	218.6
60°	156.2	171.9	189.8	202.0	206.8
62.5°	142.2	158.4	177.6	189.8	194.1
65°	127.8	144.8	164.0	177.1	181.5
67.5°	113.4	131.3	150.5	164.9	168.4
70°	98.2	116.9	137.9	151.8	156.2
72.5°	84.2	103.0	124.8	139.2	143.5
75°	69.4	89.9	111.7	126.1	131.3
77.5°	56.7	77.2	99.0	114.3	118.2
80°	43.2	64.6	87.3	102.1	106.5
82.5°	31.4	53.2	76.3	91.2	95.5
85°	21.4	43.2	66.3	81.1	85.5
87.5°	13.1	34.9	57.2	72.0	76.3
90°	6.8	39.3	76.1	95.4	102.0
92.5°	38.7	64.2	92.7	110.4	112.1
95°	70.7	95.5	125.8	143.8	148.2
97.5°	112.7	134.0	161.2	179.9	183.0
100°	155.7	176.4	202.1	218.1	224.7
102.5°	205.6	221.1	248.5	264.2	267.4
105°	254.7	267.4	296.2	308.4	314.6
107.5°	312.4	322.6	344.9	360.1	362.9
110°	365.4	375.6	395.2	411.1	412.3

TEST NUMBER: P1011542

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	421.3	428.5	445.1	461.6	465.5
115°	476.7	485.2	498.7	510.3	512.7
117.5°	533.6	538.2	550.8	561.3	561.5
120°	585.6	594.5	603.3	612.3	613.1
122.5°	640.3	645.7	656.9	663.2	662.9
125°	695.7	699.1	709.5	714.2	712.8
127.5°	747.1	753.4	762.1	764.1	762.7
130°	798.4	807.0	812.3	816.2	810.9
132.5°	849.4	858.3	862.6	864.9	862.3
135°	901.9	908.1	911.8	915.2	915.2
137.5°	949.9	955.0	961.4	962.8	961.7
140°	999.6	1005.2	1007.6	1013.1	1007.5
142.5°	1045.4	1050.6	1052.8	1057.4	1054.0
145°	1093.4	1095.2	1098.6	1101.0	1098.2
147.5°	1134.3	1138.8	1142.1	1143.4	1138.5
150°	1177.9	1180.1	1182.3	1182.3	1176.5
152.5°	1213.6	1216.9	1218.0	1220.3	1214.7
155°	1251.5	1251.5	1252.7	1257.1	1249.3
157.5°	1283.9	1282.8	1283.9	1288.4	1281.7
160°	1314.1	1311.8	1311.8	1317.4	1312.9
162.5°	1340.9	1337.5	1338.6	1344.2	1336.4
165°	1363.2	1359.8	1359.8	1366.5	1358.7
167.5°	1382.2	1377.7	1378.8	1385.5	1378.8
170°	1397.8	1393.3	1393.3	1401.1	1393.3
172.5°	1410.1	1405.6	1405.6	1412.3	1404.5
175°	1417.9	1413.4	1413.4	1420.1	1412.3
177.5°	1422.4	1417.9	1417.9	1424.6	1416.8
180°	1421.2	1421.2	1421.2	1421.2	1421.2

(END OF REPORT)