

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: P1011544

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011544
REPORT IS A COMBINATION OF REPORTS P989736 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-F
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

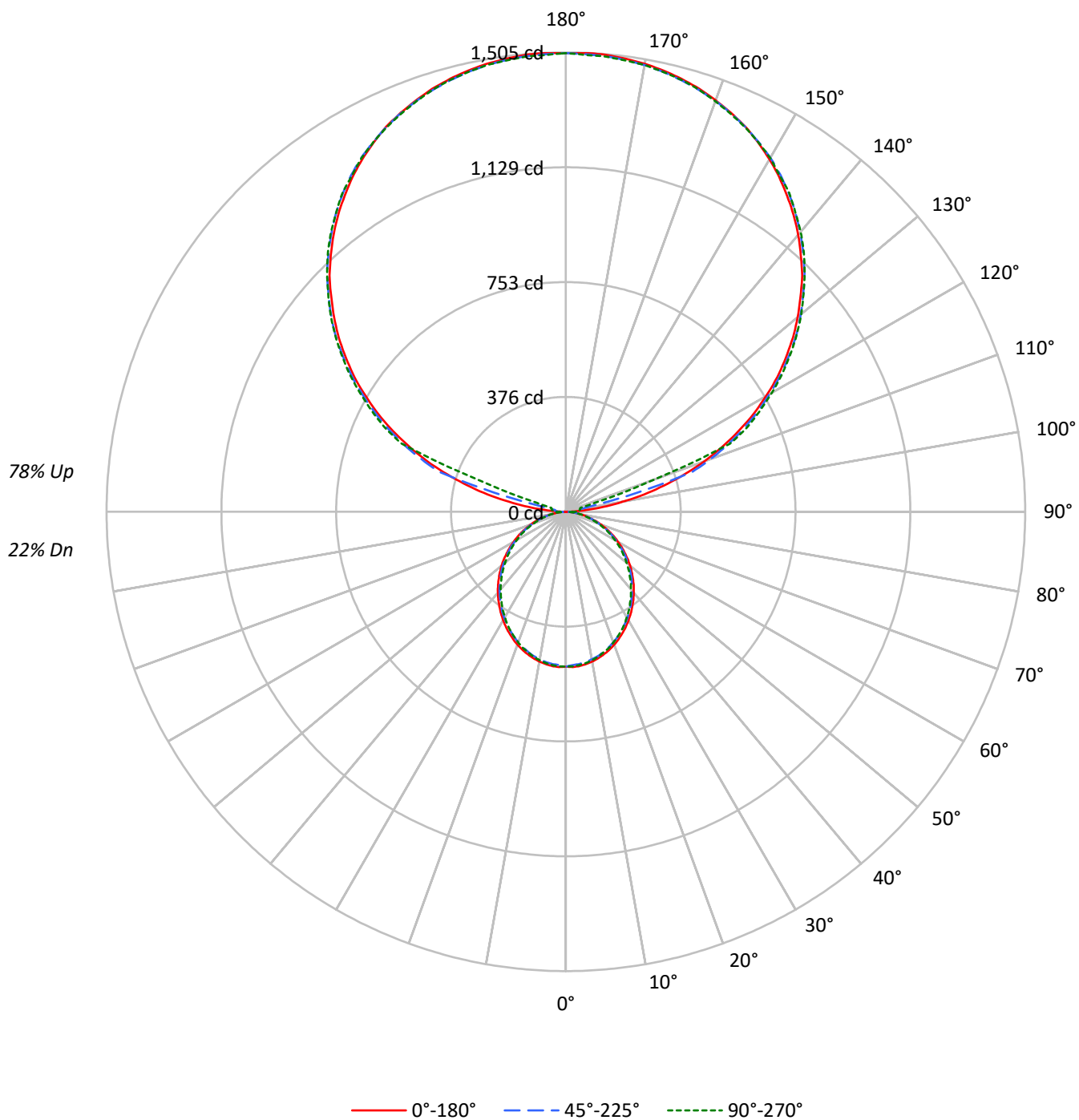
Lumens per Lamp: N/A
Luminaire Lumens: 5904.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
Input Voltage (V):
Input Current (A_{in}): 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: P1011544

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

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	89	89	89	89	68	68	68	49	49	49	31	31	31
1	92	87	84	80	81	78	75	72	59	57	55	43	41	40	27	26	26
2	83	76	70	65	74	68	63	59	52	49	46	37	35	34	24	23	22
3	76	67	60	54	67	60	54	49	46	42	38	33	30	28	21	20	18
4	69	59	52	46	61	53	46	41	41	36	33	29	26	24	19	17	16
5	64	52	45	39	56	47	40	35	36	31	28	26	23	21	17	15	14
6	58	47	39	34	52	42	35	30	32	28	24	24	20	18	15	13	12
7	54	42	35	29	48	38	31	26	29	25	21	21	18	16	14	12	11
8	50	38	31	26	44	34	28	23	27	22	19	19	16	14	13	11	10
9	46	35	27	23	41	31	25	21	24	20	17	18	15	13	12	10	9
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5459	5459	5459
5°	5473	5271	5263
10°	5425	5092	5041
15°	5349	4907	4798
20°	5263	4701	4557
25°	5150	4483	4300
30°	5028	4259	4029
35°	4900	4029	3760
40°	4766	3787	3496
45°	4617	3552	3220
50°	4467	3291	2943
55°	4274	3017	2662
60°	4077	2717	2363
65°	3890	2391	2051
70°	3622	2029	1687
75°	3233	1607	1310
80°	2796	1130	925
85°	2180	607	463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4617 cd/sqm

TEST NUMBER: P1011544

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	0.8
10°-20°	135.0	2.3
20°-30°	199.4	3.4
30°-40°	232.9	3.9
40°-50°	234.1	4.0
50°-60°	205.7	3.5
60°-70°	153.2	2.6
70°-80°	87.2	1.5
80°-90°	27.8	0.5
90°-100°	53.0	0.9
100°-110°	256.2	4.3
110°-120°	627.8	10.6
120°-130°	797.0	13.5
130°-140°	851.4	14.4
140°-150°	796.2	13.5
150°-160°	642.2	10.9
160°-170°	414.4	7.0
170°-180°	142.8	2.4
0°-30°	382.2	6.5
0°-40°	615.1	10.4
0°-60°	1054.9	17.9
0°-90°	1323.0	22.4
90°-120°	937.0	15.9
90°-150°	3381.6	57.3
90°-180°	4581.0	77.6
0°-180°	5904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	508	505	501	505	504	48
15°	483	482	476	479	477	136
25°	439	436	430	431	430	202
35°	379	377	371	368	366	237
45°	311	309	304	298	296	240
55°	236	236	230	225	223	211
65°	161	159	154	151	150	159
75°	85	83	82	80	78	91
85°	23	22	22	21	21	24
90°	1	12	27	31	34	5
95°	68	22	35	42	42	81
105°	333	345	244	47	49	353
115°	624	631	641	652	656	616
125°	880	889	893	895	898	786
135°	1095	1102	1106	1110	1106	843
145°	1264	1272	1274	1276	1276	791
155°	1392	1390	1391	1397	1390	641
165°	1468	1465	1464	1472	1465	415
175°	1503	1497	1498	1506	1497	143
180°	1503	1503	1503	1503	1503	

TEST NUMBER: P1011544

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	507.2	507.2	507.2	507.2	507.2
2.5°	509.4	507.6	502.8	507.2	506.8
5°	507.6	505.4	500.7	505.0	504.1
7.5°	503.7	501.5	496.7	500.7	500.2
10°	498.5	496.3	490.6	494.5	493.7
12.5°	491.5	489.7	484.5	487.1	486.7
15°	483.2	481.5	475.8	479.3	476.7
17.5°	474.0	471.9	466.2	468.8	467.9
20°	463.6	461.0	455.3	457.0	455.7
22.5°	451.8	449.2	443.5	444.8	443.1
25°	438.7	436.1	430.4	430.9	429.6
27.5°	425.2	422.6	416.5	416.9	415.6
30°	410.4	408.2	402.1	402.1	399.0
32.5°	395.5	392.5	388.1	385.1	383.8
35°	379.4	376.8	371.1	368.5	366.3
37.5°	363.3	359.8	354.1	351.1	349.8
40°	346.3	343.7	337.5	334.1	332.3
42.5°	329.3	326.2	320.1	316.6	314.9
45°	310.9	309.2	303.5	298.3	296.1
47.5°	293.1	290.4	285.2	280.0	278.2
50°	274.7	272.6	266.9	262.1	259.5
52.5°	255.6	254.3	248.1	244.2	241.6
55°	235.9	235.5	229.8	225.0	222.9
57.5°	217.6	215.9	211.5	207.2	204.5
60°	197.6	197.1	191.9	188.0	185.8
62.5°	179.7	178.4	173.1	169.2	167.9
65°	160.9	158.7	154.4	150.9	149.6
67.5°	140.9	139.1	135.6	132.6	130.8
70°	123.0	120.4	117.7	114.7	112.5
72.5°	104.2	102.5	99.4	96.8	95.9
75°	85.0	83.3	82.0	79.8	78.5
77.5°	68.0	67.2	65.4	63.7	63.7
80°	51.5	50.2	49.3	48.8	48.8
82.5°	35.3	35.3	35.3	34.5	34.0
85°	22.7	21.8	21.8	20.9	20.9
87.5°	11.3	10.0	9.6	9.2	9.2
90°	1.1	12.3	26.8	31.3	33.5
92.5°	25.7	19.0	29.0	36.8	38.0
95°	68.1	22.3	34.6	42.4	42.4
97.5°	123.9	92.7	35.7	44.7	45.8
100°	188.7	211.0	36.8	45.8	46.9
102.5°	262.4	276.9	82.6	45.8	48.0
105°	332.7	345.0	244.5	46.9	49.1
107.5°	407.5	417.5	434.3	262.4	116.1
110°	482.3	491.2	503.5	466.7	307.0

TEST NUMBER: P1011544

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	553.7	561.5	573.8	583.9	581.6
115°	624.1	630.8	640.8	652.0	656.4
117.5°	693.3	701.1	706.7	715.6	716.7
120°	756.9	767.0	770.3	779.2	779.2
122.5°	821.7	829.5	833.9	839.5	840.6
125°	879.7	888.6	893.1	895.3	897.6
127.5°	937.8	946.7	952.3	955.6	953.4
130°	991.4	1000.3	1004.8	1009.2	1007.0
132.5°	1042.7	1051.6	1055.0	1059.5	1056.1
135°	1095.2	1101.9	1106.3	1109.7	1106.3
137.5°	1139.8	1148.8	1151.0	1156.6	1154.3
140°	1184.5	1191.2	1194.5	1199.0	1196.8
142.5°	1225.8	1232.5	1235.8	1239.2	1235.8
145°	1263.8	1271.6	1273.8	1276.0	1276.0
147.5°	1300.6	1306.2	1308.4	1310.6	1305.1
150°	1334.1	1337.4	1339.7	1341.9	1338.6
152.5°	1364.2	1365.3	1366.5	1370.9	1365.3
155°	1392.1	1389.9	1391.0	1396.6	1389.9
157.5°	1414.5	1414.5	1413.4	1420.1	1411.1
160°	1434.6	1433.4	1432.3	1439.0	1431.2
162.5°	1453.5	1450.2	1449.1	1456.9	1450.2
165°	1468.1	1464.7	1463.6	1472.5	1464.7
167.5°	1480.3	1475.9	1475.9	1484.8	1475.9
170°	1490.4	1485.9	1485.9	1494.8	1485.9
172.5°	1497.1	1491.5	1492.6	1501.5	1491.5
175°	1502.7	1497.1	1498.2	1506.0	1497.1
177.5°	1504.9	1499.3	1500.4	1509.4	1498.2
180°	1502.7	1502.7	1502.7	1502.7	1502.7

(END OF REPORT)