

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: P1011077

Luminaire Tested: S123DIP-B1000D1195UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011077
REPORT IS A COMBINATION OF REPORTS P989107 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB30-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

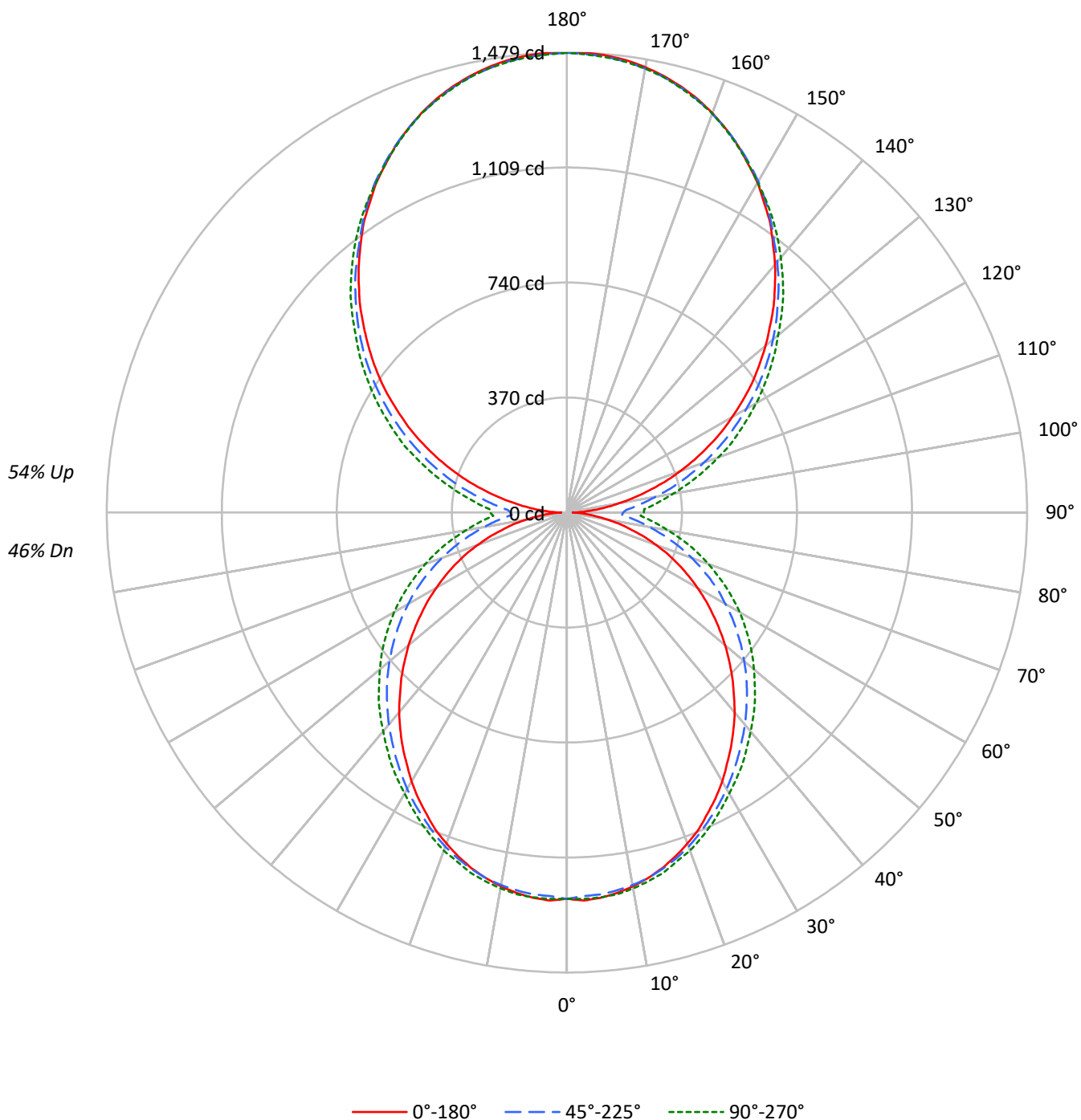
Lumens per Lamp: N/A
Luminaire Lumens: 8273.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	45	44	43
2	87	79	73	67	79	73	67	62	61	56	53	49	46	44	39	37	35
3	79	69	62	55	72	64	57	52	53	48	44	43	40	37	34	32	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	28	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	23	19	17
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15
9	48	36	28	23	44	33	27	22	28	23	19	24	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13369	13369	13369
5°	13405	12976	12966
10°	13279	12625	12529
15°	13104	12237	12065
20°	12854	11804	11566
25°	12548	11317	11051
30°	12233	10876	10532
35°	11881	10413	10110
40°	11544	9989	9664
45°	11171	9580	9297
50°	10802	9175	8898
55°	10393	8758	8531
60°	9993	8332	8156
65°	9582	7879	7716
70°	8964	7369	7261
75°	8182	6788	6793
80°	7269	6203	6260
85°	6368	5725	5878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.4
10°-20°	335.9	4.1
20°-30°	502.3	6.1
30°-40°	599.7	7.2
40°-50°	627.4	7.6
50°-60°	588.8	7.1
60°-70°	491.8	5.9
70°-80°	351.7	4.3
80°-90°	212.4	2.6
90°-100°	226.6	2.7
100°-110°	384.7	4.6
110°-120°	554.9	6.7
120°-130°	681.9	8.2
130°-140°	741.6	9.0
140°-150°	716.3	8.7
150°-160°	600.1	7.3
160°-170°	399.5	4.8
170°-180°	139.9	1.7
0°-30°	955.9	11.6
0°-40°	1555.6	18.8
0°-60°	2771.8	33.5
0°-90°	3827.6	46.3
90°-120°	1166.2	14.1
90°-150°	3305.9	40.0
90°-180°	4445.0	53.7
0°-180°	8273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1243	1241	1232	1243	1242	118
15°	1184	1188	1186	1200	1199	333
25°	1069	1082	1086	1104	1104	493
35°	920	942	959	980	985	575
45°	752	785	818	844	855	580
55°	574	618	667	704	714	514
65°	396	449	509	549	563	392
75°	215	279	346	391	407	230
85°	66	134	206	252	265	68
90°	19	97	181	231	247	18
95°	83	144	220	266	280	87
105°	272	307	376	413	428	291
115°	500	520	566	600	610	495
125°	726	730	767	790	795	648
135°	940	946	959	979	983	724
145°	1138	1139	1143	1152	1153	711
155°	1302	1302	1303	1308	1299	599
165°	1418	1414	1414	1421	1413	400
175°	1475	1470	1470	1477	1469	140
180°	1478	1478	1478	1478	1478	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.0	1242.0	1242.0	1242.0	1242.0
2.5°	1248.7	1244.7	1233.9	1244.7	1243.3
5°	1243.3	1240.6	1232.5	1243.3	1242.0
7.5°	1233.9	1233.9	1225.7	1239.3	1237.9
10°	1220.3	1223.0	1216.3	1229.8	1227.1
12.5°	1204.1	1208.1	1204.1	1216.3	1213.6
15°	1183.8	1187.9	1186.5	1200.0	1198.7
17.5°	1159.4	1167.6	1166.2	1178.4	1175.7
20°	1132.4	1140.5	1143.2	1155.4	1156.7
22.5°	1104.0	1112.1	1116.2	1132.4	1131.0
25°	1068.8	1082.3	1086.4	1104.0	1104.0
27.5°	1035.0	1049.9	1058.0	1072.9	1074.2
30°	998.4	1016.0	1026.9	1043.1	1043.1
32.5°	957.9	978.2	993.0	1010.6	1014.7
35°	920.0	941.6	959.2	979.5	984.9
37.5°	879.4	903.7	924.0	947.0	951.1
40°	838.8	863.2	890.2	913.2	918.6
42.5°	794.2	825.3	853.7	879.4	887.5
45°	752.2	784.7	818.5	844.2	855.0
47.5°	707.6	744.1	782.0	810.4	818.5
50°	664.3	702.2	744.1	775.2	784.7
52.5°	618.3	658.9	706.2	738.7	750.9
55°	573.6	618.3	667.0	703.5	714.3
57.5°	530.3	576.3	629.1	665.6	677.8
60°	484.3	533.0	588.5	626.4	641.3
62.5°	441.0	491.1	550.6	588.5	602.0
65°	396.4	449.2	508.7	549.3	562.8
67.5°	351.8	407.2	466.8	511.4	522.2
70°	304.4	362.6	427.5	470.8	484.3
72.5°	261.1	319.3	386.9	431.6	445.1
75°	215.1	278.7	346.3	391.0	407.2
77.5°	175.9	239.5	307.1	354.5	366.6
80°	133.9	200.2	270.6	316.6	330.1
82.5°	97.4	165.1	236.8	282.8	296.3
85°	66.3	133.9	205.6	251.6	265.2
87.5°	40.6	108.2	177.2	223.2	236.8
90°	18.8	96.7	180.8	231.4	247.2
92.5°	51.0	116.2	190.9	239.0	248.8
95°	83.4	144.2	219.8	266.5	280.0
97.5°	126.1	180.6	251.2	297.6	310.0
100°	170.1	220.4	288.4	331.1	347.0
102.5°	221.0	262.4	331.4	372.8	385.1
105°	272.1	306.9	375.5	413.3	427.9
107.5°	331.2	360.7	420.9	460.8	471.9
110°	385.5	412.2	468.6	508.5	517.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	443.6	463.7	515.1	554.7	566.9
115°	500.3	520.0	566.4	600.0	609.7
117.5°	559.5	571.5	615.2	647.7	655.0
120°	612.7	626.5	665.3	695.2	702.4
122.5°	669.6	677.0	716.6	742.9	748.9
125°	726.4	729.9	766.7	790.5	795.3
127.5°	779.8	785.4	816.8	837.0	841.8
130°	833.2	841.1	864.7	885.8	885.7
132.5°	885.2	894.5	912.5	931.1	934.7
135°	939.8	945.5	959.1	978.9	983.3
137.5°	989.7	994.2	1007.1	1023.0	1026.2
140°	1040.7	1046.5	1051.6	1070.8	1069.5
142.5°	1088.3	1092.7	1095.0	1111.5	1112.5
145°	1138.2	1139.1	1142.6	1152.3	1153.0
147.5°	1179.8	1184.4	1187.9	1192.0	1190.4
150°	1225.1	1227.4	1229.7	1229.7	1225.5
152.5°	1262.2	1265.7	1266.9	1269.2	1263.4
155°	1301.7	1301.7	1302.9	1307.5	1299.4
157.5°	1335.4	1334.2	1335.4	1340.0	1333.1
160°	1366.7	1364.4	1364.4	1370.2	1365.6
162.5°	1394.6	1391.1	1392.3	1398.1	1390.0
165°	1417.8	1414.4	1414.4	1421.3	1413.2
167.5°	1437.6	1432.9	1434.1	1441.1	1434.1
170°	1453.8	1449.2	1449.2	1457.3	1449.2
172.5°	1466.6	1462.0	1462.0	1468.9	1460.8
175°	1474.7	1470.1	1470.1	1477.1	1468.9
177.5°	1479.4	1474.7	1474.7	1481.7	1473.6
180°	1478.2	1478.2	1478.2	1478.2	1478.2

(END OF REPORT)