

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: P1010415

Luminaire Tested: S123DIP-B1000D1195UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010415
REPORT IS A COMBINATION OF REPORTS P989094 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB2750-4F0-XX-W2A-D_3000K
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

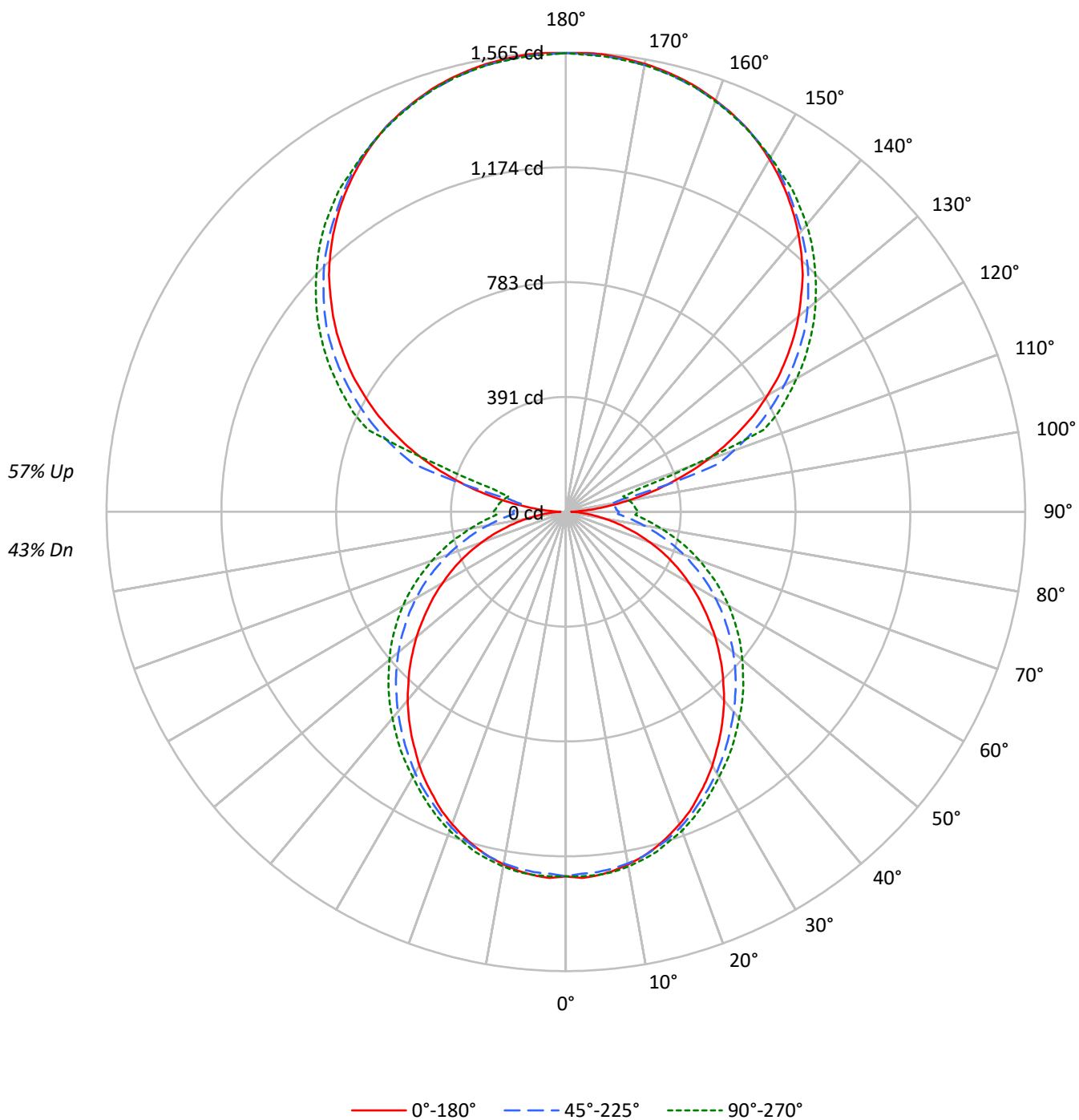
Lumens per Lamp: N/A
Luminaire Lumens: 8941.1 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50
1	95	91	86	83	87	83	79	76	68	66	63	55	53	51	42	41	40
2	86	79	72	67	78	72	66	62	59	55	52	48	45	42	37	35	33
3	79	69	61	55	71	63	56	51	52	47	43	42	38	35	32	30	28
4	72	61	53	46	65	56	48	43	46	41	36	37	33	30	29	26	24
5	66	54	46	39	60	49	42	37	41	35	31	33	29	26	26	23	20
6	60	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18
7	56	43	35	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	31	26	47	36	29	24	30	25	21	25	20	17	19	16	14
9	48	36	28	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	17	14	11

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	1.3
10°-20°	335.9	3.8
20°-30°	502.3	5.6
30°-40°	599.7	6.7
40°-50°	627.4	7.0
50°-60°	588.8	6.6
60°-70°	491.8	5.5
70°-80°	351.7	3.9
80°-90°	212.4	2.4
90°-100°	186.6	2.1
100°-110°	363.1	4.1
110°-120°	717.4	8.0
120°-130°	865.6	9.7
130°-140°	901.9	10.1
140°-150°	831.4	9.3
150°-160°	667.8	7.5
160°-170°	431.0	4.8
170°-180°	148.5	1.7
0°-30°	955.9	10.7
0°-40°	1555.6	17.4
0°-60°	2771.8	31.0
0°-90°	3827.6	42.8
90°-120°	1267.1	14.2
90°-150°	3866.1	43.2
90°-180°	5113.0	57.2
0°-180°	8941.1	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	17
95°	86	91	170	220	234	96
105°	357	402	356	188	203	378
115°	656	679	738	782	798	648
125°	919	928	972	1003	1015	821
135°	1142	1147	1167	1195	1198	879
145°	1316	1322	1325	1338	1343	823
155°	1448	1445	1447	1452	1445	667
165°	1527	1523	1522	1531	1523	431
175°	1563	1557	1558	1566	1557	149
180°	1563	1563	1563	1563	1563	

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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°	42.9	94.1	172.3	225.0	238.4
95°	85.7	90.8	169.9	220.0	233.5
97.5°	142.4	158.6	163.0	212.8	227.5
100°	208.4	274.9	156.0	204.5	219.3
102.5°	283.6	336.6	195.5	195.1	210.9
105°	356.8	402.0	355.8	188.1	202.6
107.5°	433.3	472.1	545.0	402.7	262.8
110°	509.6	543.3	610.2	607.1	451.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.9	611.1	675.2	719.5	729.4
115°	655.8	678.9	738.1	782.2	797.6
117.5°	727.8	746.7	798.5	840.3	852.2
120°	792.5	809.8	857.9	898.3	907.8
122.5°	859.9	870.7	917.3	952.8	963.5
125°	918.9	928.2	972.1	1002.8	1014.6
127.5°	979.3	987.2	1026.8	1057.4	1064.6
130°	1035.0	1042.9	1074.7	1105.0	1110.8
132.5°	1087.0	1096.3	1120.1	1149.2	1155.1
135°	1141.6	1147.3	1166.7	1194.6	1197.9
137.5°	1188.0	1196.0	1207.8	1235.3	1239.6
140°	1233.2	1240.1	1247.6	1272.6	1277.0
142.5°	1276.1	1281.7	1285.2	1306.3	1309.6
145°	1315.6	1322.3	1324.7	1337.8	1343.2
147.5°	1352.5	1358.3	1360.6	1367.1	1366.7
150°	1387.3	1390.8	1393.2	1395.5	1394.7
152.5°	1418.7	1419.9	1421.0	1425.7	1419.9
155°	1447.7	1445.4	1446.6	1452.4	1445.4
157.5°	1470.9	1470.9	1469.8	1476.7	1467.5
160°	1491.8	1490.7	1489.5	1496.5	1488.4
162.5°	1511.6	1508.1	1506.9	1515.1	1508.1
165°	1526.7	1523.2	1522.0	1531.3	1523.2
167.5°	1539.4	1534.8	1534.8	1544.1	1534.8
170°	1549.9	1545.2	1545.2	1554.5	1545.2
172.5°	1556.8	1551.0	1552.2	1561.5	1551.0
175°	1562.7	1556.8	1558.0	1566.1	1556.8
177.5°	1565.0	1559.2	1560.3	1569.6	1558.0
180°	1562.7	1562.7	1562.7	1562.7	1562.7

(END OF REPORT)