

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: P1011286

Luminaire Tested: S123DIP-B1165D1195UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011286
REPORT IS A COMBINATION OF REPORTS P989382 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB27-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

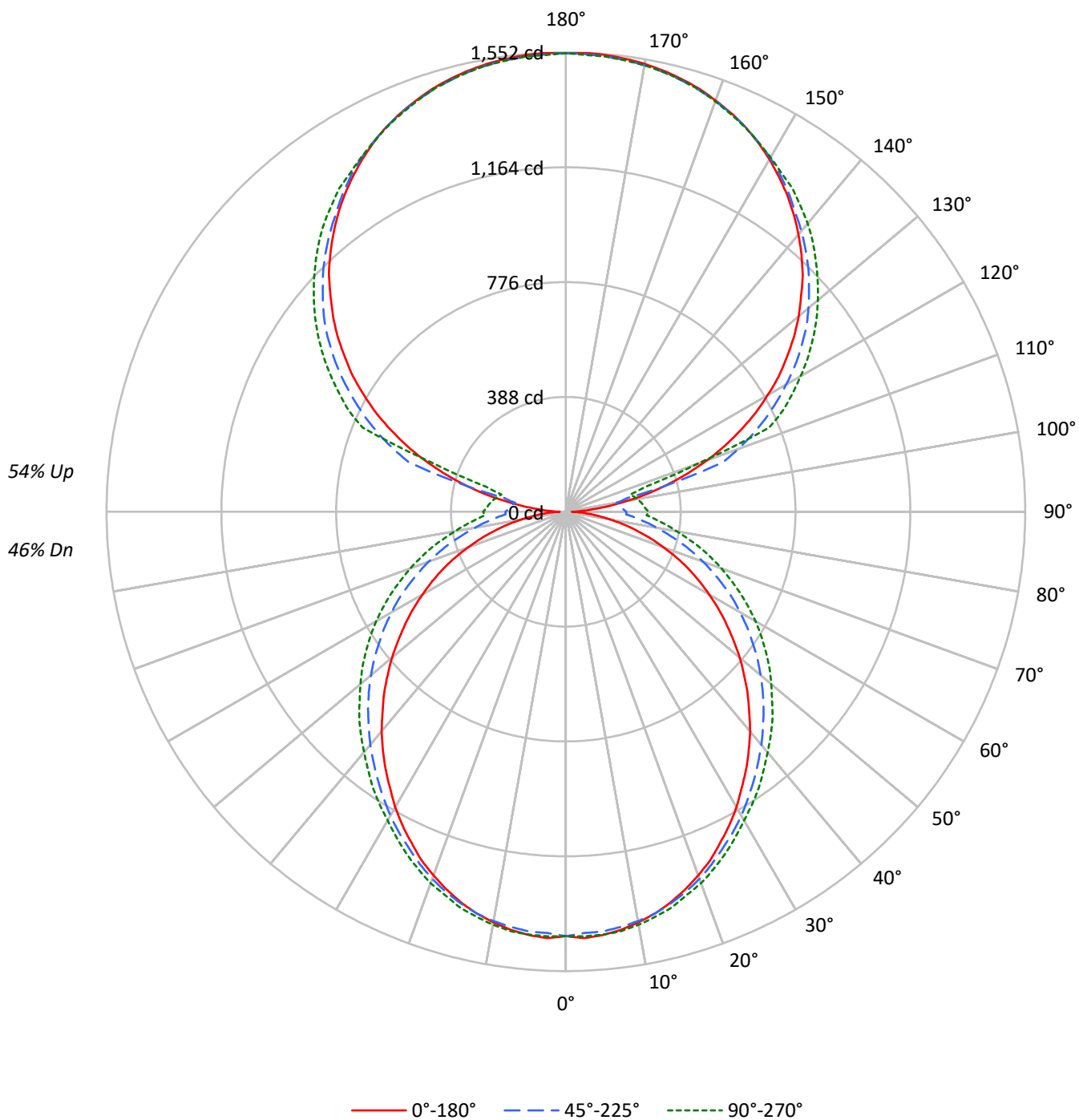
Lumens per Lamp: N/A
Luminaire Lumens: 9545.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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
RCR																	
0	106	106	106	106	98	98	98	98	81	81	81		66	66	66		53
1	96	91	87	83	88	84	80	77	70	67	65		57	55	53		45
2	87	79	73	67	79	73	67	62	61	56	53		49	46	44		39
3	79	69	62	55	72	64	57	52	53	48	44		43	40	37		34
4	72	61	53	47	66	56	49	43	47	41	37		38	34	31		30
5	66	54	46	40	60	50	43	37	42	36	32		34	30	27		27
6	61	49	40	34	56	45	37	32	38	32	28		31	27	23		25
7	56	44	36	30	51	40	33	28	34	28	24		28	24	20		23
8	52	40	32	26	48	37	30	25	31	25	21		26	21	18		21
9	48	36	28	23	44	33	27	22	28	23	19		24	19	16		19
10	45	33	26	21	41	31	24	20	26	21	17		22	18	15		18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15434	15434	15434
5°	15477	14982	14969
10°	15332	14576	14464
15°	15129	14128	13929
20°	14841	13628	13354
25°	14487	13066	12758
30°	14123	12556	12160
35°	13716	12022	11673
40°	13328	11534	11158
45°	12898	11061	10734
50°	12471	10593	10273
55°	12000	10112	9850
60°	11539	9621	9416
65°	11064	9096	8908
70°	10348	8509	8384
75°	9449	7839	7845
80°	8393	7161	7228
85°	7348	6611	6785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12898 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.4
10°-20°	387.8	4.1
20°-30°	579.9	6.1
30°-40°	692.3	7.3
40°-50°	724.4	7.6
50°-60°	679.8	7.1
60°-70°	567.8	5.9
70°-80°	406.0	4.3
80°-90°	244.7	2.6
90°-100°	206.4	2.2
100°-110°	375.7	3.9
110°-120°	721.8	7.6
120°-130°	864.2	9.1
130°-140°	896.9	9.4
140°-150°	824.8	8.6
150°-160°	662.1	6.9
160°-170°	427.3	4.5
170°-180°	147.2	1.5
0°-30°	1103.7	11.6
0°-40°	1796.0	18.8
0°-60°	3200.1	33.5
0°-90°	4418.6	46.3
90°-120°	1303.9	13.7
90°-150°	3889.8	40.8
90°-180°	5126.0	53.7
0°-180°	9545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1436	1432	1423	1436	1434	136
15°	1367	1371	1370	1386	1384	385
25°	1234	1250	1254	1275	1275	569
35°	1062	1087	1107	1131	1137	664
45°	868	906	945	975	987	670
55°	662	714	770	812	825	593
65°	458	519	587	634	650	452
75°	248	322	400	451	470	265
85°	76	155	237	290	306	79
90°	22	110	204	262	280	19
95°	87	101	190	247	262	97
105°	356	406	369	209	226	376
115°	651	677	744	792	810	644
125°	912	921	971	1006	1019	815
135°	1132	1138	1159	1191	1195	872
145°	1304	1311	1313	1328	1334	816
155°	1435	1433	1434	1440	1433	661
165°	1514	1510	1509	1518	1510	428
175°	1549	1544	1545	1553	1544	147
180°	1549	1549	1549	1549	1549	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.9	1433.9	1433.9	1433.9	1433.9
2.5°	1441.7	1437.0	1424.5	1437.0	1435.5
5°	1435.5	1432.3	1423.0	1435.5	1433.9
7.5°	1424.5	1424.5	1415.1	1430.8	1429.2
10°	1408.9	1412.0	1404.2	1419.8	1416.7
12.5°	1390.2	1394.8	1390.2	1404.2	1401.1
15°	1366.7	1371.4	1369.9	1385.5	1383.9
17.5°	1338.6	1348.0	1346.4	1360.5	1357.4
20°	1307.4	1316.7	1319.9	1333.9	1335.5
22.5°	1274.6	1283.9	1288.6	1307.4	1305.8
25°	1234.0	1249.6	1254.3	1274.6	1274.6
27.5°	1194.9	1212.1	1221.5	1238.6	1240.2
30°	1152.7	1173.0	1185.5	1204.3	1204.3
32.5°	1105.9	1129.3	1146.5	1166.8	1171.5
35°	1062.1	1087.1	1107.4	1130.9	1137.1
37.5°	1015.3	1043.4	1066.8	1093.4	1098.1
40°	968.4	996.5	1027.8	1054.3	1060.6
42.5°	916.9	952.8	985.6	1015.3	1024.7
45°	868.5	905.9	945.0	974.7	987.2
47.5°	816.9	859.1	902.8	935.6	945.0
50°	766.9	810.7	859.1	895.0	905.9
52.5°	713.8	760.7	815.4	852.8	866.9
55°	662.3	713.8	770.1	812.2	824.7
57.5°	612.3	665.4	726.3	768.5	782.5
60°	559.2	615.4	679.5	723.2	740.4
62.5°	509.2	567.0	635.7	679.5	695.1
65°	457.7	518.6	587.3	634.2	649.8
67.5°	406.1	470.2	538.9	590.4	602.9
70°	351.4	418.6	493.6	543.6	559.2
72.5°	301.5	368.6	446.7	498.3	513.9
75°	248.4	321.8	399.9	451.4	470.2
77.5°	203.1	276.5	354.6	409.2	423.3
80°	154.6	231.2	312.4	365.5	381.1
82.5°	112.5	190.6	273.3	326.5	342.1
85°	76.5	154.6	237.4	290.5	306.1
87.5°	46.9	125.0	204.6	257.7	273.3
90°	21.5	109.5	204.1	261.8	279.7
92.5°	45.2	105.5	193.9	253.6	268.7
95°	87.4	101.1	190.3	246.8	262.4
97.5°	143.4	167.4	182.1	238.1	254.9
100°	208.6	281.5	173.9	228.4	245.1
102.5°	283.0	341.6	211.7	217.5	235.4
105°	355.5	405.7	369.2	209.2	225.5
107.5°	431.0	474.2	555.5	420.4	283.7
110°	506.6	543.9	619.1	621.7	469.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.3	610.1	682.2	731.6	743.4
115°	651.2	676.9	743.5	792.5	809.6
117.5°	722.6	743.1	802.0	848.7	862.3
120°	786.6	804.8	859.8	904.9	915.9
122.5°	853.3	864.6	917.6	957.7	969.8
125°	911.7	920.9	970.8	1005.9	1019.1
127.5°	971.5	979.1	1024.0	1058.6	1067.2
130°	1026.8	1034.4	1070.3	1104.5	1111.6
132.5°	1078.1	1087.3	1114.3	1147.0	1154.4
135°	1132.2	1137.6	1159.3	1191.0	1195.3
137.5°	1178.2	1186.0	1199.2	1229.9	1235.4
140°	1222.8	1229.7	1237.7	1265.8	1271.3
142.5°	1265.4	1270.7	1274.1	1297.9	1302.2
145°	1304.5	1311.0	1313.3	1328.1	1334.3
147.5°	1340.9	1346.6	1348.9	1355.9	1356.4
150°	1375.4	1378.9	1381.2	1383.5	1383.1
152.5°	1406.5	1407.6	1408.8	1413.4	1407.6
155°	1435.3	1433.0	1434.1	1439.9	1433.0
157.5°	1458.3	1458.3	1457.1	1464.0	1454.8
160°	1479.0	1477.9	1476.7	1483.6	1475.6
162.5°	1498.6	1495.1	1494.0	1502.0	1495.1
165°	1513.5	1510.1	1508.9	1518.1	1510.1
167.5°	1526.2	1521.6	1521.6	1530.8	1521.6
170°	1536.6	1531.9	1531.9	1541.2	1531.9
172.5°	1543.5	1537.7	1538.9	1548.1	1537.7
175°	1549.2	1543.5	1544.6	1552.7	1543.5
177.5°	1551.5	1545.8	1546.9	1556.1	1544.6
180°	1549.2	1549.2	1549.2	1549.2	1549.2

(END OF REPORT)