

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: P1011296

Luminaire Tested: S123DIP-B1165D1195UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011296
REPORT IS A COMBINATION OF REPORTS P989407 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB30-4F0-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

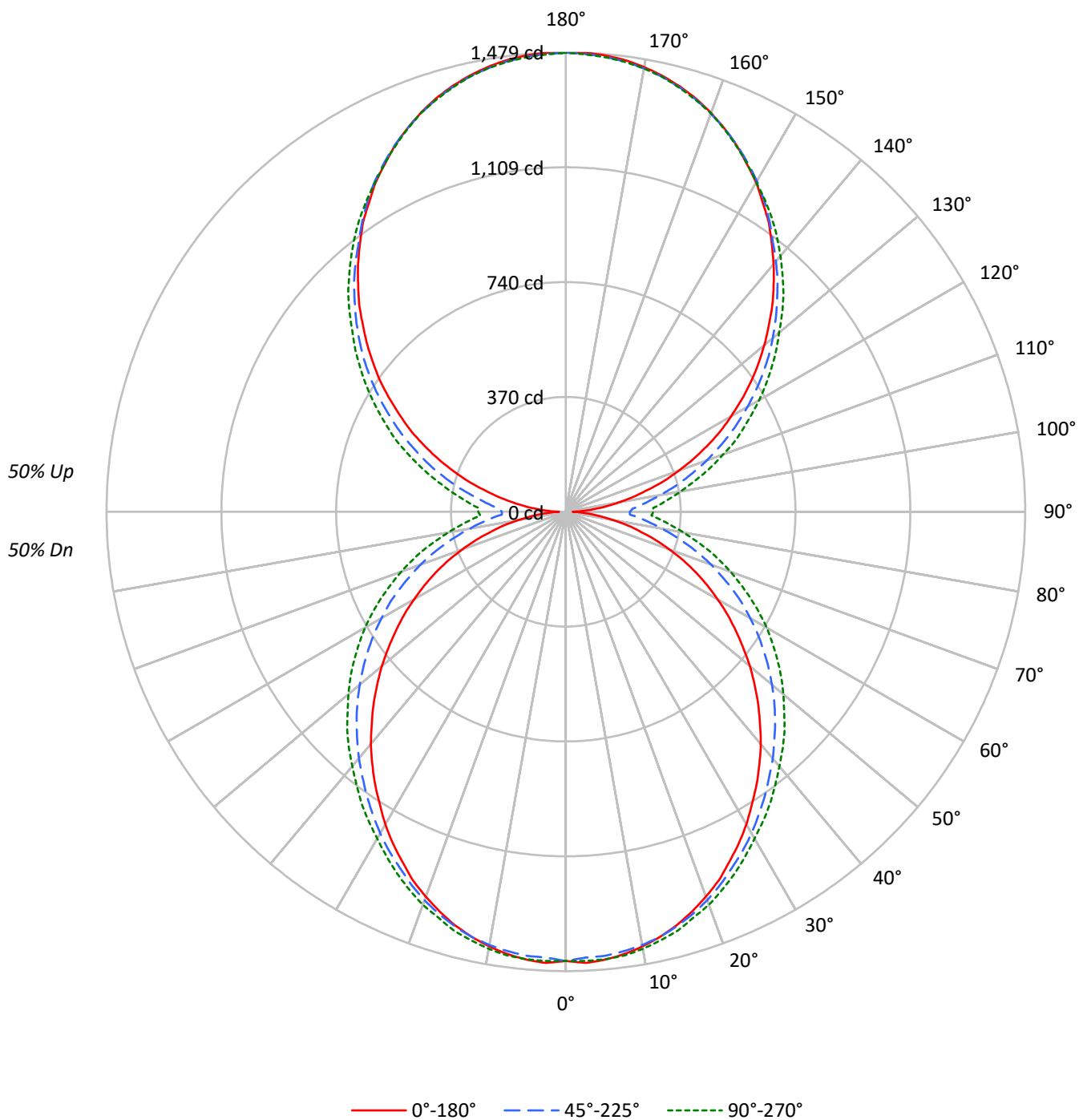
Lumens per Lamp: N/A
Luminaire Lumens: 8959.1 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	48	46	45
2	88	80	73	68	80	73	68	63	62	58	54	51	48	45	41	39	37
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	34	31
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	41	35	56	45	38	32	38	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	20	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	18	16
9	49	36	29	24	45	34	27	22	29	23	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15566	15566	15566
5°	15608	15109	15097
10°	15462	14700	14588
15°	15258	14248	14048
20°	14967	13744	13467
25°	14610	13176	12866
30°	14243	12663	12263
35°	13834	12125	11772
40°	13442	11631	11252
45°	13007	11155	10825
50°	12578	10683	10361
55°	12102	10197	9933
60°	11636	9701	9496
65°	11159	9174	8984
70°	10437	8581	8455
75°	9529	7906	7911
80°	8469	7223	7290
85°	7415	6667	6844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	1.5
10°-20°	391.1	4.4
20°-30°	584.8	6.5
30°-40°	698.2	7.8
40°-50°	730.6	8.2
50°-60°	685.6	7.7
60°-70°	572.6	6.4
70°-80°	409.5	4.6
80°-90°	246.8	2.8
90°-100°	248.3	2.8
100°-110°	400.5	4.5
110°-120°	565.5	6.3
120°-130°	687.9	7.7
130°-140°	744.3	8.3
140°-150°	716.8	8.0
150°-160°	600.1	6.7
160°-170°	399.5	4.5
170°-180°	139.9	1.6
0°-30°	1113.0	12.4
0°-40°	1811.3	20.2
0°-60°	3227.4	36.0
0°-90°	4456.2	49.7
90°-120°	1214.3	13.6
90°-150°	3363.3	37.5
90°-180°	4503.0	50.3
0°-180°	8959.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1448	1444	1435	1448	1446	137
15°	1378	1383	1382	1397	1396	388
25°	1244	1260	1265	1285	1285	574
35°	1071	1096	1117	1140	1147	670
45°	876	914	953	983	996	675
55°	668	720	777	819	832	598
65°	462	523	592	640	655	456
75°	250	324	403	455	474	268
85°	77	156	239	293	309	79
90°	22	110	206	264	282	20
95°	86	155	242	295	311	89
105°	274	314	392	436	453	292
115°	501	524	578	617	629	497
125°	727	730	774	802	809	649
135°	940	946	962	986	991	725
145°	1138	1139	1143	1154	1156	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°	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1454.0	1449.2	1436.6	1449.2	1447.7
5°	1447.7	1444.5	1435.1	1447.7	1446.1
7.5°	1436.6	1436.6	1427.2	1442.9	1441.4
10°	1420.9	1424.0	1416.2	1431.9	1428.8
12.5°	1402.0	1406.7	1402.0	1416.2	1413.0
15°	1378.4	1383.1	1381.5	1397.3	1395.7
17.5°	1350.0	1359.5	1357.9	1372.1	1368.9
20°	1318.5	1327.9	1331.1	1345.3	1346.8
22.5°	1285.4	1294.9	1299.6	1318.5	1316.9
25°	1244.5	1260.2	1264.9	1285.4	1285.4
27.5°	1205.1	1222.4	1231.9	1249.2	1250.8
30°	1162.5	1183.0	1195.6	1214.5	1214.5
32.5°	1115.3	1138.9	1156.2	1176.7	1181.4
35°	1071.2	1096.4	1116.9	1140.5	1146.8
37.5°	1023.9	1052.3	1075.9	1102.7	1107.4
40°	976.7	1005.0	1036.5	1063.3	1069.6
42.5°	924.7	960.9	994.0	1023.9	1033.4
45°	875.8	913.7	953.0	983.0	995.6
47.5°	823.9	866.4	910.5	943.6	953.0
50°	773.5	817.6	866.4	902.6	913.7
52.5°	719.9	767.2	822.3	860.1	874.3
55°	667.9	719.9	776.6	819.1	831.7
57.5°	617.5	671.1	732.5	775.0	789.2
60°	563.9	620.7	685.2	729.3	746.7
62.5°	513.5	571.8	641.1	685.2	701.0
65°	461.6	523.0	592.3	639.6	655.3
67.5°	409.6	474.2	543.5	595.4	608.1
70°	354.4	422.2	497.8	548.2	563.9
72.5°	304.0	371.8	450.5	502.5	518.3
75°	250.5	324.5	403.3	455.3	474.2
77.5°	204.8	278.8	357.6	412.7	426.9
80°	156.0	233.1	315.1	368.6	384.4
82.5°	113.4	192.2	275.7	329.2	345.0
85°	77.2	156.0	239.4	293.0	308.8
87.5°	47.3	126.0	206.4	259.9	275.7
90°	21.7	110.5	205.9	264.1	282.1
92.5°	53.7	128.4	214.2	269.7	281.5
95°	85.8	155.4	241.9	295.4	311.1
97.5°	128.4	190.9	271.9	325.0	339.6
100°	172.1	229.5	307.7	356.9	375.0
102.5°	222.8	270.4	349.4	397.0	411.6
105°	273.9	314.0	392.1	436.3	452.8
107.5°	332.7	366.9	436.2	482.1	495.2
110°	386.9	417.5	482.8	528.5	538.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	445.0	468.1	528.0	573.1	587.3
115°	501.4	523.8	578.2	617.1	628.6
117.5°	560.6	574.4	625.6	663.4	672.5
120°	613.6	628.5	674.7	709.7	718.4
122.5°	670.5	678.4	724.8	756.0	763.6
125°	727.0	730.5	773.8	802.3	808.6
127.5°	780.4	785.9	822.8	847.4	853.8
130°	833.8	841.6	869.6	894.9	896.1
132.5°	885.7	895.0	916.3	938.8	944.1
135°	940.3	945.7	961.8	985.6	991.0
137.5°	990.2	994.4	1008.9	1028.3	1032.7
140°	1040.9	1046.7	1052.5	1075.0	1074.8
142.5°	1088.5	1092.7	1095.0	1114.4	1116.5
145°	1138.4	1139.1	1142.6	1154.1	1155.7
147.5°	1179.8	1184.4	1187.9	1192.6	1191.9
150°	1225.1	1227.4	1229.7	1229.7	1226.0
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)