

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: P1010490

Luminaire Tested: S123DIP-B1165D1195UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010490
REPORT IS A COMBINATION OF REPORTS P989394 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB2750-4F0-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

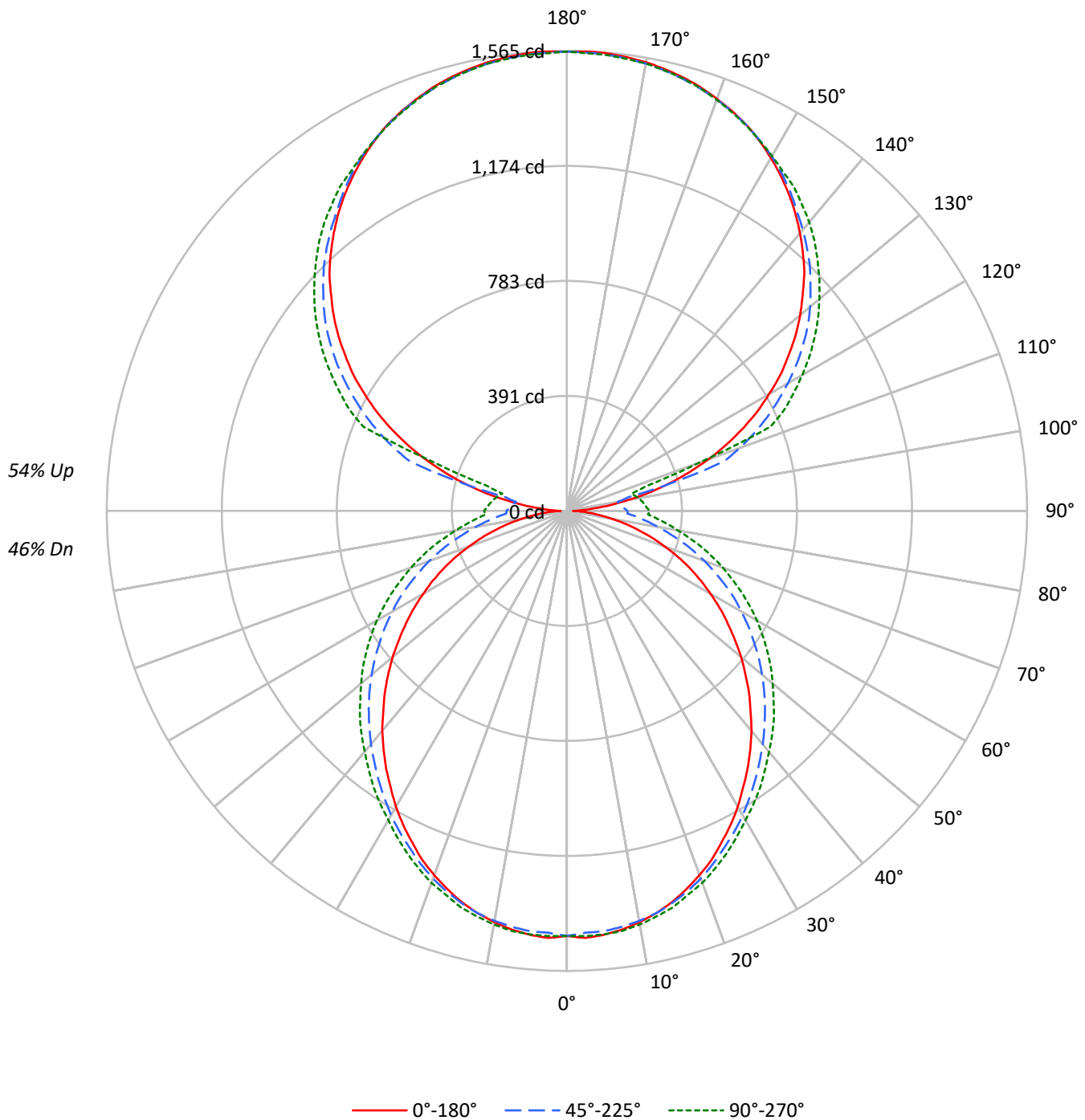
Lumens per Lamp: N/A
Luminaire Lumens: 9627.1 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53			46
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	45	44	43			37
2	87	79	73	67	79	73	67	62	61	56	53	49	46	44	39	37	35			30
3	79	69	62	55	72	64	57	52	53	48	44	43	40	37	34	32	29			25
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	28	25			21
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22			18
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19			16
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	23	19	17			14
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15			13
9	48	36	28	23	44	33	27	22	28	23	19	24	19	16	19	16	13			11
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	15	12			10

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	1.4
10°-20°	391.1	4.1
20°-30°	584.8	6.1
30°-40°	698.2	7.3
40°-50°	730.6	7.6
50°-60°	685.6	7.1
60°-70°	572.6	5.9
70°-80°	409.5	4.3
80°-90°	246.8	2.6
90°-100°	208.2	2.2
100°-110°	379.0	3.9
110°-120°	728.0	7.6
120°-130°	871.7	9.1
130°-140°	904.6	9.4
140°-150°	832.0	8.6
150°-160°	667.8	6.9
160°-170°	431.0	4.5
170°-180°	148.5	1.5
0°-30°	1113.0	11.6
0°-40°	1811.3	18.8
0°-60°	3227.4	33.5
0°-90°	4456.2	46.3
90°-120°	1315.2	13.7
90°-150°	3923.5	40.8
90°-180°	5171.0	53.7
0°-180°	9627.1	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	19
95°	88	102	192	249	265	98
105°	359	409	372	211	228	380
115°	657	683	750	799	816	649
125°	920	929	979	1015	1028	822
135°	1142	1148	1169	1201	1206	879
145°	1316	1322	1325	1340	1346	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°	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°	45.6	106.3	195.6	255.7	271.1
95°	88.1	102.0	192.0	248.9	264.6
97.5°	144.7	168.9	183.7	240.2	257.1
100°	210.4	284.0	175.3	230.3	247.3
102.5°	285.4	344.6	213.5	219.3	237.4
105°	358.6	409.1	372.4	211.1	227.5
107.5°	434.8	478.3	560.3	424.0	286.1
110°	511.0	548.6	624.4	627.1	473.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	585.3	615.5	688.1	737.9	749.8
115°	656.9	682.7	749.9	799.3	816.5
117.5°	728.9	749.6	808.9	856.0	869.7
120°	793.4	811.8	867.3	912.8	923.8
122.5°	860.8	872.1	925.5	965.9	978.2
125°	919.5	928.8	979.2	1014.6	1027.9
127.5°	979.9	987.7	1032.8	1067.8	1076.6
130°	1035.6	1043.4	1079.6	1114.1	1121.2
132.5°	1087.5	1096.8	1123.9	1156.9	1164.5
135°	1142.1	1147.5	1169.4	1201.3	1205.6
137.5°	1188.5	1196.2	1209.6	1240.6	1246.1
140°	1233.4	1240.3	1248.5	1276.8	1282.3
142.5°	1276.3	1281.7	1285.2	1309.2	1313.6
145°	1315.8	1322.3	1324.7	1339.6	1345.9
147.5°	1352.5	1358.3	1360.6	1367.7	1368.2
150°	1387.3	1390.8	1393.2	1395.5	1395.2
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)