

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: P1010498

Luminaire Tested: S123DIP-B1165D1195UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010498
REPORT IS A COMBINATION OF REPORTS P989402 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-F_5000K
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

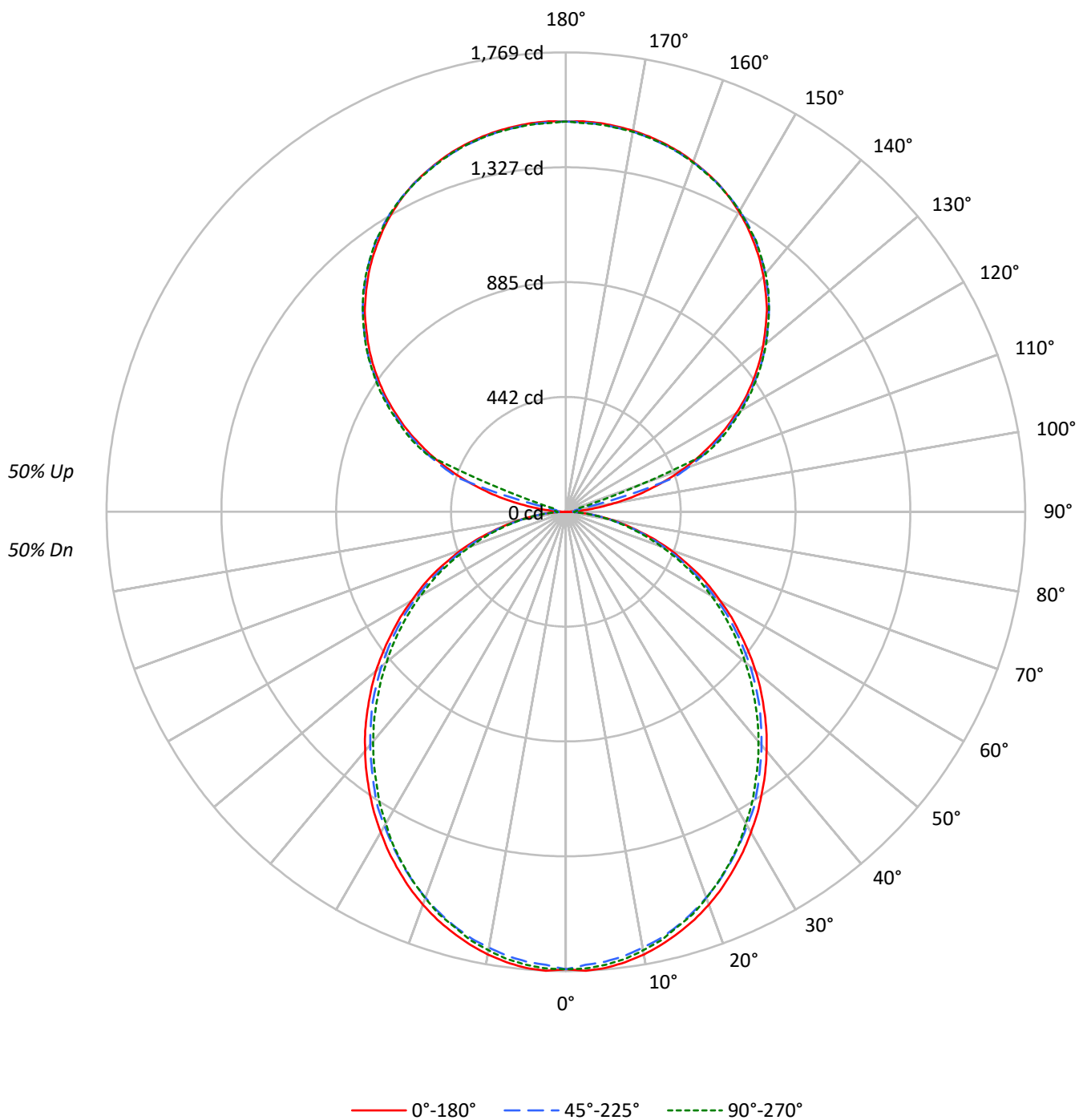
Lumens per Lamp: N/A
Luminaire Lumens: 9169.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	98	93	89	86	90	86	83	80	73	71	68	61	59	57	50	48	47
2	89	82	75	70	82	75	70	65	64	60	57	53	50	48	44	42	40
3	81	72	64	58	75	66	60	55	56	51	47	47	44	41	39	36	34
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	32	29
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	22	20
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18963	18963	18963
5°	19010	18309	18281
10°	18841	17689	17508
15°	18579	17045	16664
20°	18278	16330	15828
25°	17890	15574	14935
30°	17464	14793	13996
35°	17020	13994	13061
40°	16554	13157	12144
45°	16041	12340	11184
50°	15518	11431	10221
55°	14849	10482	9245
60°	14159	9436	8206
65°	13513	8305	7123
70°	12581	7050	5860
75°	11237	5583	4550
80°	9702	3924	3218
85°	7569	2108	1611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16041 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	1.8
10°-20°	469.0	5.1
20°-30°	692.6	7.6
30°-40°	808.9	8.8
40°-50°	813.2	8.9
50°-60°	714.4	7.8
60°-70°	532.0	5.8
70°-80°	302.8	3.3
80°-90°	89.1	1.0
90°-100°	53.0	0.6
100°-110°	256.2	2.8
110°-120°	627.8	6.8
120°-130°	797.0	8.7
130°-140°	851.4	9.3
140°-150°	796.2	8.7
150°-160°	642.2	7.0
160°-170°	414.4	4.5
170°-180°	142.8	1.6
0°-30°	1327.7	14.5
0°-40°	2136.6	23.3
0°-60°	3664.1	40.0
0°-90°	4588.0	50.0
90°-120°	937.0	10.2
90°-150°	3381.6	36.9
90°-180°	4581.0	50.0
0°-180°	9169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1763	1756	1739	1754	1751	167
15°	1678	1672	1653	1665	1656	473
25°	1524	1515	1495	1497	1492	702
35°	1318	1309	1289	1280	1272	825
45°	1080	1074	1054	1036	1029	834
55°	820	818	798	782	774	734
65°	559	551	536	524	520	551
75°	295	289	285	277	273	316
85°	79	76	76	73	73	84
90°	1	12	27	31	34	9
95°	68	22	35	42	42	81
105°	333	345	244	47	49	353
115°	624	631	641	652	656	616
125°	880	889	893	895	898	786
135°	1095	1102	1106	1110	1106	843
145°	1264	1272	1274	1276	1276	791
155°	1392	1390	1391	1397	1390	641
165°	1468	1465	1464	1472	1465	415
175°	1503	1497	1498	1506	1497	143
180°	1503	1503	1503	1503	1503	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.7	1761.7	1761.7	1761.7	1761.7
2.5°	1769.3	1763.2	1746.6	1761.7	1760.2
5°	1763.2	1755.7	1739.0	1754.2	1751.1
7.5°	1749.6	1742.0	1725.4	1739.0	1737.5
10°	1731.4	1723.9	1704.2	1717.8	1714.8
12.5°	1707.2	1701.1	1683.0	1692.0	1690.5
15°	1678.4	1672.4	1652.7	1664.8	1655.7
17.5°	1646.6	1639.0	1619.3	1628.4	1625.4
20°	1610.2	1601.2	1581.5	1587.5	1583.0
22.5°	1569.3	1560.3	1540.6	1545.1	1539.1
25°	1523.9	1514.8	1495.1	1496.6	1492.1
27.5°	1476.9	1467.9	1446.6	1448.2	1443.6
30°	1425.4	1417.9	1396.7	1396.7	1386.1
32.5°	1373.9	1363.3	1348.2	1337.6	1333.0
35°	1317.9	1308.8	1289.1	1280.0	1272.4
37.5°	1261.8	1249.7	1230.0	1219.4	1214.9
40°	1202.8	1193.7	1172.5	1160.3	1154.3
42.5°	1143.7	1133.1	1111.9	1099.8	1093.7
45°	1080.1	1074.0	1054.3	1036.1	1028.6
47.5°	1018.0	1008.9	990.7	972.5	966.5
50°	954.3	946.8	927.1	910.4	901.3
52.5°	887.7	883.1	861.9	848.3	839.2
55°	819.5	818.0	798.3	781.6	774.1
57.5°	755.9	749.8	734.7	719.5	710.4
60°	686.2	684.7	666.5	652.9	645.3
62.5°	624.1	619.6	601.4	587.7	583.2
65°	559.0	551.4	536.2	524.1	519.6
67.5°	489.3	483.2	471.1	460.5	454.4
70°	427.2	418.1	409.0	398.4	390.8
72.5°	362.0	356.0	345.4	336.3	333.3
75°	295.4	289.3	284.8	277.2	272.7
77.5°	236.3	233.3	227.2	221.2	221.2
80°	178.7	174.2	171.2	169.7	169.7
82.5°	122.7	122.7	122.7	119.7	118.2
85°	78.8	75.7	75.7	72.7	72.7
87.5°	39.4	34.8	33.3	31.8	31.8
90°	1.1	12.3	26.8	31.3	33.5
92.5°	25.7	19.0	29.0	36.8	38.0
95°	68.1	22.3	34.6	42.4	42.4
97.5°	123.9	92.7	35.7	44.7	45.8
100°	188.7	211.0	36.8	45.8	46.9
102.5°	262.4	276.9	82.6	45.8	48.0
105°	332.7	345.0	244.5	46.9	49.1
107.5°	407.5	417.5	434.3	262.4	116.1
110°	482.3	491.2	503.5	466.7	307.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	553.7	561.5	573.8	583.9	581.6
115°	624.1	630.8	640.8	652.0	656.4
117.5°	693.3	701.1	706.7	715.6	716.7
120°	756.9	767.0	770.3	779.2	779.2
122.5°	821.7	829.5	833.9	839.5	840.6
125°	879.7	888.6	893.1	895.3	897.6
127.5°	937.8	946.7	952.3	955.6	953.4
130°	991.4	1000.3	1004.8	1009.2	1007.0
132.5°	1042.7	1051.6	1055.0	1059.5	1056.1
135°	1095.2	1101.9	1106.3	1109.7	1106.3
137.5°	1139.8	1148.8	1151.0	1156.6	1154.3
140°	1184.5	1191.2	1194.5	1199.0	1196.8
142.5°	1225.8	1232.5	1235.8	1239.2	1235.8
145°	1263.8	1271.6	1273.8	1276.0	1276.0
147.5°	1300.6	1306.2	1308.4	1310.6	1305.1
150°	1334.1	1337.4	1339.7	1341.9	1338.6
152.5°	1364.2	1365.3	1366.5	1370.9	1365.3
155°	1392.1	1389.9	1391.0	1396.6	1389.9
157.5°	1414.5	1414.5	1413.4	1420.1	1411.1
160°	1434.6	1433.4	1432.3	1439.0	1431.2
162.5°	1453.5	1450.2	1449.1	1456.9	1450.2
165°	1468.1	1464.7	1463.6	1472.5	1464.7
167.5°	1480.3	1475.9	1475.9	1484.8	1475.9
170°	1490.4	1485.9	1485.9	1494.8	1485.9
172.5°	1497.1	1491.5	1492.6	1501.5	1491.5
175°	1502.7	1497.1	1498.2	1506.0	1497.1
177.5°	1504.9	1499.3	1500.4	1509.4	1498.2
180°	1502.7	1502.7	1502.7	1502.7	1502.7

(END OF REPORT)