

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: P1010481

Luminaire Tested: S123DIP-B1165D1025UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010481
REPORT IS A COMBINATION OF REPORTS P989340 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1025UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

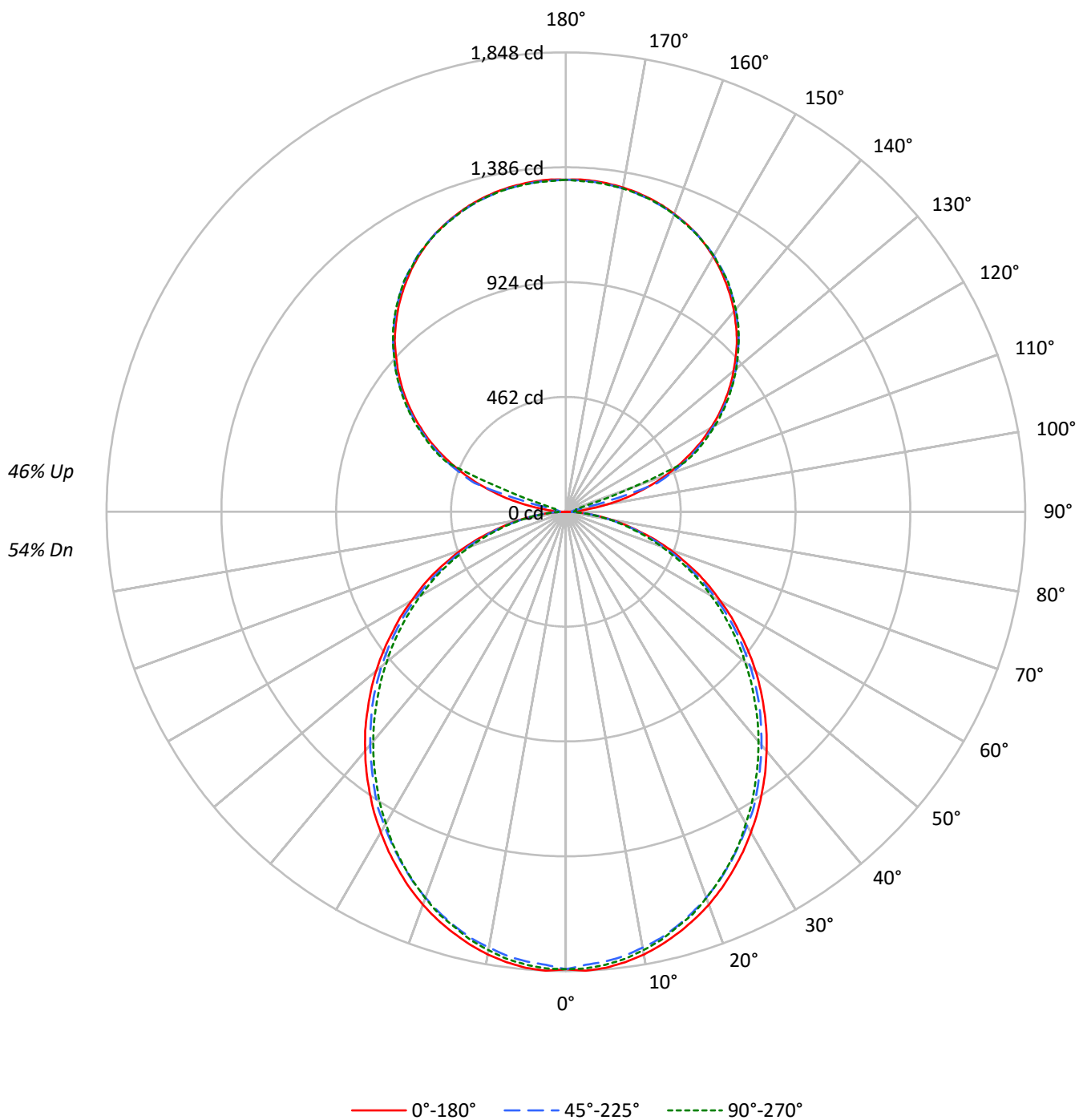
Lumens per Lamp: N/A
Luminaire Lumens: 8864.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	94	90	87	91	88	84	81	75	72	70	63	62	60	53	52	50
2	90	82	76	71	83	77	71	66	66	62	58	56	53	50	46	44	42
3	82	72	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31
5	69	57	49	43	64	53	46	40	46	40	36	39	35	31	33	30	27
6	63	51	43	37	59	48	40	35	41	36	31	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	24	31	26	22	27	23	20	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19807	19807	19807
5°	19856	19123	19094
10°	19680	18476	18287
15°	19406	17803	17406
20°	19092	17055	16532
25°	18686	16267	15600
30°	18242	15451	14618
35°	17776	14618	13643
40°	17290	13742	12683
45°	16754	12889	11681
50°	16209	11939	10675
55°	15510	10948	9656
60°	14789	9857	8571
65°	14113	8675	7440
70°	13140	7364	6120
75°	11735	5832	4751
80°	10136	4098	3361
85°	7905	2203	1682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	2.0
10°-20°	489.8	5.5
20°-30°	723.4	8.2
30°-40°	844.9	9.5
40°-50°	849.4	9.6
50°-60°	746.1	8.4
60°-70°	555.7	6.3
70°-80°	316.2	3.6
80°-90°	92.6	1.0
90°-100°	47.1	0.5
100°-110°	227.8	2.6
110°-120°	558.1	6.3
120°-130°	708.5	8.0
130°-140°	756.9	8.5
140°-150°	707.8	8.0
150°-160°	570.9	6.4
160°-170°	368.4	4.2
170°-180°	127.0	1.4
0°-30°	1386.7	15.6
0°-40°	2231.6	25.2
0°-60°	3827.2	43.2
0°-90°	4791.7	54.1
90°-120°	833.0	9.4
90°-150°	3006.1	33.9
90°-180°	4072.0	45.9
0°-180°	8864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1842	1834	1816	1832	1829	175
15°	1753	1747	1726	1739	1729	494
25°	1592	1582	1562	1563	1558	733
35°	1376	1367	1346	1337	1329	861
45°	1128	1122	1101	1082	1074	871
55°	856	854	834	816	808	767
65°	584	576	560	547	543	576
75°	308	302	298	290	285	330
85°	82	79	79	76	76	88
90°	1	11	24	28	30	9
95°	60	20	31	38	38	72
105°	296	307	217	42	44	314
115°	555	561	570	580	584	548
125°	782	790	794	796	798	699
135°	974	980	984	986	984	750
145°	1123	1130	1132	1134	1134	703
155°	1238	1236	1237	1242	1236	570
165°	1305	1302	1301	1309	1302	369
175°	1336	1331	1332	1339	1331	127
180°	1336	1336	1336	1336	1336	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1848.0	1841.7	1824.3	1840.1	1838.5
5°	1841.7	1833.8	1816.4	1832.2	1829.0
7.5°	1827.5	1819.5	1802.1	1816.4	1814.8
10°	1808.5	1800.6	1780.0	1794.2	1791.1
12.5°	1783.2	1776.8	1757.8	1767.3	1765.7
15°	1753.1	1746.8	1726.2	1738.9	1729.4
17.5°	1719.9	1712.0	1691.4	1700.9	1697.7
20°	1681.9	1672.4	1651.8	1658.2	1653.4
22.5°	1639.2	1629.7	1609.1	1613.9	1607.5
25°	1591.7	1582.2	1561.6	1563.2	1558.5
27.5°	1542.7	1533.2	1511.0	1512.6	1507.8
30°	1488.9	1481.0	1458.8	1458.8	1447.7
32.5°	1435.1	1424.0	1408.2	1397.1	1392.3
35°	1376.5	1367.0	1346.5	1337.0	1329.1
37.5°	1318.0	1305.3	1284.8	1273.7	1268.9
40°	1256.3	1246.8	1224.6	1212.0	1205.6
42.5°	1194.6	1183.5	1161.3	1148.7	1142.4
45°	1128.1	1121.8	1101.2	1082.2	1074.3
47.5°	1063.2	1053.8	1034.8	1015.8	1009.5
50°	996.8	988.9	968.3	950.9	941.4
52.5°	927.2	922.4	900.3	886.0	876.5
55°	856.0	854.4	833.8	816.4	808.5
57.5°	789.5	783.2	767.4	751.6	742.1
60°	716.7	715.2	696.2	681.9	674.0
62.5°	651.9	647.1	628.1	613.9	609.2
65°	583.8	575.9	560.1	547.4	542.7
67.5°	511.1	504.7	492.1	481.0	474.7
70°	446.2	436.7	427.2	416.1	408.2
72.5°	378.1	371.8	360.7	351.3	348.1
75°	308.5	302.2	297.5	289.5	284.8
77.5°	246.8	243.7	237.3	231.0	231.0
80°	186.7	182.0	178.8	177.2	177.2
82.5°	128.2	128.2	128.2	125.0	123.4
85°	82.3	79.1	79.1	75.9	75.9
87.5°	41.1	36.4	34.8	33.2	33.2
90°	1.0	10.9	23.8	27.8	29.8
92.5°	22.8	16.9	25.8	32.8	33.7
95°	60.5	19.8	30.8	37.7	37.7
97.5°	110.2	82.4	31.8	39.7	40.7
100°	167.7	187.6	32.8	40.7	41.7
102.5°	233.2	246.1	73.4	40.7	42.7
105°	295.7	306.7	217.3	41.7	43.7
107.5°	362.2	371.2	386.1	233.2	103.2
110°	428.7	436.7	447.6	414.8	272.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.2	499.2	510.1	519.0	517.1
115°	554.8	560.7	569.7	579.6	583.5
117.5°	616.3	623.2	628.2	636.1	637.1
120°	672.9	681.8	684.8	692.7	692.7
122.5°	730.4	737.4	741.3	746.3	747.3
125°	782.0	790.0	793.9	795.9	797.9
127.5°	833.6	841.6	846.5	849.5	847.5
130°	881.3	889.2	893.2	897.2	895.2
132.5°	926.9	934.9	937.8	941.8	938.8
135°	973.6	979.5	983.5	986.5	983.5
137.5°	1013.3	1021.2	1023.2	1028.2	1026.2
140°	1053.0	1058.9	1061.9	1065.9	1063.9
142.5°	1089.7	1095.6	1098.6	1101.6	1098.6
145°	1123.4	1130.4	1132.4	1134.3	1134.3
147.5°	1156.2	1161.1	1163.1	1165.1	1160.2
150°	1186.0	1188.9	1190.9	1192.9	1189.9
152.5°	1212.7	1213.7	1214.7	1218.7	1213.7
155°	1237.6	1235.6	1236.6	1241.5	1235.6
157.5°	1257.4	1257.4	1256.4	1262.4	1254.4
160°	1275.3	1274.3	1273.3	1279.2	1272.3
162.5°	1292.1	1289.2	1288.2	1295.1	1289.2
165°	1305.0	1302.1	1301.1	1309.0	1302.1
167.5°	1316.0	1312.0	1312.0	1319.9	1312.0
170°	1324.9	1320.9	1320.9	1328.9	1320.9
172.5°	1330.8	1325.9	1326.9	1334.8	1325.9
175°	1335.8	1330.8	1331.8	1338.8	1330.8
177.5°	1337.8	1332.8	1333.8	1341.8	1331.8
180°	1335.8	1335.8	1335.8	1335.8	1335.8

(END OF REPORT)