

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: P1007924

Luminaire Tested: S122DIP-B1005D1080UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007924
REPORT IS A COMBINATION OF REPORTS P983532 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D1080UB2750-4F0-XX-W2A-D_2700K
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

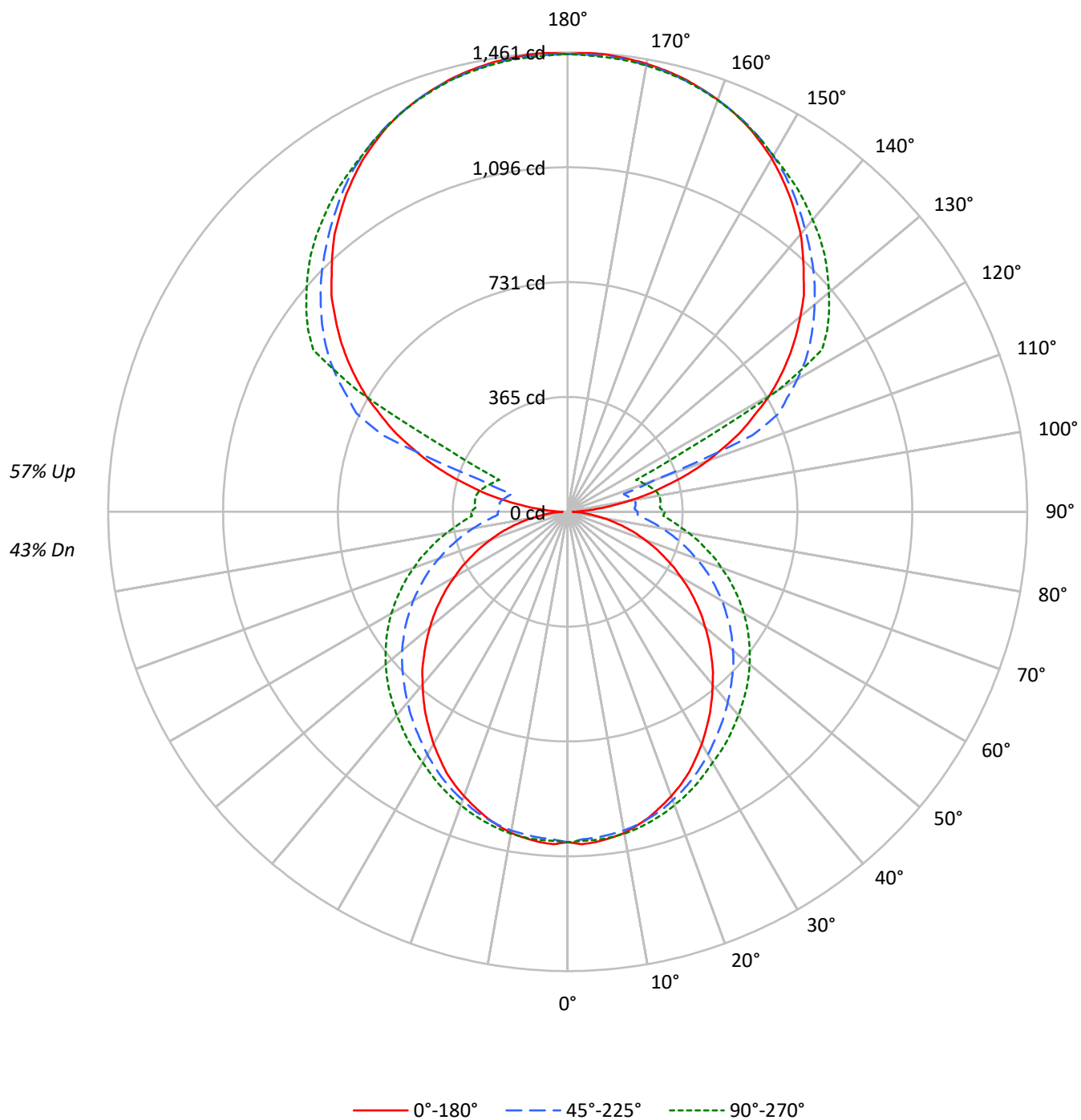
Lumens per Lamp: N/A
Luminaire Lumens: 8279.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
Input Voltage (V): 120
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

TEST NUMBER: P1007924

CATALOG NUMBER: S122DIP-B1005D1080UB2750-4F0-XX-W2A-D_2700K

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50
1	95	90	86	82	86	82	79	75	68	65	63	54	52	51	42	41	39
2	86	78	71	66	78	71	65	61	59	54	51	47	44	41	36	34	32
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	32	29	27
4	71	60	52	45	65	55	48	42	45	40	35	36	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	35	30	32	28	25	25	22	20
6	60	47	39	33	54	44	36	31	36	30	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	21	17	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16632	16632	16632
5°	16706	15921	15831
10°	16595	15371	15146
15°	16360	14799	14442
20°	16066	14201	13775
25°	15773	13627	13169
30°	15364	13044	12569
35°	14950	12483	12129
40°	14515	11997	11692
45°	14100	11555	11311
50°	13655	11149	10935
55°	13187	10718	10551
60°	12614	10269	10149
65°	12016	9752	9684
70°	11342	9198	9185
75°	10478	8643	8715
80°	9117	8066	8226
85°	7741	7522	7807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

TEST NUMBER: P1007924

CATALOG NUMBER: S122DIP-B1005D1080UB2750-4F0-XX-W2A-D_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.2
10°-20°	285.7	3.5
20°-30°	432.8	5.2
30°-40°	527.1	6.4
40°-50°	567.1	6.8
50°-60°	550.7	6.7
60°-70°	481.0	5.8
70°-80°	370.2	4.5
80°-90°	250.5	3.0
90°-100°	219.1	2.6
100°-110°	303.8	3.7
110°-120°	557.0	6.7
120°-130°	833.0	10.1
130°-140°	855.3	10.3
140°-150°	780.3	9.4
150°-160°	624.7	7.5
160°-170°	402.5	4.9
170°-180°	138.5	1.7
0°-30°	818.1	9.9
0°-40°	1345.2	16.2
0°-60°	2463.0	29.8
0°-90°	3564.6	43.1
90°-120°	1079.9	13.0
90°-150°	3548.5	42.9
90°-180°	4714.0	56.9
0°-180°	8279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1054	1049	1040	1049	1048	100
15°	1005	1008	1008	1022	1020	283
25°	914	924	938	956	961	420
35°	787	813	842	876	886	492
45°	646	687	740	787	802	498
55°	495	550	629	684	704	443
65°	338	413	502	565	585	336
75°	187	273	370	436	455	198
85°	55	149	247	311	332	58
90°	16	116	222	288	309	15
95°	81	117	216	279	296	91
105°	328	404	195	260	281	351
115°	612	646	741	299	240	602
125°	859	873	942	990	1007	767
135°	1061	1078	1103	1145	1155	820
145°	1229	1228	1246	1262	1265	769
155°	1354	1344	1357	1363	1354	624
165°	1426	1420	1423	1430	1423	403
175°	1459	1451	1454	1461	1450	139
180°	1456	1456	1456	1456	1456	

TEST NUMBER: P1007924

CATALOG NUMBER: S122DIP-B1005D1080UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1058.3	1053.7	1043.1	1050.7	1047.6
5°	1053.7	1049.2	1040.0	1049.2	1047.6
7.5°	1046.1	1043.1	1035.4	1046.1	1044.6
10°	1037.0	1033.9	1029.4	1041.5	1040.0
12.5°	1021.7	1023.3	1020.2	1032.4	1030.9
15°	1005.0	1008.0	1008.0	1021.7	1020.2
17.5°	983.7	989.8	994.3	1008.0	1008.0
20°	962.4	970.0	976.1	992.8	992.8
22.5°	939.5	948.7	957.8	974.5	977.6
25°	913.6	924.3	938.0	956.3	960.8
27.5°	883.2	899.9	915.2	938.0	941.0
30°	852.7	872.5	892.3	916.7	921.2
32.5°	819.2	842.1	866.4	895.4	904.5
35°	787.2	813.1	842.1	875.6	886.2
37.5°	752.2	781.2	817.7	854.2	864.9
40°	717.2	750.7	791.8	831.4	845.1
42.5°	683.7	717.2	765.9	810.1	823.8
45°	645.6	686.7	740.0	787.2	802.5
47.5°	609.1	653.2	714.2	762.9	779.6
50°	571.0	618.2	686.7	738.5	755.3
52.5°	534.5	584.7	657.8	711.1	729.4
55°	494.9	549.7	628.9	683.7	703.5
57.5°	456.8	517.7	596.9	656.3	676.1
60°	415.7	481.2	568.0	625.8	647.2
62.5°	379.2	447.7	534.5	596.9	616.7
65°	338.0	412.7	502.5	564.9	584.7
67.5°	301.5	379.2	470.5	533.0	554.3
70°	261.9	341.1	435.5	501.0	519.2
72.5°	225.4	307.6	403.5	467.5	490.3
75°	187.3	272.6	370.0	435.5	455.3
77.5°	150.7	239.1	338.0	403.5	424.8
80°	114.2	207.1	306.1	370.0	391.3
82.5°	83.7	175.1	275.6	339.6	359.4
85°	54.8	149.2	246.7	310.6	332.0
87.5°	33.5	124.9	222.3	284.7	304.5
90°	16.3	116.1	222.1	288.2	308.6
92.5°	40.0	116.5	212.6	274.1	293.4
95°	80.7	117.4	216.2	279.3	296.5
97.5°	133.9	113.0	218.2	277.7	297.0
100°	197.1	109.1	212.3	277.1	296.0
102.5°	265.0	313.2	203.7	270.1	290.1
105°	327.8	403.6	195.3	260.0	281.0
107.5°	402.6	465.5	186.7	250.0	271.0
110°	472.7	525.2	295.5	238.9	259.8

TEST NUMBER: P1007924

CATALOG NUMBER: S122DIP-B1005D1080UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	540.1	583.5	635.6	230.3	250.3
115°	611.7	646.3	741.3	299.2	240.2
117.5°	672.4	705.6	787.5	682.5	421.8
120°	741.9	763.8	843.7	898.9	773.5
122.5°	800.9	819.2	896.6	944.0	958.8
125°	859.3	873.0	941.8	990.3	1007.2
127.5°	914.1	927.3	984.2	1032.9	1047.6
130°	965.7	981.1	1024.6	1072.7	1083.9
132.5°	1018.4	1030.6	1065.0	1109.5	1120.7
135°	1061.1	1078.0	1102.6	1145.2	1155.3
137.5°	1107.5	1120.1	1138.2	1177.8	1185.2
140°	1152.7	1159.7	1174.3	1208.1	1212.0
142.5°	1190.7	1196.5	1210.2	1237.0	1239.3
145°	1229.2	1228.1	1246.0	1262.5	1264.8
147.5°	1263.9	1260.8	1278.7	1285.5	1285.8
150°	1297.7	1290.3	1307.1	1313.5	1308.2
152.5°	1326.1	1317.7	1333.5	1339.8	1332.4
155°	1353.5	1344.0	1356.6	1363.0	1354.5
157.5°	1375.6	1367.2	1376.6	1384.0	1375.6
160°	1394.6	1388.2	1394.6	1400.9	1393.5
162.5°	1411.4	1405.1	1410.4	1417.7	1408.2
165°	1426.2	1419.8	1423.0	1430.4	1423.0
167.5°	1437.7	1431.4	1434.6	1442.0	1432.5
170°	1447.2	1440.9	1443.0	1450.4	1440.9
172.5°	1453.5	1447.2	1449.3	1456.7	1447.2
175°	1458.8	1451.4	1453.5	1460.9	1450.4
177.5°	1460.9	1453.5	1454.6	1462.0	1452.5
180°	1455.6	1455.6	1455.6	1455.6	1455.6

(END OF REPORT)