

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: P1009004

Luminaire Tested: S122DIP-B485D1080UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009004
REPORT IS A COMBINATION OF REPORTS P984149 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D1080UB30-4F0-XX-W2A-F1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

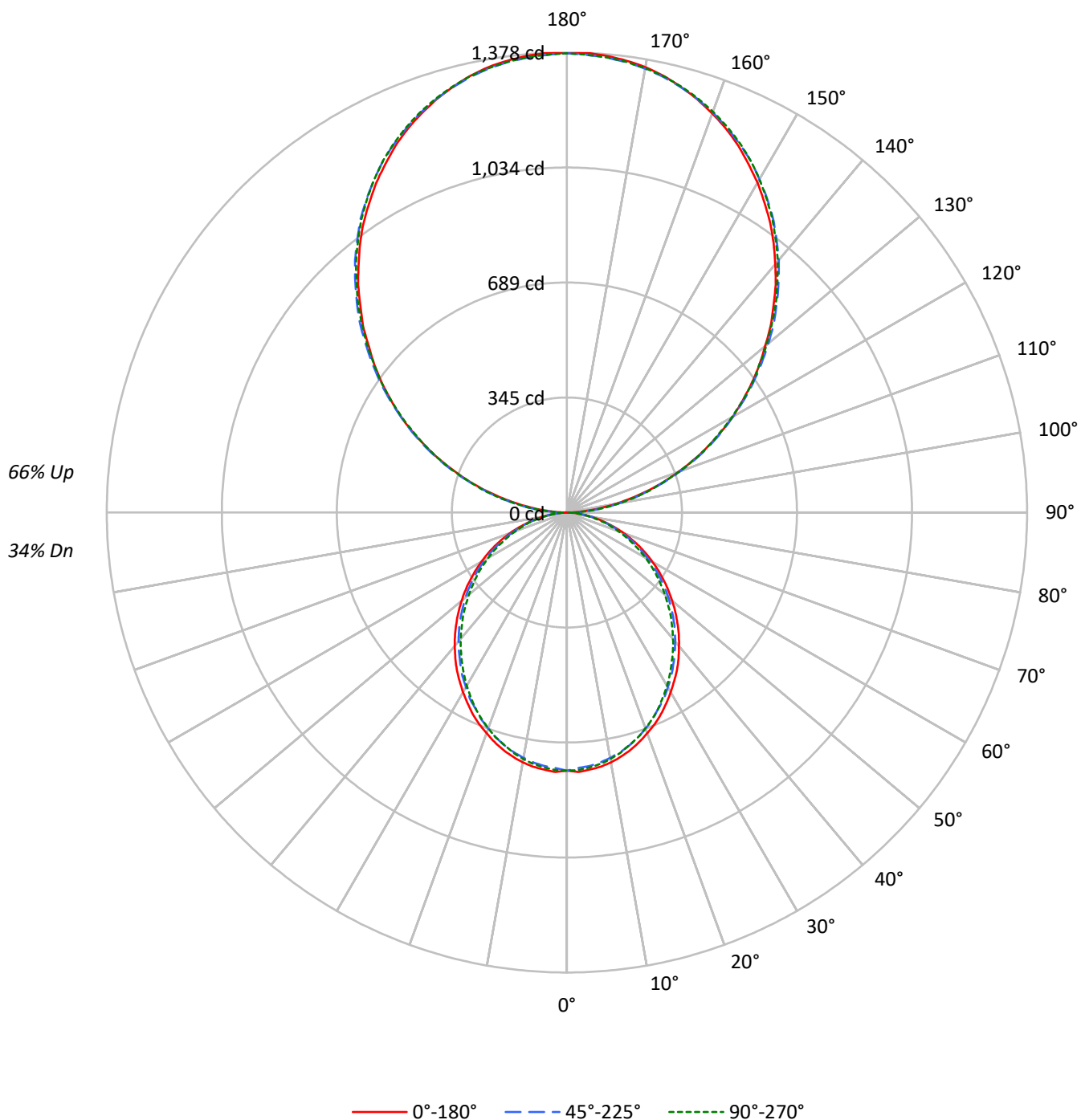
Lumens per Lamp: N/A
Luminaire Lumens: 5818.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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

TEST NUMBER: P1009004

CATALOG NUMBER: S122DIP-B485D1080UB30-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1009004

CATALOG NUMBER: S122DIP-B485D1080UB30-4F0-XX-W2A-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
RCR																					
0	103	103	103	103	93	93	93	93	74	74	74		57	57	57		41	41	41		34
1	94	90	86	83	85	81	78	75	65	63	61		50	49	47		36	36	35		29
2	86	78	73	68	77	71	66	62	57	53	50		44	42	40		32	31	29		24
3	78	69	62	56	70	62	56	51	50	46	42		39	36	33		28	27	25		20
4	71	61	53	47	64	55	49	44	45	40	36		35	31	29		25	23	21		17
5	65	54	46	40	59	49	42	37	40	35	31		31	28	25		23	21	19		15
6	60	49	41	35	54	44	37	32	36	31	27		28	24	22		21	18	16		13
7	56	44	36	31	50	40	33	28	32	27	24		25	22	19		19	16	15		12
8	52	40	32	27	46	36	29	25	29	24	21		23	20	17		17	15	13		11
9	48	36	29	24	43	33	26	22	27	22	19		21	18	15		16	14	12		10
10	45	33	26	21	40	30	24	20	25	20	17		20	16	14		15	12	11		9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12244	12244	12244
5°	12264	11672	11588
10°	12164	11139	10918
15°	11986	10603	10214
20°	11745	10020	9546
25°	11505	9411	8879
30°	11204	8840	8180
35°	10918	8236	7492
40°	10567	7641	6843
45°	10217	7050	6206
50°	9836	6449	5545
55°	9433	5807	4919
60°	8982	5109	4268
65°	8489	4404	3584
70°	7860	3628	2894
75°	6993	2796	2236
80°	5940	1900	1438
85°	4308	884	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10217 cd/sqm

TEST NUMBER: P1009004

CATALOG NUMBER: S122DIP-B485D1080UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.3
10°-20°	204.8	3.5
20°-30°	301.0	5.2
30°-40°	349.6	6.0
40°-50°	349.2	6.0
50°-60°	304.5	5.2
60°-70°	225.1	3.9
70°-80°	127.3	2.2
80°-90°	37.5	0.6
90°-100°	85.1	1.5
100°-110°	270.5	4.6
110°-120°	462.9	8.0
120°-130°	608.8	10.5
130°-140°	683.4	11.7
140°-150°	670.1	11.5
150°-160°	562.1	9.7
160°-170°	372.8	6.4
170°-180°	130.3	2.2
0°-30°	578.7	9.9
0°-40°	928.3	16.0
0°-60°	1582.0	27.2
0°-90°	1971.9	33.9
90°-120°	818.5	14.1
90°-150°	2780.8	47.8
90°-180°	3846.0	66.1
0°-180°	5818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	774	771	762	768	767	73
15°	736	732	722	725	722	207
25°	666	660	648	649	648	307
35°	575	568	556	551	547	359
45°	468	463	452	443	440	361
55°	354	350	341	332	328	317
65°	239	234	227	220	216	236
75°	125	124	120	115	117	133
85°	30	30	29	27	26	34
90°	1	15	41	38	40	6
95°	60	72	74	74	72	67
105°	250	253	255	258	258	264
115°	464	471	469	468	464	459
125°	676	686	683	679	678	604
135°	874	887	889	888	885	675
145°	1061	1069	1076	1077	1073	663
155°	1213	1217	1220	1226	1222	558
165°	1320	1319	1319	1327	1321	372
175°	1373	1370	1368	1376	1369	130
180°	1376	1376	1376	1376	1376	

TEST NUMBER: P1009004

CATALOG NUMBER: S122DIP-B485D1080UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.5	773.5	773.5	773.5	773.5
2.5°	778.0	774.3	766.1	773.5	772.0
5°	773.5	770.6	762.4	768.3	766.8
7.5°	768.3	763.9	755.7	761.6	760.1
10°	760.1	754.9	746.0	752.0	749.7
12.5°	749.0	744.5	735.6	739.3	737.8
15°	736.3	731.9	722.2	725.2	721.5
17.5°	720.7	716.3	706.6	710.3	706.6
20°	703.6	699.2	688.7	691.0	688.0
22.5°	686.5	679.8	670.2	670.2	668.7
25°	666.4	660.5	647.8	649.3	647.8
27.5°	644.1	638.9	629.2	627.0	623.3
30°	621.8	615.9	604.7	602.5	599.5
32.5°	598.0	593.5	581.6	577.2	574.2
35°	574.9	567.5	555.6	551.1	547.4
37.5°	548.9	542.2	530.3	525.1	521.4
40°	522.1	516.2	504.3	497.6	494.6
42.5°	496.1	490.2	478.3	470.8	466.4
45°	467.8	462.6	451.5	443.3	440.3
47.5°	440.3	435.1	423.2	415.0	410.6
50°	411.3	407.6	397.2	386.8	383.0
52.5°	383.0	377.8	368.2	360.0	354.8
55°	354.0	349.6	340.7	331.7	328.0
57.5°	325.0	321.3	311.6	302.7	299.7
60°	296.0	293.1	282.6	274.5	272.2
62.5°	267.8	262.6	255.1	247.7	244.7
65°	238.8	234.3	226.9	220.2	216.4
67.5°	209.0	205.3	198.6	193.4	190.4
70°	181.5	178.5	171.8	166.6	163.6
72.5°	153.2	150.2	146.5	141.3	139.1
75°	125.0	123.5	119.7	115.3	116.8
77.5°	99.7	96.7	95.2	93.0	90.7
80°	74.4	73.6	72.1	69.9	68.4
82.5°	50.6	50.6	49.8	46.9	46.9
85°	30.5	29.8	29.0	26.8	26.0
87.5°	13.4	11.9	10.4	8.2	7.4
90°	1.2	15.1	40.6	38.3	39.5
92.5°	25.5	34.8	36.0	37.1	37.1
95°	60.4	72.0	74.3	74.3	72.0
97.5°	101.0	111.4	116.1	116.1	116.1
100°	147.4	156.7	160.2	160.2	159.0
102.5°	196.2	203.2	207.8	209.0	207.8
105°	249.6	253.1	255.4	257.7	257.7
107.5°	303.0	307.6	307.6	308.8	303.0
110°	354.1	361.0	361.0	361.0	357.6

TEST NUMBER: P1009004

CATALOG NUMBER: S122DIP-B485D1080UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	409.8	416.8	415.6	412.1	409.8
115°	464.4	471.3	469.0	467.8	464.4
117.5°	518.9	528.2	522.4	518.9	515.4
120°	573.5	582.8	573.5	573.5	570.0
122.5°	623.4	635.0	629.2	625.7	623.4
125°	675.6	686.1	682.6	679.1	678.0
127.5°	726.7	739.5	734.8	730.2	726.7
130°	774.3	789.4	787.1	784.8	780.1
132.5°	827.7	839.3	840.5	834.7	831.2
135°	874.2	886.9	889.2	888.1	884.6
137.5°	925.2	935.7	938.0	936.8	932.2
140°	970.5	981.0	986.8	986.8	982.1
142.5°	1016.9	1027.4	1030.9	1032.0	1027.4
145°	1061.1	1069.2	1076.1	1077.3	1072.7
147.5°	1100.5	1111.0	1115.6	1117.9	1113.3
150°	1141.2	1148.1	1152.8	1156.3	1152.8
152.5°	1177.1	1184.1	1189.9	1194.6	1189.9
155°	1213.1	1216.6	1220.1	1225.9	1222.4
157.5°	1244.5	1246.8	1249.1	1257.2	1251.4
160°	1272.3	1274.7	1275.8	1282.8	1278.1
162.5°	1297.9	1297.9	1299.0	1307.2	1301.4
165°	1319.9	1318.8	1318.8	1326.9	1321.1
167.5°	1339.7	1336.2	1336.2	1344.3	1338.5
170°	1354.8	1351.3	1350.1	1358.2	1351.3
172.5°	1365.2	1361.7	1360.6	1368.7	1361.7
175°	1373.3	1369.9	1367.5	1375.7	1368.7
177.5°	1378.0	1374.5	1372.2	1379.1	1372.2
180°	1375.7	1375.7	1375.7	1375.7	1375.7

(END OF REPORT)