

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: P1008742

Luminaire Tested: S122DIP-B1005D925UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008742
REPORT IS A COMBINATION OF REPORTS P983794 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D925UB35-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

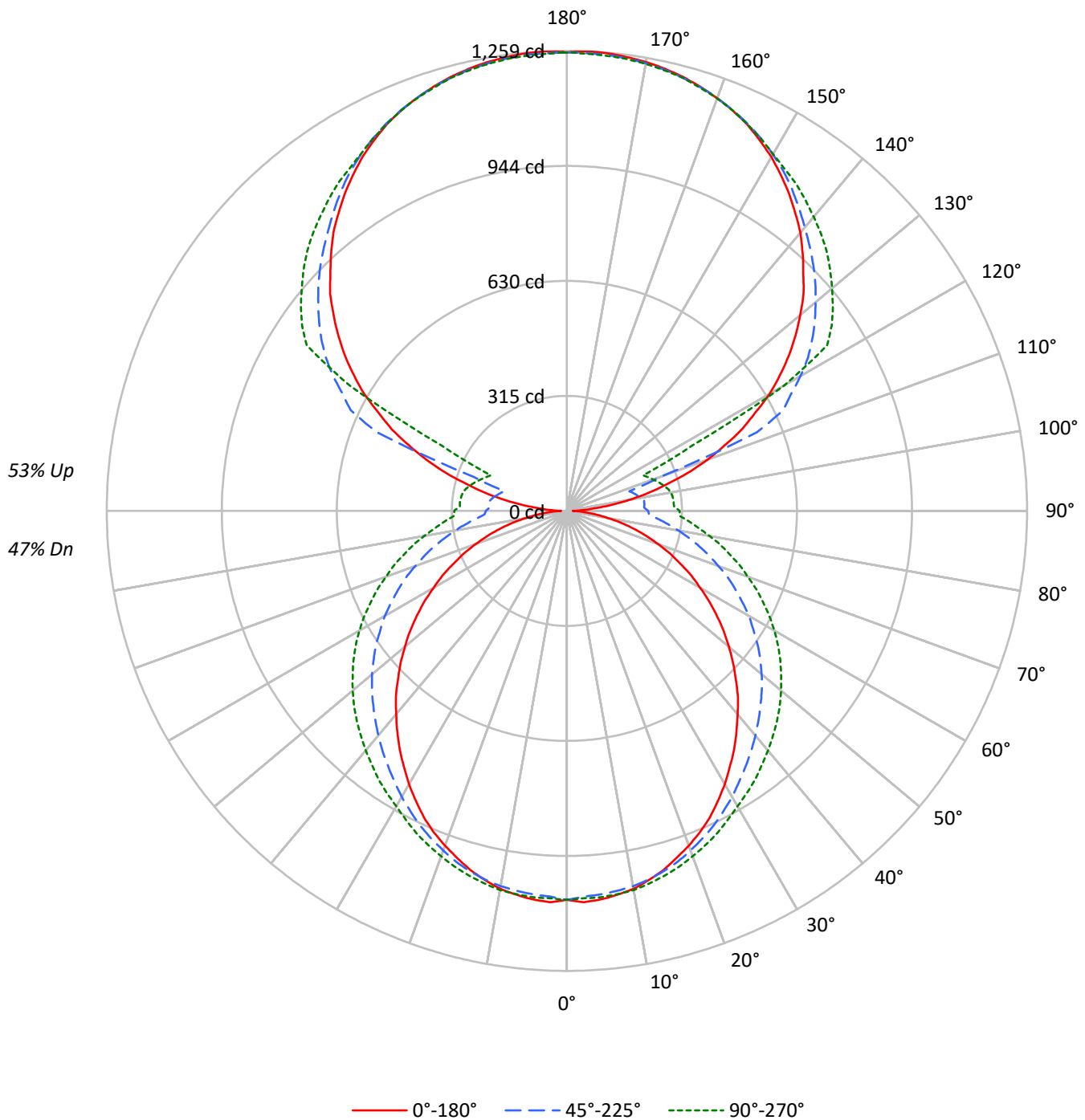
Lumens per Lamp: N/A
Luminaire Lumens: 7742.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

TEST NUMBER: P1008742

CATALOG NUMBER: S122DIP-B1005D925UB35-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1008742

CATALOG NUMBER: S122DIP-B1005D925UB35-4F0-XX-W2A-D

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	67	67	67	53	53	53	47		
1	96	91	86	82	87	83	79	76	69	67	64	56	54	53	45	43	42	36		
2	86	78	72	66	79	72	66	61	60	56	52	49	46	43	38	36	34	29		
3	79	68	61	54	72	63	56	51	52	47	43	43	39	36	34	31	29	24		
4	72	60	52	46	65	55	48	42	46	41	36	38	34	30	30	27	24	20		
5	66	53	45	39	60	49	42	36	41	35	31	34	29	26	27	23	21	17		
6	60	48	39	33	55	44	37	31	37	31	27	30	26	22	24	21	18	15		
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	22	19	16	13		
8	52	39	31	26	47	36	29	24	30	25	21	25	21	17	20	17	14	12		
9	48	35	28	23	44	33	26	21	28	22	18	23	19	16	19	15	13	11		
10	45	32	25	20	41	30	23	19	26	20	16	21	17	14	17	14	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16847	16847	16847
5°	16924	16128	16037
10°	16809	15569	15342
15°	16572	14992	14631
20°	16273	14385	13954
25°	15978	13805	13340
30°	15564	13214	12733
35°	15146	12644	12286
40°	14704	12153	11844
45°	14283	11705	11458
50°	13832	11295	11076
55°	13358	10856	10688
60°	12778	10401	10279
65°	12172	9879	9810
70°	11489	9316	9305
75°	10612	8755	8828
80°	9237	8169	8334
85°	7840	7620	7908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14283 cd/sqm

TEST NUMBER: P1008742

CATALOG NUMBER: S122DIP-B1005D925UB35-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.3
10°-20°	289.4	3.7
20°-30°	438.5	5.7
30°-40°	533.9	6.9
40°-50°	574.5	7.4
50°-60°	557.9	7.2
60°-70°	487.2	6.3
70°-80°	375.0	4.8
80°-90°	253.4	3.3
90°-100°	214.6	2.8
100°-110°	280.8	3.6
110°-120°	492.6	6.4
120°-130°	725.1	9.4
130°-140°	740.3	9.6
140°-150°	673.1	8.7
150°-160°	538.5	7.0
160°-170°	347.0	4.5
170°-180°	119.4	1.5
0°-30°	828.7	10.7
0°-40°	1362.6	17.6
0°-60°	2495.0	32.2
0°-90°	3610.5	46.6
90°-120°	988.1	12.8
90°-150°	3126.5	40.4
90°-180°	4132.0	53.4
0°-180°	7742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1067	1063	1054	1063	1061	101
15°	1018	1021	1021	1035	1034	287
25°	926	936	950	969	973	426
35°	798	824	853	887	898	498
45°	654	696	750	798	813	505
55°	501	557	637	693	713	448
65°	342	418	509	572	592	340
75°	190	276	375	441	461	201
85°	56	151	250	315	336	59
90°	16	116	222	288	308	14
95°	71	114	213	276	294	79
105°	284	356	188	252	273	304
115°	528	561	653	279	230	520
125°	741	753	820	868	884	662
135°	915	930	953	995	1005	707
145°	1060	1059	1074	1090	1093	663
155°	1167	1159	1170	1175	1168	538
165°	1229	1224	1227	1233	1227	347
175°	1258	1251	1253	1259	1250	120
180°	1255	1255	1255	1255	1255	

TEST NUMBER: P1008742

CATALOG NUMBER: S122DIP-B1005D925UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1072.0	1067.4	1056.6	1064.3	1061.2
5°	1067.4	1062.8	1053.5	1062.8	1061.2
7.5°	1059.7	1056.6	1048.9	1059.7	1058.1
10°	1050.4	1047.3	1042.7	1055.0	1053.5
12.5°	1035.0	1036.5	1033.5	1045.8	1044.2
15°	1018.0	1021.1	1021.1	1035.0	1033.5
17.5°	996.4	1002.6	1007.2	1021.1	1021.1
20°	974.8	982.6	988.7	1005.7	1005.7
22.5°	951.7	961.0	970.2	987.2	990.3
25°	925.5	936.3	950.2	968.7	973.3
27.5°	894.6	911.6	927.0	950.2	953.2
30°	863.8	883.8	903.9	928.6	933.2
32.5°	829.8	853.0	877.7	907.0	916.2
35°	797.5	823.7	853.0	886.9	897.7
37.5°	762.0	791.3	828.3	865.3	876.1
40°	726.5	760.4	802.1	842.2	856.1
42.5°	692.6	726.5	775.9	820.6	834.5
45°	654.0	695.7	749.6	797.5	812.9
47.5°	617.0	661.7	723.4	772.8	789.7
50°	578.4	626.2	695.7	748.1	765.1
52.5°	541.4	592.3	666.3	720.3	738.8
55°	501.3	556.8	637.0	692.6	712.6
57.5°	462.7	524.4	604.6	664.8	684.9
60°	421.1	487.4	575.3	634.0	655.5
62.5°	384.1	453.5	541.4	604.6	624.7
65°	342.4	418.0	509.0	572.3	592.3
67.5°	305.4	384.1	476.6	539.9	561.5
70°	265.3	345.5	441.1	507.5	526.0
72.5°	228.3	311.6	408.8	473.5	496.7
75°	189.7	276.1	374.8	441.1	461.2
77.5°	152.7	242.2	342.4	408.8	430.3
80°	115.7	209.8	310.0	374.8	396.4
82.5°	84.8	177.4	279.2	344.0	364.0
85°	55.5	151.2	249.9	314.7	336.3
87.5°	33.9	126.5	225.2	288.4	308.5
90°	16.3	115.8	221.8	288.0	308.3
92.5°	36.6	114.7	211.5	273.5	292.9
95°	71.3	113.9	212.8	276.0	293.5
97.5°	117.0	108.9	212.9	272.7	292.1
100°	171.5	104.2	206.0	270.3	289.1
102.5°	229.9	279.0	197.0	262.6	282.2
105°	283.7	355.7	188.1	252.0	272.6
107.5°	348.2	407.9	179.1	241.5	262.1
110°	408.4	458.3	271.5	230.1	250.6

TEST NUMBER: P1008742

CATALOG NUMBER: S122DIP-B1005D925UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	466.6	507.5	563.1	221.1	240.7
115°	528.3	560.6	652.7	278.6	230.3
117.5°	580.3	610.8	691.1	607.4	384.9
120°	640.2	660.0	738.1	792.2	686.6
122.5°	691.0	707.2	782.3	829.5	844.3
125°	741.3	753.1	819.7	867.7	884.3
127.5°	788.5	799.6	855.0	902.6	917.3
130°	833.0	845.9	888.3	935.4	946.8
132.5°	878.4	888.6	921.8	965.5	976.9
135°	914.9	929.5	953.1	994.6	1005.1
137.5°	954.9	965.8	982.7	1021.1	1029.1
140°	993.9	999.7	1012.8	1045.7	1050.3
142.5°	1026.6	1031.5	1043.3	1069.1	1072.2
145°	1059.6	1058.7	1074.2	1089.8	1093.0
147.5°	1089.6	1086.9	1102.3	1108.4	1109.4
150°	1118.7	1112.3	1126.8	1132.3	1127.7
152.5°	1143.2	1135.9	1149.5	1155.0	1148.6
155°	1166.8	1158.6	1169.5	1175.0	1167.7
157.5°	1185.8	1178.6	1186.8	1193.1	1185.8
160°	1202.2	1196.7	1202.2	1207.6	1201.3
162.5°	1216.7	1211.3	1215.8	1222.2	1214.0
165°	1229.4	1224.0	1226.7	1233.1	1226.7
167.5°	1239.4	1234.0	1236.7	1243.1	1234.9
170°	1247.6	1242.1	1244.0	1250.3	1242.1
172.5°	1253.0	1247.6	1249.4	1255.8	1247.6
175°	1257.6	1251.2	1253.0	1259.4	1250.3
177.5°	1259.4	1253.0	1253.9	1260.3	1252.1
180°	1254.9	1254.9	1254.9	1254.9	1254.9

(END OF REPORT)