

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: P1008753

Luminaire Tested: S122DIP-B1005D925UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008753
REPORT IS A COMBINATION OF REPORTS P983805 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D925UB40-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

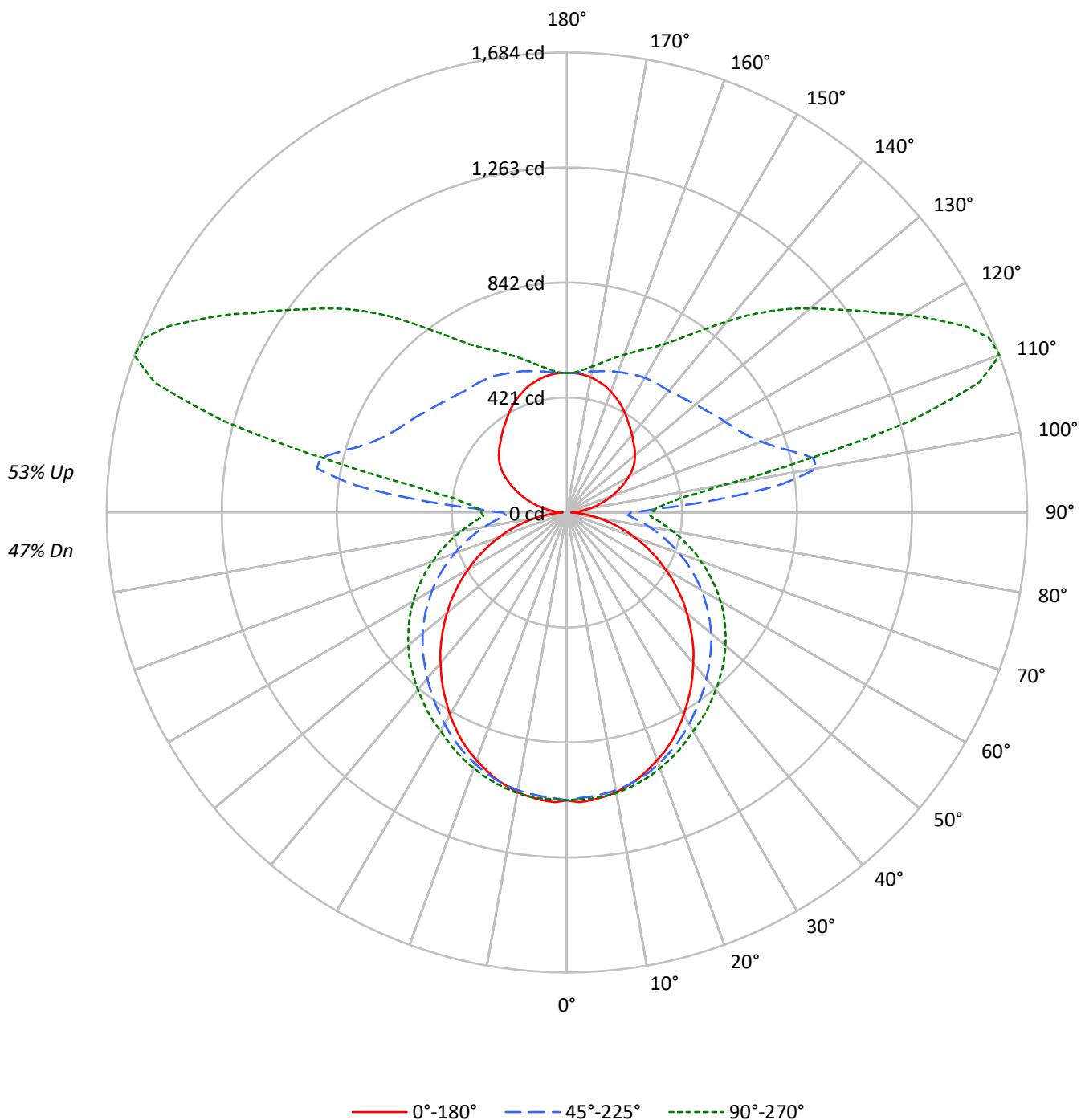
Lumens per Lamp: N/A
Luminaire Lumens: 7586.1 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1008753

CATALOG NUMBER: S122DIP-B1005D925UB40-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1008753

CATALOG NUMBER: S122DIP-B1005D925UB40-4F0-XX-W2A-D4

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53
1	96	91	86	82	88	83	80	76	70	67	64	57	55	53	45	44	42
2	87	78	72	66	79	72	66	61	60	56	52	49	46	43	39	37	35
3	79	69	61	54	72	63	56	51	53	47	43	43	39	36	34	31	29
4	72	60	52	46	65	55	48	42	46	41	36	38	34	30	30	27	24
5	66	54	45	39	60	49	42	36	41	35	31	34	29	26	27	24	21
6	60	48	39	33	55	44	37	31	37	31	27	30	26	23	24	21	18
7	56	43	35	29	51	40	32	27	33	28	23	28	23	20	22	19	16
8	52	39	31	26	47	36	29	24	30	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	21	28	22	18	23	19	16	19	15	13
10	45	32	25	20	41	30	23	19	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16681	16681	16681
5°	16757	15969	15880
10°	16645	15416	15191
15°	16409	14845	14486
20°	16112	14243	13816
25°	15821	13668	13209
30°	15411	13083	12607
35°	14996	12520	12166
40°	14558	12033	11726
45°	14144	11591	11345
50°	13695	11183	10966
55°	13227	10751	10583
60°	12651	10300	10179
65°	12055	9782	9714
70°	11377	9225	9213
75°	10511	8668	8741
80°	9141	8090	8252
85°	7769	7544	7828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14144 cd/sqm

TEST NUMBER: P1008753

CATALOG NUMBER: S122DIP-B1005D925UB40-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.3
10°-20°	286.5	3.8
20°-30°	434.1	5.7
30°-40°	528.7	7.0
40°-50°	568.8	7.5
50°-60°	552.4	7.3
60°-70°	482.4	6.4
70°-80°	371.3	4.9
80°-90°	251.9	3.3
90°-100°	378.7	5.0
100°-110°	825.4	10.9
110°-120°	818.7	10.8
120°-130°	651.3	8.6
130°-140°	505.7	6.7
140°-150°	370.6	4.9
150°-160°	258.3	3.4
160°-170°	152.1	2.0
170°-180°	49.5	0.7
0°-30°	820.6	10.8
0°-40°	1349.2	17.8
0°-60°	2470.4	32.6
0°-90°	3576.0	47.1
90°-120°	2022.7	26.7
90°-150°	3550.3	46.8
90°-180°	4010.0	52.9
0°-180°	7586.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1057	1052	1043	1052	1051	100
15°	1008	1011	1011	1025	1023	284
25°	916	927	941	959	964	421
35°	790	816	845	878	889	494
45°	648	689	742	790	805	500
55°	496	551	631	686	706	444
65°	339	414	504	567	586	337
75°	188	273	371	437	457	199
85°	55	150	247	312	333	58
90°	16	117	235	295	313	13
95°	47	168	561	379	364	45
105°	128	233	859	1486	1309	136
115°	217	290	701	1394	1611	215
125°	298	352	637	1112	1289	265
135°	347	414	596	905	1041	269
145°	395	454	576	724	799	248
155°	449	485	559	632	657	207
165°	489	504	535	568	577	138
175°	510	510	515	521	520	48
180°	511	511	511	511	511	

TEST NUMBER: P1008753

CATALOG NUMBER: S122DIP-B1005D925UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.8	1053.8	1053.8	1053.8	1053.8
2.5°	1061.5	1056.9	1046.2	1053.8	1050.8
5°	1056.9	1052.3	1043.1	1052.3	1050.8
7.5°	1049.2	1046.2	1038.5	1049.2	1047.7
10°	1040.1	1037.0	1032.4	1044.7	1043.1
12.5°	1024.8	1026.3	1023.3	1035.5	1034.0
15°	1008.0	1011.1	1011.1	1024.8	1023.3
17.5°	986.6	992.7	997.3	1011.1	1011.1
20°	965.2	972.9	979.0	995.8	995.8
22.5°	942.3	951.5	960.7	977.5	980.5
25°	916.4	927.1	940.8	959.1	963.7
27.5°	885.8	902.6	917.9	940.8	943.9
30°	855.3	875.1	895.0	919.4	924.0
32.5°	821.7	844.6	869.0	898.0	907.2
35°	789.6	815.6	844.6	878.2	888.9
37.5°	754.5	783.5	820.1	856.8	867.5
40°	719.3	752.9	794.2	833.9	847.6
42.5°	685.7	719.3	768.2	812.5	826.3
45°	647.6	688.8	742.3	789.6	804.9
47.5°	610.9	655.2	716.3	765.2	782.0
50°	572.7	620.1	688.8	740.7	757.5
52.5°	536.1	586.5	659.8	713.2	731.6
55°	496.4	551.3	630.8	685.7	705.6
57.5°	458.2	519.3	598.7	658.3	678.1
60°	416.9	482.6	569.7	627.7	649.1
62.5°	380.3	449.0	536.1	598.7	618.5
65°	339.1	413.9	504.0	566.6	586.5
67.5°	302.4	380.3	471.9	534.5	555.9
70°	262.7	342.1	436.8	502.5	520.8
72.5°	226.0	308.5	404.7	468.9	491.8
75°	187.9	273.4	371.1	436.8	456.7
77.5°	151.2	239.8	339.1	404.7	426.1
80°	114.5	207.7	307.0	371.1	392.5
82.5°	84.0	175.6	276.4	340.6	360.4
85°	55.0	149.7	247.4	311.6	332.9
87.5°	33.6	125.2	223.0	285.6	305.5
90°	16.3	117.2	235.0	294.6	313.4
92.5°	28.4	141.4	339.2	317.2	325.6
95°	46.6	168.5	560.7	379.1	364.0
97.5°	61.8	187.9	792.7	513.3	427.4
100°	86.3	203.8	928.8	790.4	577.7
102.5°	107.4	218.8	923.0	1179.4	899.5
105°	127.5	232.6	859.3	1486.0	1308.8
107.5°	151.0	246.6	799.6	1589.2	1580.5
110°	173.1	261.2	757.0	1558.4	1684.3

TEST NUMBER: P1008753

CATALOG NUMBER: S122DIP-B1005D925UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.7	276.1	724.7	1484.4	1671.6
115°	217.3	289.6	700.7	1394.5	1611.3
117.5°	239.4	304.7	682.2	1309.6	1526.3
120°	261.0	319.2	666.2	1231.0	1445.8
122.5°	281.6	335.8	653.0	1168.9	1359.4
125°	297.8	351.8	637.4	1111.5	1288.8
127.5°	312.6	368.4	625.4	1059.4	1220.6
130°	325.3	384.6	614.2	1008.6	1162.2
132.5°	337.1	400.4	604.0	956.0	1103.4
135°	347.3	414.2	595.5	904.6	1040.6
137.5°	358.1	425.9	587.9	852.6	978.3
140°	370.9	435.2	580.8	805.6	914.0
142.5°	383.7	444.1	577.7	761.5	851.3
145°	394.9	453.9	575.7	724.0	798.8
147.5°	408.7	461.8	572.8	691.2	749.8
150°	422.5	469.6	569.8	668.0	710.3
152.5°	436.2	477.4	564.9	649.9	681.8
155°	449.0	484.8	559.0	632.2	657.3
157.5°	459.8	490.7	553.1	615.5	635.6
160°	470.6	496.6	547.2	598.8	615.0
162.5°	481.4	501.0	542.3	583.0	595.4
165°	489.3	504.0	535.4	567.8	576.7
167.5°	496.1	507.0	529.5	554.1	559.0
170°	503.0	508.4	524.6	541.3	543.3
172.5°	506.9	509.9	518.7	530.0	530.5
175°	509.9	510.4	514.8	521.2	519.7
177.5°	511.9	510.9	510.9	514.8	511.9
180°	510.9	510.9	510.9	510.9	510.9

(END OF REPORT)