

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: P1008752

Luminaire Tested: S122DIP-B1005D925UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008752
REPORT IS A COMBINATION OF REPORTS P983804 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-D1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

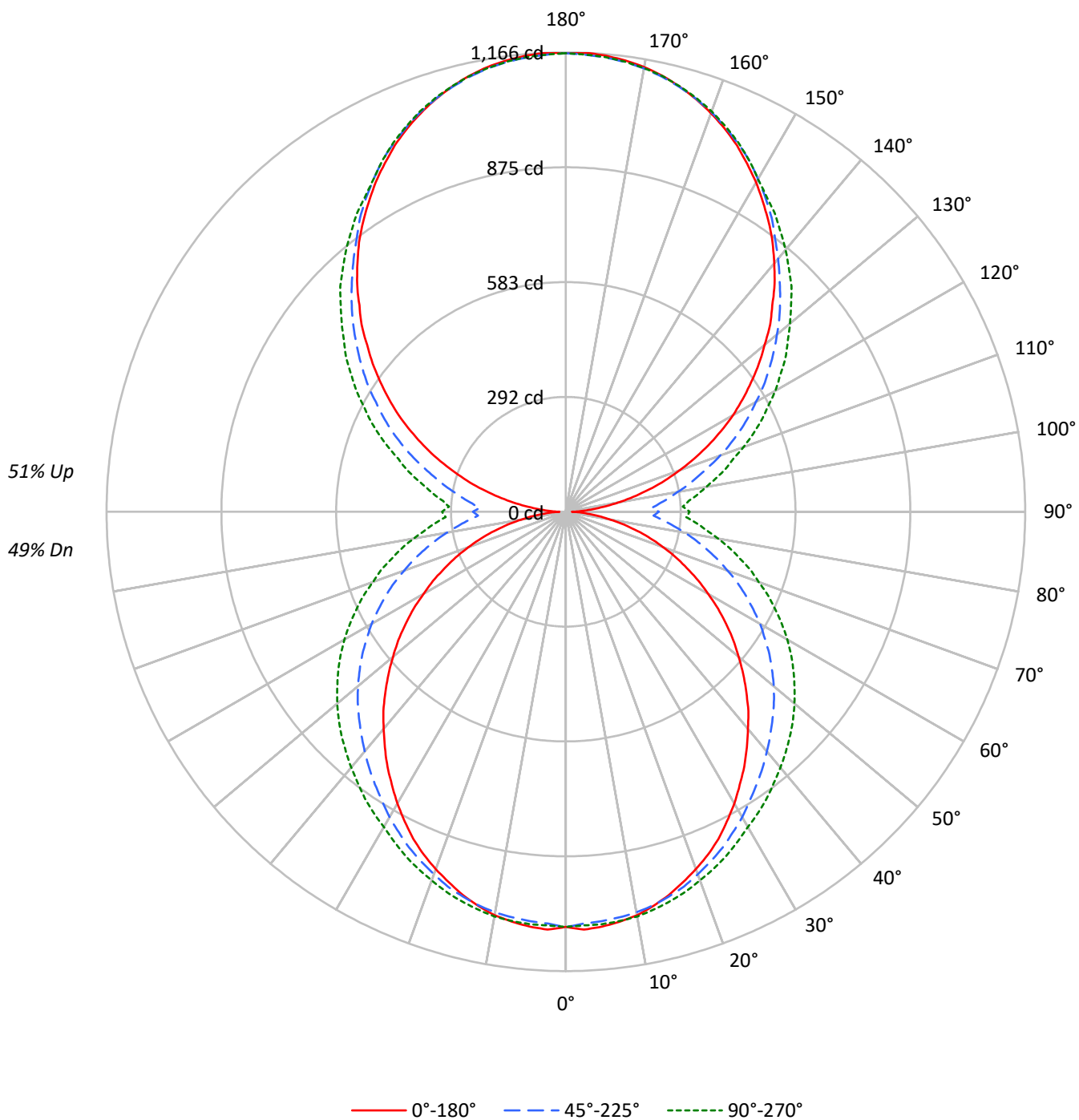
Lumens per Lamp: N/A
Luminaire Lumens: 7279.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83		68	68	68		55
1	96	91	87	83	88	84	80	77	70	68	65		58	56	54		47
2	87	79	72	66	80	73	67	62	61	56	53		50	47	44		40
3	79	69	61	55	72	63	56	51	53	48	44		44	40	37		35
4	72	61	52	46	66	56	48	43	47	41	37		39	34	31		31
5	66	54	45	39	60	50	42	36	42	36	31		35	30	26		28
6	61	48	40	33	55	44	37	31	38	32	27		31	27	23		25
7	56	43	35	29	51	40	33	27	34	28	24		28	24	20		23
8	52	39	31	26	48	36	29	24	31	25	21		26	21	18		21
9	48	36	28	23	44	33	26	21	28	23	19		24	19	16		19
10	45	33	25	20	41	30	24	19	26	21	17		22	17	14		18

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.4
10°-20°	286.5	3.9
20°-30°	434.1	6.0
30°-40°	528.7	7.3
40°-50°	568.8	7.8
50°-60°	552.4	7.6
60°-70°	482.4	6.6
70°-80°	371.3	5.1
80°-90°	252.0	3.5
90°-100°	243.6	3.3
100°-110°	354.2	4.9
110°-120°	474.5	6.5
120°-130°	561.3	7.7
130°-140°	597.6	8.2
140°-150°	570.4	7.8
150°-160°	475.7	6.5
160°-170°	315.5	4.3
170°-180°	110.3	1.5
0°-30°	820.6	11.3
0°-40°	1349.2	18.5
0°-60°	2470.4	33.9
0°-90°	3576.1	49.1
90°-120°	1072.2	14.7
90°-150°	2801.5	38.5
90°-180°	3703.0	50.9
0°-180°	7279.0	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	236	295	314	14
95°	63	145	238	297	313	67
105°	219	266	347	403	420	232
115°	399	422	488	533	547	394
125°	575	584	630	668	681	514
135°	741	752	769	800	810	573
145°	898	905	911	921	924	561
155°	1027	1030	1032	1037	1034	473
165°	1117	1116	1116	1123	1118	315
175°	1162	1159	1157	1164	1158	110
180°	1164	1164	1164	1164	1164	

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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	116.7	236.0	295.1	314.4
92.5°	35.3	124.2	218.4	278.8	297.1
95°	63.3	144.9	238.5	296.6	312.9
97.5°	96.2	170.7	263.1	319.7	338.0
100°	135.5	199.8	288.3	344.8	360.6
102.5°	175.2	231.5	317.8	373.8	389.6
105°	218.8	266.1	347.4	402.9	419.7
107.5°	264.0	304.6	381.0	433.9	445.8
110°	305.7	342.2	417.0	465.9	479.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.9	383.2	452.5	498.4	513.3
115°	399.1	421.7	488.5	533.4	547.3
117.5°	443.7	463.8	523.0	565.9	578.2
120°	489.9	503.9	557.1	599.8	613.7
122.5°	532.1	543.5	595.1	633.4	645.1
125°	574.8	583.7	629.5	667.9	680.6
127.5°	618.1	627.3	664.7	698.8	709.7
130°	658.4	669.5	699.7	734.4	742.7
132.5°	703.5	711.8	735.6	765.9	775.2
135°	741.2	752.0	769.3	800.4	809.7
137.5°	784.5	793.3	803.0	831.0	837.8
140°	822.8	830.1	838.1	862.5	867.8
142.5°	862.1	869.4	872.4	891.6	895.4
145°	897.9	904.8	910.7	920.9	924.5
147.5°	931.3	940.1	944.1	947.5	948.2
150°	965.7	971.6	975.5	978.5	975.5
152.5°	996.1	1002.0	1006.9	1010.9	1006.9
155°	1026.6	1029.5	1032.5	1037.4	1034.5
157.5°	1053.1	1055.1	1057.0	1063.9	1059.0
160°	1076.7	1078.7	1079.6	1085.5	1081.6
162.5°	1098.3	1098.3	1099.3	1106.2	1101.3
165°	1117.0	1116.0	1116.0	1122.9	1118.0
167.5°	1133.7	1130.7	1130.7	1137.6	1132.7
170°	1146.4	1143.5	1142.5	1149.4	1143.5
172.5°	1155.3	1152.3	1151.4	1158.2	1152.3
175°	1162.2	1159.2	1157.3	1164.1	1158.2
177.5°	1166.1	1163.1	1161.2	1167.1	1161.2
180°	1164.1	1164.1	1164.1	1164.1	1164.1

(END OF REPORT)