

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: P1008965

Luminaire Tested: S122DIP-B290D925UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008965
REPORT IS A COMBINATION OF REPORTS P984095 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D925UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

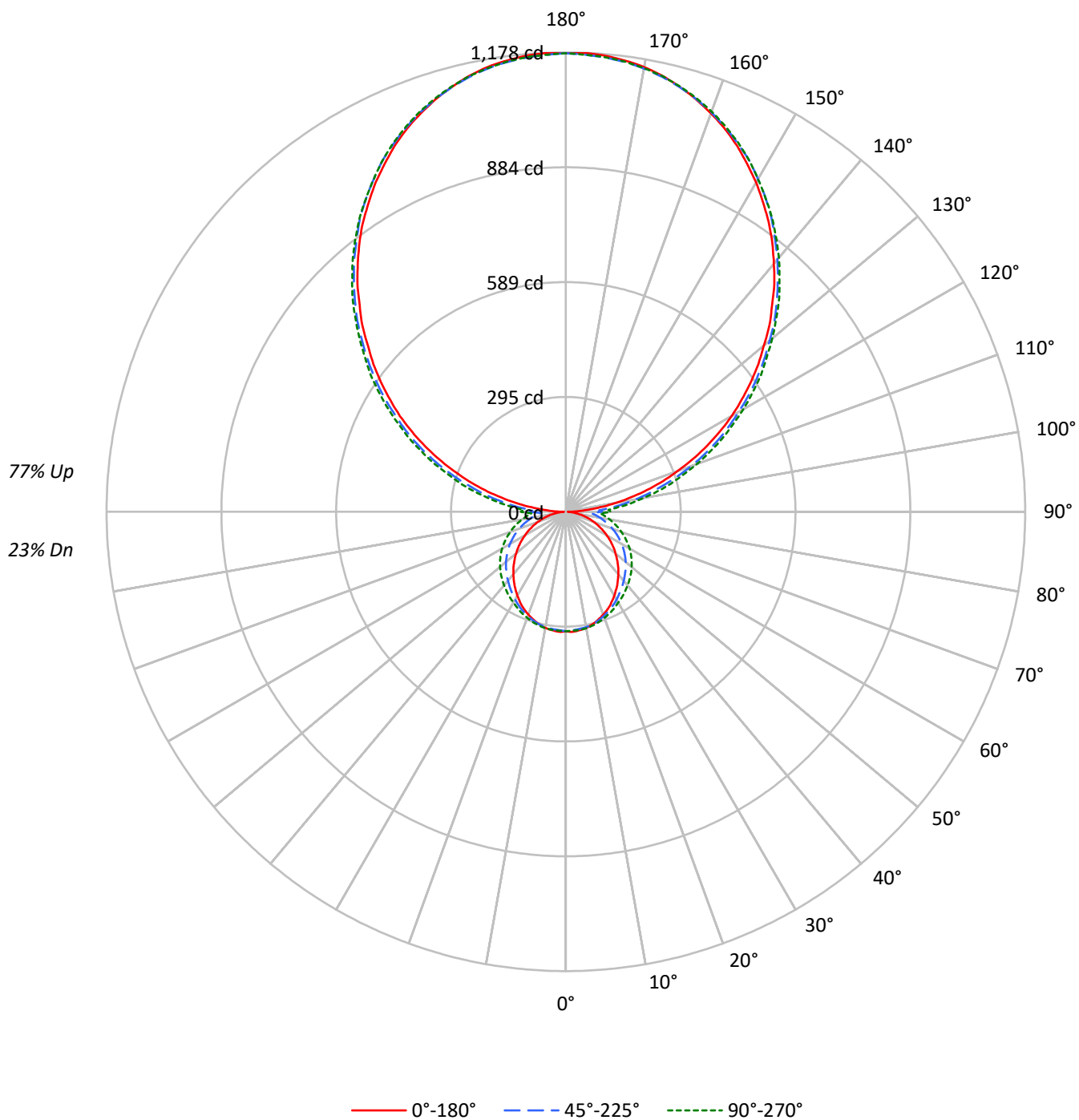
Lumens per Lamp: N/A
Luminaire Lumens: 4460.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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: P1008965

CATALOG NUMBER: S122DIP-B290D925UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1008965

CATALOG NUMBER: S122DIP-B290D925UB35-4F0-XX-W2A-D1

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	101	101	101	101	90	90	90	90	69	69	69		49	49	49		32
1	91	87	83	79	81	77	74	71	59	57	55		42	41	39		27
2	83	75	69	64	73	67	62	57	51	48	45		37	34	32		23
3	75	66	59	53	66	58	52	47	45	41	37		32	29	27		20
4	69	58	50	44	60	52	45	40	40	35	31		28	25	23		18
5	63	51	43	38	55	46	39	34	35	30	27		25	22	20		16
6	58	46	38	32	51	41	34	29	31	27	23		23	19	17		14
7	53	41	33	28	47	37	30	25	28	24	20		21	17	15		13
8	49	37	30	24	43	33	27	22	26	21	18		19	15	13		12
9	46	34	26	22	40	30	24	20	23	19	16		17	14	12		11
10	42	31	24	19	38	28	21	17	21	17	14		16	13	10		10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4850	4850	4850
5°	4872	4643	4617
10°	4839	4483	4417
15°	4770	4315	4212
20°	4684	4141	4017
25°	4599	3973	3840
30°	4479	3804	3665
35°	4360	3639	3537
40°	4232	3498	3409
45°	4112	3370	3298
50°	3982	3252	3188
55°	3845	3126	3076
60°	3678	2994	2959
65°	3505	2843	2824
70°	3309	2682	2678
75°	3054	2520	2542
80°	2659	2351	2399
85°	2260	2192	2276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4112 cd/sqm

TEST NUMBER: P1008965

CATALOG NUMBER: S122DIP-B290D925UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.7
10°-20°	83.3	1.9
20°-30°	126.2	2.8
30°-40°	153.7	3.4
40°-50°	165.4	3.7
50°-60°	160.6	3.6
60°-70°	140.2	3.1
70°-80°	108.0	2.4
80°-90°	75.6	1.7
90°-100°	122.6	2.7
100°-110°	267.7	6.0
110°-120°	419.8	9.4
120°-130°	533.8	12.0
130°-140°	589.8	13.2
140°-150°	573.8	12.9
150°-160°	480.5	10.8
160°-170°	318.7	7.1
170°-180°	111.4	2.5
0°-30°	238.5	5.3
0°-40°	392.2	8.8
0°-60°	718.2	16.1
0°-90°	1042.0	23.4
90°-120°	810.0	18.2
90°-150°	2507.4	56.2
90°-180°	3418.0	76.6
0°-180°	4460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	306	306	306	306	306	
5°	307	306	303	306	306	29
15°	293	294	294	298	298	83
25°	266	270	274	279	280	123
35°	230	237	246	255	258	143
45°	188	200	216	230	234	145
55°	144	160	183	199	205	129
65°	99	120	146	165	170	98
75°	55	80	108	127	133	58
85°	16	44	72	91	97	17
90°	5	43	93	109	115	6
95°	55	86	115	131	135	60
105°	216	231	256	274	279	228
115°	399	410	428	440	442	394
125°	578	587	599	608	611	517
135°	748	758	765	773	774	578
145°	907	914	920	924	922	567
155°	1037	1040	1043	1048	1045	477
165°	1128	1127	1127	1134	1129	318
175°	1174	1171	1169	1176	1170	112
180°	1176	1176	1176	1176	1176	

TEST NUMBER: P1008965

CATALOG NUMBER: S122DIP-B290D925UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	306.4	306.4	306.4	306.4	306.4
2.5°	308.6	307.3	304.1	306.4	305.5
5°	307.3	305.9	303.3	305.9	305.5
7.5°	305.0	304.1	301.9	305.0	304.6
10°	302.4	301.5	300.2	303.7	303.3
12.5°	297.9	298.4	297.5	301.0	300.6
15°	293.0	293.9	293.9	297.9	297.5
17.5°	286.8	288.6	289.9	293.9	293.9
20°	280.6	282.8	284.6	289.5	289.5
22.5°	274.0	276.6	279.3	284.2	285.1
25°	266.4	269.5	273.5	278.8	280.2
27.5°	257.5	262.4	266.9	273.5	274.4
30°	248.6	254.4	260.2	267.3	268.6
32.5°	238.9	245.5	252.6	261.1	263.7
35°	229.6	237.1	245.5	255.3	258.4
37.5°	219.3	227.8	238.4	249.1	252.2
40°	209.1	218.9	230.9	242.4	246.4
42.5°	199.4	209.1	223.3	236.2	240.2
45°	188.3	200.3	215.8	229.6	234.0
47.5°	177.6	190.5	208.2	222.5	227.3
50°	166.5	180.3	200.3	215.3	220.2
52.5°	155.8	170.5	191.8	207.4	212.7
55°	144.3	160.3	183.4	199.4	205.1
57.5°	133.2	151.0	174.1	191.4	197.1
60°	121.2	140.3	165.6	182.5	188.7
62.5°	110.6	130.5	155.8	174.1	179.8
65°	98.6	120.3	146.5	164.7	170.5
67.5°	87.9	110.6	137.2	155.4	161.6
70°	76.4	99.5	127.0	146.1	151.4
72.5°	65.7	89.7	117.7	136.3	143.0
75°	54.6	79.5	107.9	127.0	132.8
77.5°	44.0	69.7	98.6	117.7	123.9
80°	33.3	60.4	89.2	107.9	114.1
82.5°	24.4	51.1	80.4	99.0	104.8
85°	16.0	43.5	71.9	90.6	96.8
87.5°	9.8	36.4	64.8	83.0	88.8
90°	5.4	43.1	93.3	109.1	115.4
92.5°	25.8	57.3	85.4	103.7	109.1
95°	55.2	85.9	114.6	131.4	134.8
97.5°	89.4	117.5	147.2	163.6	168.9
100°	129.1	153.5	181.3	197.7	201.7
102.5°	170.4	191.0	218.9	235.9	239.8
105°	215.6	231.4	256.5	274.0	278.9
107.5°	261.2	275.9	298.1	314.2	314.1
110°	304.5	319.3	341.0	355.2	357.1

TEST NUMBER: P1008965

CATALOG NUMBER: S122DIP-B290D925UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.1	365.1	384.6	395.8	398.7
115°	398.7	409.6	427.5	439.9	441.7
117.5°	444.9	456.4	470.1	480.5	481.9
120°	491.5	501.3	511.1	523.5	525.4
122.5°	534.2	544.6	556.0	565.1	567.1
125°	578.4	587.4	598.6	607.6	610.6
127.5°	622.1	632.5	640.6	647.7	648.7
130°	662.8	675.2	682.6	691.2	690.9
132.5°	708.4	717.9	725.6	730.8	731.4
135°	747.6	758.5	765.0	773.3	774.0
137.5°	791.3	800.2	804.5	811.9	811.0
140°	830.0	838.5	844.4	851.5	850.2
142.5°	869.7	878.2	881.2	887.5	885.7
145°	907.0	913.9	919.9	923.6	921.8
147.5°	940.7	949.7	953.6	956.0	953.5
150°	975.5	981.4	985.4	988.4	985.4
152.5°	1006.2	1012.2	1017.1	1021.1	1017.1
155°	1037.0	1040.0	1042.9	1047.9	1044.9
157.5°	1063.8	1065.8	1067.8	1074.7	1069.7
160°	1087.6	1089.6	1090.6	1096.5	1092.6
162.5°	1109.4	1109.4	1110.4	1117.4	1112.4
165°	1128.3	1127.3	1127.3	1134.2	1129.3
167.5°	1145.2	1142.2	1142.2	1149.1	1144.2
170°	1158.1	1155.1	1154.1	1161.0	1155.1
172.5°	1167.0	1164.0	1163.0	1170.0	1164.0
175°	1173.9	1171.0	1169.0	1175.9	1170.0
177.5°	1177.9	1174.9	1172.9	1178.9	1172.9
180°	1175.9	1175.9	1175.9	1175.9	1175.9

(END OF REPORT)