

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: P1008947

Luminaire Tested: S122DIP-B290D925UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008947
REPORT IS A COMBINATION OF REPORTS P984062 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D925UB27-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

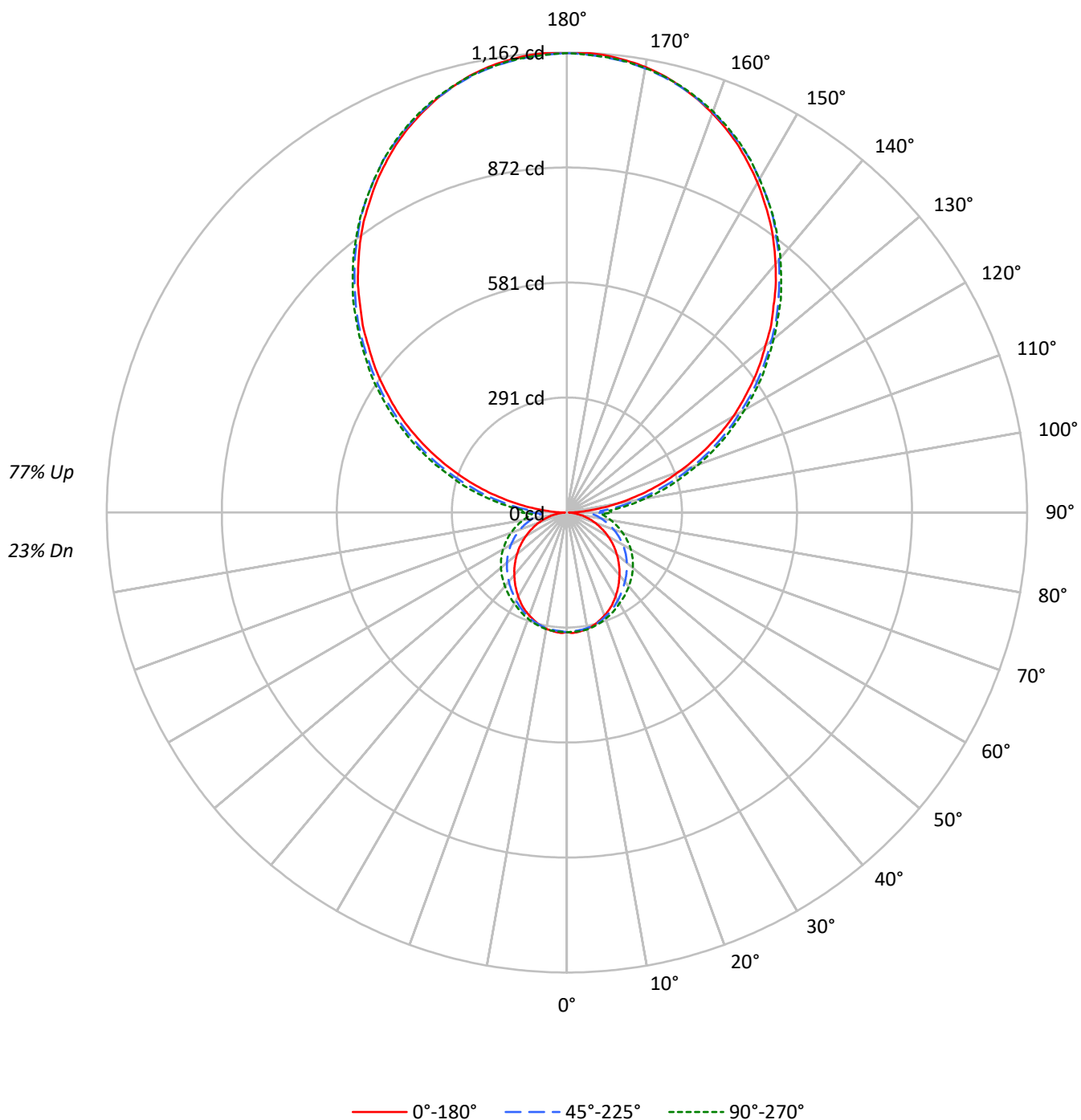
Lumens per Lamp: N/A
Luminaire Lumens: 4402.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1008947

CATALOG NUMBER: S122DIP-B290D925UB27-4F0-XX-W2A-D1

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	30	10
RCR																	
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32
1	91	87	83	79	81	77	74	71	59	57	55	42	41	39	27	26	25
2	83	75	69	64	73	67	62	57	51	48	45	37	34	32	23	22	21
3	75	66	59	53	66	58	52	47	45	41	37	32	29	27	20	19	17
4	69	58	50	44	60	52	45	40	40	35	31	28	25	23	18	16	15
5	63	51	43	38	55	46	39	34	35	30	27	25	22	20	16	14	13
6	58	46	38	32	51	41	34	29	31	27	23	23	19	17	14	13	11
7	53	41	33	28	47	37	30	25	28	24	20	21	17	15	13	11	10
8	49	37	30	24	43	33	27	22	26	21	18	19	15	13	12	10	9
9	46	34	26	22	40	30	24	20	23	19	16	17	14	12	11	9	8
10	42	31	24	19	38	28	21	17	21	17	14	16	13	10	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4787	4787	4787
5°	4809	4584	4558
10°	4777	4424	4360
15°	4709	4261	4158
20°	4624	4088	3965
25°	4541	3923	3791
30°	4423	3755	3618
35°	4303	3593	3491
40°	4177	3453	3366
45°	4058	3326	3256
50°	3931	3210	3147
55°	3797	3085	3037
60°	3632	2956	2921
65°	3459	2806	2787
70°	3265	2648	2645
75°	3015	2488	2509
80°	2627	2322	2367
85°	2232	2165	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4058 cd/sqm

TEST NUMBER: P1008947

CATALOG NUMBER: S122DIP-B290D925UB27-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.7
10°-20°	82.2	1.9
20°-30°	124.6	2.8
30°-40°	151.7	3.4
40°-50°	163.2	3.7
50°-60°	158.5	3.6
60°-70°	138.4	3.1
70°-80°	106.6	2.4
80°-90°	74.7	1.7
90°-100°	121.0	2.7
100°-110°	264.2	6.0
110°-120°	414.3	9.4
120°-130°	526.8	12.0
130°-140°	582.1	13.2
140°-150°	566.3	12.9
150°-160°	474.2	10.8
160°-170°	314.5	7.1
170°-180°	109.9	2.5
0°-30°	235.5	5.3
0°-40°	387.2	8.8
0°-60°	709.0	16.1
0°-90°	1028.7	23.4
90°-120°	799.5	18.2
90°-150°	2474.7	56.2
90°-180°	3373.0	76.6
0°-180°	4402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	303	302	299	302	302	29
15°	289	290	290	294	294	81
25°	263	266	270	275	277	121
35°	227	234	242	252	255	142
45°	186	198	213	227	231	143
55°	142	158	181	197	202	127
65°	97	119	145	163	168	97
75°	54	78	106	125	131	57
85°	16	43	71	89	96	17
90°	5	42	92	108	114	6
95°	54	85	113	130	133	60
105°	213	228	253	270	275	225
115°	394	404	422	434	436	389
125°	571	580	591	600	603	510
135°	738	749	755	763	764	570
145°	895	902	908	912	910	559
155°	1023	1026	1029	1034	1031	471
165°	1114	1113	1113	1119	1114	314
175°	1159	1156	1154	1161	1155	110
180°	1161	1161	1161	1161	1161	

TEST NUMBER: P1008947

CATALOG NUMBER: S122DIP-B290D925UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	302.4	302.4	302.4	302.4	302.4
2.5°	304.6	303.3	300.2	302.4	301.6
5°	303.3	302.0	299.4	302.0	301.6
7.5°	301.1	300.2	298.1	301.1	300.7
10°	298.5	297.6	296.3	299.8	299.4
12.5°	294.1	294.5	293.7	297.2	296.7
15°	289.3	290.2	290.2	294.1	293.7
17.5°	283.2	284.9	286.2	290.2	290.2
20°	277.0	279.2	281.0	285.8	285.8
22.5°	270.4	273.1	275.7	280.5	281.4
25°	263.0	266.1	270.0	275.3	276.6
27.5°	254.2	259.0	263.4	270.0	270.9
30°	245.5	251.2	256.9	263.9	265.2
32.5°	235.8	242.4	249.4	257.7	260.4
35°	226.6	234.1	242.4	252.0	255.1
37.5°	216.5	224.9	235.4	245.9	249.0
40°	206.4	216.1	227.9	239.3	243.3
42.5°	196.8	206.4	220.5	233.2	237.1
45°	185.8	197.7	213.0	226.6	231.0
47.5°	175.3	188.0	205.6	219.6	224.4
50°	164.4	178.0	197.7	212.6	217.4
52.5°	153.8	168.3	189.4	204.7	210.0
55°	142.5	158.2	181.0	196.8	202.5
57.5°	131.5	149.0	171.8	188.9	194.6
60°	119.7	138.5	163.5	180.1	186.3
62.5°	109.1	128.9	153.8	171.8	177.5
65°	97.3	118.8	144.6	162.6	168.3
67.5°	86.8	109.1	135.4	153.4	159.5
70°	75.4	98.2	125.4	144.2	149.5
72.5°	64.9	88.5	116.2	134.6	141.1
75°	53.9	78.5	106.5	125.4	131.1
77.5°	43.4	68.8	97.3	116.2	122.3
80°	32.9	59.6	88.1	106.5	112.6
82.5°	24.1	50.4	79.3	97.7	103.4
85°	15.8	43.0	71.0	89.4	95.6
87.5°	9.6	35.9	64.0	82.0	87.7
90°	5.4	42.5	92.2	107.7	114.0
92.5°	25.4	56.6	84.3	102.3	107.6
95°	54.4	84.8	113.1	129.8	133.0
97.5°	88.3	115.9	145.2	161.5	166.7
100°	127.5	151.5	179.0	195.2	199.1
102.5°	168.1	188.5	216.1	232.8	236.7
105°	212.8	228.4	253.2	270.4	275.3
107.5°	257.8	272.2	294.1	310.0	310.0
110°	300.5	315.1	336.6	350.6	352.4

TEST NUMBER: P1008947

CATALOG NUMBER: S122DIP-B290D925UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	347.5	360.4	379.5	390.7	393.5
115°	393.5	404.2	422.0	434.1	436.0
117.5°	439.1	450.4	463.9	474.2	475.6
120°	485.1	494.7	504.4	516.7	518.6
122.5°	527.2	537.5	548.8	557.7	559.7
125°	570.9	579.7	590.8	599.6	602.7
127.5°	614.0	624.3	632.2	639.2	640.3
130°	654.1	666.4	673.6	682.3	681.8
132.5°	699.2	708.5	716.1	721.3	721.8
135°	737.9	748.6	755.0	763.2	763.8
137.5°	781.0	789.8	793.9	801.4	800.4
140°	819.2	827.6	833.4	840.4	839.0
142.5°	858.3	866.7	869.7	876.0	874.2
145°	895.1	902.0	907.9	911.5	909.7
147.5°	928.4	937.3	941.2	943.5	941.0
150°	962.7	968.6	972.5	975.5	972.5
152.5°	993.1	999.0	1003.9	1007.8	1003.9
155°	1023.4	1026.4	1029.3	1034.2	1031.3
157.5°	1049.9	1051.8	1053.8	1060.7	1055.8
160°	1073.4	1075.4	1076.3	1082.2	1078.3
162.5°	1094.9	1094.9	1095.9	1102.8	1097.9
165°	1113.5	1112.6	1112.6	1119.4	1114.5
167.5°	1130.2	1127.3	1127.3	1134.1	1129.2
170°	1142.9	1140.0	1139.0	1145.9	1140.0
172.5°	1151.7	1148.8	1147.8	1154.7	1148.8
175°	1158.6	1155.7	1153.7	1160.6	1154.7
177.5°	1162.5	1159.6	1157.6	1163.5	1157.6
180°	1160.6	1160.6	1160.6	1160.6	1160.6

(END OF REPORT)