

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: P1008946

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008946
REPORT IS A COMBINATION OF REPORTS P984061 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-D
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

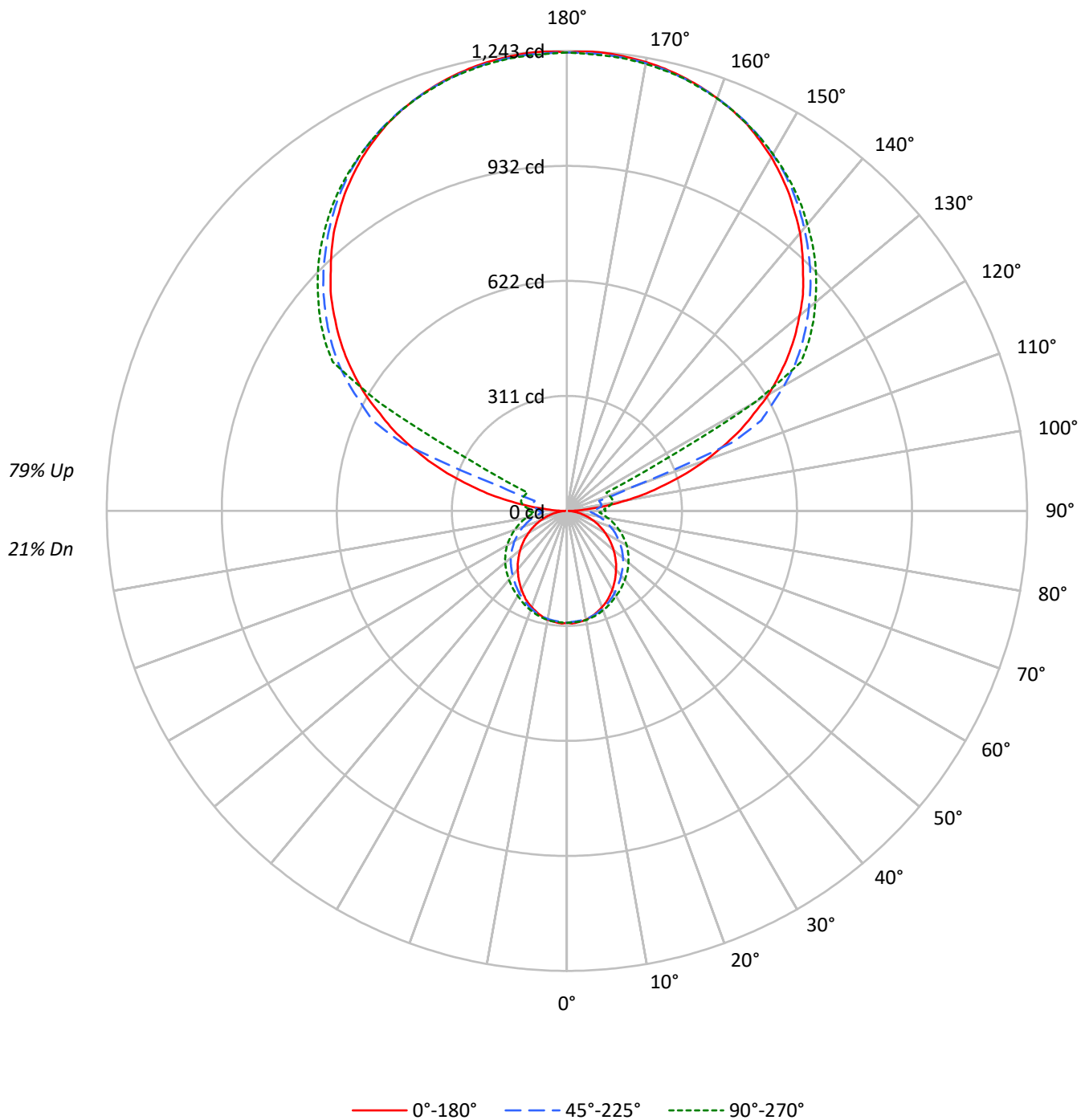
Lumens per Lamp: N/A
Luminaire Lumens: 4788.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1008946

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

Luminous Intensity Polar Plot



TEST NUMBER: P1008946

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

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	100	100	100	100	89	89	89	89	67	67	67	48	48	48	30	30	30
1	91	86	82	79	80	76	73	70	58	56	54	41	40	38	25	25	24
2	82	75	69	64	73	66	61	57	50	47	44	36	33	31	22	21	20
3	75	66	58	53	66	58	52	47	44	40	37	31	29	26	19	18	16
4	68	58	50	44	60	51	45	40	39	34	31	28	25	22	17	15	14
5	62	51	43	37	55	45	39	34	35	30	26	25	21	19	15	13	12
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	14	12	10
7	53	41	33	28	47	36	30	25	28	23	20	20	17	14	12	11	9
8	49	37	29	24	43	33	26	22	25	21	17	18	15	13	11	10	8
9	45	34	26	21	40	30	24	19	23	18	15	17	13	11	10	9	7
10	42	31	24	19	37	27	21	17	21	17	14	15	12	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: P1008946

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.6
10°-20°	82.2	1.7
20°-30°	124.6	2.6
30°-40°	151.7	3.2
40°-50°	163.2	3.4
50°-60°	158.5	3.3
60°-70°	138.4	2.9
70°-80°	106.6	2.2
80°-90°	73.5	1.5
90°-100°	90.1	1.9
100°-110°	188.2	3.9
110°-120°	427.6	8.9
120°-130°	683.1	14.3
130°-140°	717.1	15.0
140°-150°	662.2	13.8
150°-160°	531.6	11.1
160°-170°	342.6	7.2
170°-180°	117.9	2.5
0°-30°	235.5	4.9
0°-40°	387.2	8.1
0°-60°	709.0	14.8
0°-90°	1027.5	21.5
90°-120°	705.9	14.7
90°-150°	2768.3	57.8
90°-180°	3760.0	78.5
0°-180°	4788.0	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	41	76	98	105	6
95°	62	53	85	106	111	72
105°	275	314	92	118	126	294
115°	517	537	579	177	118	509
125°	730	741	772	790	797	651
135°	902	916	929	947	949	697
145°	1046	1045	1060	1069	1067	654
155°	1152	1144	1155	1160	1153	531
165°	1214	1208	1211	1217	1211	343
175°	1242	1235	1237	1243	1234	118
180°	1239	1239	1239	1239	1239	

TEST NUMBER: P1008946

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

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°	5.3	40.6	75.8	97.8	104.9
92.5°	26.3	46.0	75.4	94.3	100.5
95°	61.8	52.8	85.4	106.5	110.8
97.5°	108.0	53.3	93.0	112.0	118.1
100°	161.8	55.2	94.9	118.3	125.0
102.5°	220.4	233.1	93.7	119.2	126.8
105°	274.7	314.3	92.4	117.5	126.0
107.5°	338.4	371.3	91.1	115.8	124.3
110°	398.9	426.4	188.9	113.2	121.6

TEST NUMBER: P1008946

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	456.3	479.4	484.3	112.0	119.5
115°	517.2	537.3	579.4	177.4	117.8
117.5°	569.6	591.0	624.7	509.7	279.2
120°	628.8	644.0	677.7	700.7	584.5
122.5°	679.0	693.8	728.0	745.1	750.0
125°	729.7	741.3	772.4	790.4	797.1
127.5°	776.3	788.3	813.7	833.6	838.4
130°	820.2	834.1	853.1	873.6	876.2
132.5°	865.0	876.2	892.6	910.8	913.4
135°	902.2	916.5	929.0	947.2	948.9
137.5°	941.6	952.4	963.5	980.9	981.2
140°	980.2	986.9	997.7	1012.8	1010.9
142.5°	1012.4	1018.3	1030.0	1042.4	1040.2
145°	1046.1	1045.2	1060.4	1069.3	1067.0
147.5°	1075.7	1073.0	1088.2	1093.1	1090.9
150°	1104.4	1098.1	1112.4	1117.8	1113.3
152.5°	1128.6	1121.4	1134.8	1140.2	1134.0
155°	1151.9	1143.8	1154.6	1159.9	1152.8
157.5°	1170.7	1163.5	1171.6	1177.9	1170.7
160°	1186.8	1181.5	1186.8	1192.2	1185.9
162.5°	1201.2	1195.8	1200.3	1206.6	1198.5
165°	1213.7	1208.4	1211.0	1217.3	1211.0
167.5°	1223.6	1218.2	1220.9	1227.2	1219.1
170°	1231.7	1226.3	1228.1	1234.3	1226.3
172.5°	1237.0	1231.7	1233.5	1239.7	1231.7
175°	1241.5	1235.2	1237.0	1243.3	1234.3
177.5°	1243.3	1237.0	1237.9	1244.2	1236.1
180°	1238.8	1238.8	1238.8	1238.8	1238.8

(END OF REPORT)