

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: P1008982

Luminaire Tested: S122DIP-B290D925UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008982
REPORT IS A COMBINATION OF REPORTS P984112 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D925UB50-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

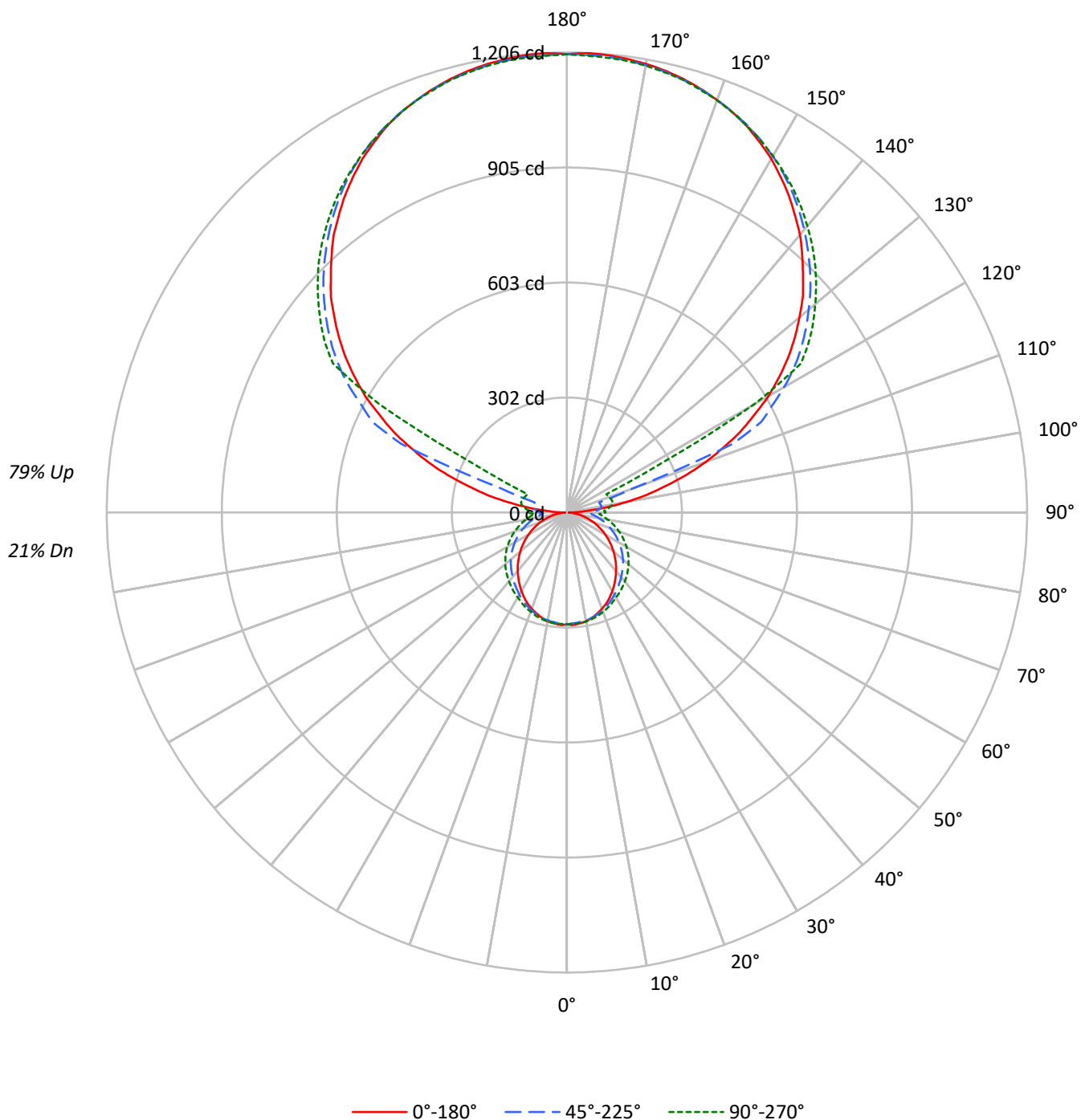
Lumens per Lamp: N/A
Luminaire Lumens: 4643.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	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	9	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°	4643	4643	4643
5°	4663	4444	4419
10°	4631	4290	4228
15°	4566	4131	4032
20°	4484	3963	3845
25°	4402	3803	3676
30°	4288	3641	3508
35°	4172	3483	3386
40°	4052	3348	3264
45°	3936	3226	3157
50°	3812	3112	3052
55°	3680	2991	2946
60°	3520	2866	2832
65°	3356	2723	2703
70°	3166	2568	2563
75°	2926	2413	2433
80°	2547	2250	2296
85°	2161	2101	2180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	0.6
10°-20°	79.7	1.7
20°-30°	120.8	2.6
30°-40°	147.1	3.2
40°-50°	158.3	3.4
50°-60°	153.7	3.3
60°-70°	134.3	2.9
70°-80°	103.3	2.2
80°-90°	71.3	1.5
90°-100°	87.4	1.9
100°-110°	182.5	3.9
110°-120°	414.7	8.9
120°-130°	662.4	14.3
130°-140°	695.4	15.0
140°-150°	642.2	13.8
150°-160°	515.6	11.1
160°-170°	332.2	7.2
170°-180°	114.3	2.5
0°-30°	228.3	4.9
0°-40°	375.5	8.1
0°-60°	687.5	14.8
0°-90°	996.4	21.5
90°-120°	684.6	14.7
90°-150°	2684.5	57.8
90°-180°	3647.0	78.5
0°-180°	4643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	294	293	290	293	292	28
15°	280	281	281	285	285	79
25°	255	258	262	267	268	117
35°	220	227	235	244	247	137
45°	180	192	207	220	224	139
55°	138	153	176	191	196	124
65°	94	115	140	158	163	94
75°	52	76	103	122	127	55
85°	15	42	69	87	93	16
90°	5	39	74	95	102	6
95°	60	51	83	103	108	70
105°	266	305	90	114	122	285
115°	502	521	562	172	114	494
125°	708	719	749	766	773	631
135°	875	889	901	918	920	676
145°	1014	1014	1028	1037	1035	635
155°	1117	1109	1120	1125	1118	515
165°	1177	1172	1174	1180	1174	333
175°	1204	1198	1200	1206	1197	115
180°	1201	1201	1201	1201	1201	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.3	293.3	293.3	293.3	293.3
2.5°	295.4	294.1	291.1	293.3	292.4
5°	294.1	292.8	290.3	292.8	292.4
7.5°	292.0	291.1	289.0	292.0	291.6
10°	289.4	288.6	287.3	290.7	290.3
12.5°	285.2	285.6	284.8	288.2	287.7
15°	280.5	281.4	281.4	285.2	284.8
17.5°	274.6	276.3	277.5	281.4	281.4
20°	268.6	270.7	272.4	277.1	277.1
22.5°	262.2	264.8	267.3	272.0	272.9
25°	255.0	258.0	261.8	266.9	268.2
27.5°	246.5	251.2	255.4	261.8	262.7
30°	238.0	243.5	249.1	255.9	257.1
32.5°	228.7	235.0	241.8	249.9	252.5
35°	219.7	227.0	235.0	244.4	247.4
37.5°	210.0	218.0	228.2	238.4	241.4
40°	200.2	209.5	221.0	232.1	235.9
42.5°	190.8	200.2	213.8	226.1	229.9
45°	180.2	191.7	206.6	219.7	224.0
47.5°	170.0	182.3	199.3	212.9	217.6
50°	159.4	172.6	191.7	206.1	210.8
52.5°	149.2	163.2	183.6	198.5	203.6
55°	138.1	153.4	175.5	190.8	196.4
57.5°	127.5	144.5	166.6	183.2	188.7
60°	116.0	134.3	158.5	174.7	180.6
62.5°	105.8	125.0	149.2	166.6	172.1
65°	94.4	115.2	140.3	157.7	163.2
67.5°	84.2	105.8	131.3	148.8	154.7
70°	73.1	95.2	121.6	139.8	144.9
72.5°	62.9	85.9	112.6	130.5	136.9
75°	52.3	76.1	103.3	121.6	127.1
77.5°	42.1	66.7	94.4	112.6	118.6
80°	31.9	57.8	85.4	103.3	109.2
82.5°	23.4	48.9	76.9	94.8	100.3
85°	15.3	41.7	68.9	86.7	92.7
87.5°	9.4	34.9	62.1	79.5	85.0
90°	5.2	39.3	73.5	94.8	101.7
92.5°	25.5	44.7	73.2	91.5	97.5
95°	59.9	51.2	82.8	103.2	107.5
97.5°	104.7	51.7	90.2	108.5	114.5
100°	156.9	53.5	92.0	114.7	121.1
102.5°	213.8	226.1	90.8	115.6	123.0
105°	266.4	304.8	89.6	114.0	122.2
107.5°	328.1	360.0	88.4	112.3	120.5
110°	386.8	413.5	183.1	109.8	118.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	442.4	464.9	469.7	108.6	115.8
115°	501.5	521.0	561.8	172.2	114.2
117.5°	552.4	573.2	605.8	494.3	270.7
120°	609.8	624.5	657.2	679.5	566.9
122.5°	658.5	672.8	705.9	722.6	727.2
125°	707.6	718.9	749.0	766.5	773.0
127.5°	752.8	764.5	789.0	808.3	813.1
130°	795.4	808.8	827.4	847.1	849.7
132.5°	838.9	849.7	865.6	883.3	885.8
135°	874.9	888.8	900.9	918.5	920.2
137.5°	913.1	923.6	934.5	951.2	951.5
140°	950.5	957.1	967.5	982.2	980.3
142.5°	981.8	987.5	998.8	1010.8	1008.6
145°	1014.4	1013.6	1028.3	1037.0	1034.8
147.5°	1043.1	1040.5	1055.3	1060.0	1057.9
150°	1070.9	1064.9	1078.8	1084.0	1079.6
152.5°	1094.4	1087.5	1100.5	1105.7	1099.6
155°	1117.0	1109.2	1119.6	1124.8	1117.9
157.5°	1135.3	1128.3	1136.1	1142.2	1135.3
160°	1150.9	1145.7	1150.9	1156.1	1150.0
162.5°	1164.8	1159.6	1164.0	1170.0	1162.2
165°	1177.0	1171.8	1174.4	1180.5	1174.4
167.5°	1186.6	1181.3	1183.9	1190.0	1182.2
170°	1194.4	1189.2	1190.9	1197.0	1189.2
172.5°	1199.6	1194.4	1196.1	1202.2	1194.4
175°	1203.9	1197.9	1199.6	1205.7	1197.0
177.5°	1205.7	1199.6	1200.5	1206.5	1198.7
180°	1201.3	1201.3	1201.3	1201.3	1201.3

(END OF REPORT)