

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: P1008956

Luminaire Tested: S122DIP-B290D925UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008956
REPORT IS A COMBINATION OF REPORTS P984086 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D925UB30-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

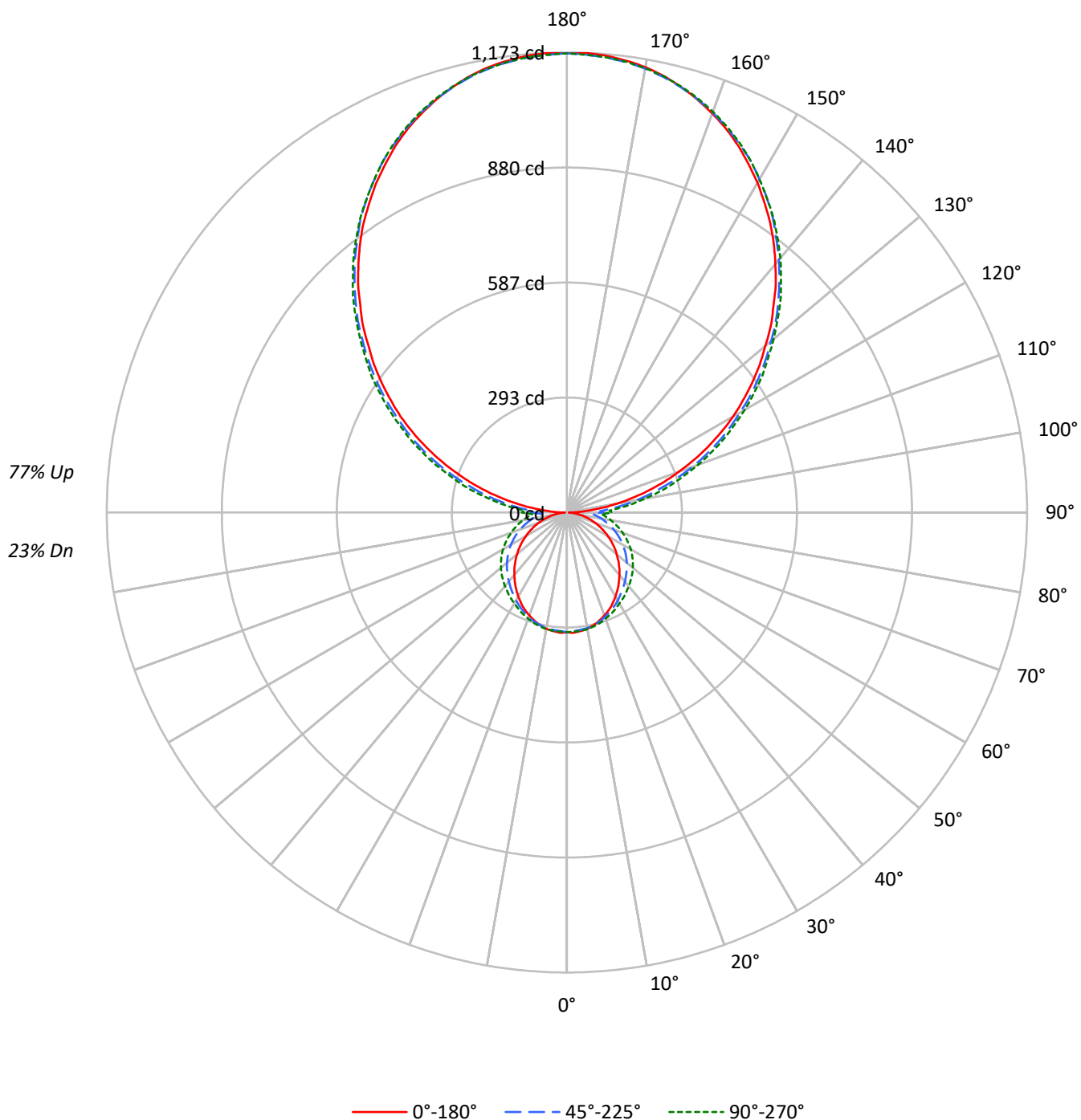
Lumens per Lamp: N/A
Luminaire Lumens: 4441.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	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°	4830	4830	4830
5°	4850	4623	4597
10°	4818	4463	4398
15°	4750	4297	4193
20°	4664	4123	4000
25°	4580	3956	3824
30°	4461	3788	3650
35°	4341	3624	3522
40°	4214	3483	3395
45°	4095	3356	3284
50°	3965	3237	3175
55°	3829	3112	3064
60°	3663	2981	2947
65°	3487	2832	2812
70°	3291	2670	2668
75°	3043	2509	2530
80°	2651	2343	2388
85°	2246	2183	2267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.7
10°-20°	82.9	1.9
20°-30°	125.7	2.8
30°-40°	153.0	3.4
40°-50°	164.7	3.7
50°-60°	159.9	3.6
60°-70°	139.6	3.1
70°-80°	107.5	2.4
80°-90°	75.3	1.7
90°-100°	122.1	2.7
100°-110°	266.5	6.0
110°-120°	418.0	9.4
120°-130°	531.5	12.0
130°-140°	587.3	13.2
140°-150°	571.3	12.9
150°-160°	478.5	10.8
160°-170°	317.3	7.1
170°-180°	110.9	2.5
0°-30°	237.5	5.3
0°-40°	390.6	8.8
0°-60°	715.1	16.1
0°-90°	1037.6	23.4
90°-120°	806.6	18.2
90°-150°	2496.7	56.2
90°-180°	3403.0	76.6
0°-180°	4441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	306	305	302	305	304	29
15°	292	293	293	297	296	82
25°	265	268	272	278	279	122
35°	229	236	244	254	257	143
45°	188	199	215	229	233	145
55°	144	160	183	198	204	129
65°	98	120	146	164	170	98
75°	54	79	107	126	132	58
85°	16	43	72	90	96	17
90°	5	43	93	109	115	6
95°	55	86	114	131	134	60
105°	215	230	255	273	278	227
115°	397	408	426	438	440	393
125°	576	585	596	605	608	515
135°	744	755	762	770	771	575
145°	903	910	916	920	918	564
155°	1033	1036	1038	1044	1040	475
165°	1124	1122	1122	1129	1124	317
175°	1169	1166	1164	1171	1165	111
180°	1171	1171	1171	1171	1171	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.1	305.1	305.1	305.1	305.1
2.5°	307.3	305.9	302.8	305.1	304.2
5°	305.9	304.6	302.0	304.6	304.2
7.5°	303.7	302.8	300.6	303.7	303.3
10°	301.1	300.2	298.9	302.4	302.0
12.5°	296.7	297.1	296.2	299.8	299.3
15°	291.8	292.7	292.7	296.7	296.2
17.5°	285.6	287.4	288.7	292.7	292.7
20°	279.4	281.6	283.4	288.3	288.3
22.5°	272.8	275.4	278.1	283.0	283.8
25°	265.3	268.4	272.3	277.6	279.0
27.5°	256.4	261.3	265.7	272.3	273.2
30°	247.6	253.3	259.1	266.2	267.5
32.5°	237.9	244.5	251.6	260.0	262.6
35°	228.6	236.1	244.5	254.2	257.3
37.5°	218.4	226.8	237.4	248.0	251.1
40°	208.2	218.0	229.9	241.4	245.4
42.5°	198.5	208.2	222.4	235.2	239.2
45°	187.5	199.4	214.9	228.6	233.0
47.5°	176.8	189.7	207.4	221.5	226.4
50°	165.8	179.5	199.4	214.4	219.3
52.5°	155.2	169.8	191.0	206.5	211.8
55°	143.7	159.6	182.6	198.5	204.3
57.5°	132.6	150.3	173.3	190.6	196.3
60°	120.7	139.7	164.9	181.7	187.9
62.5°	110.1	130.0	155.2	173.3	179.1
65°	98.1	119.8	145.9	164.0	169.8
67.5°	87.5	110.1	136.6	154.7	160.9
70°	76.0	99.0	126.4	145.5	150.8
72.5°	65.4	89.3	117.2	135.7	142.4
75°	54.4	79.1	107.4	126.4	132.2
77.5°	43.8	69.4	98.1	117.2	123.4
80°	33.2	60.1	88.9	107.4	113.6
82.5°	24.3	50.8	80.0	98.6	104.3
85°	15.9	43.3	71.6	90.2	96.4
87.5°	9.7	36.3	64.5	82.7	88.4
90°	5.4	42.9	93.0	108.6	114.9
92.5°	25.7	57.0	85.0	103.2	108.5
95°	54.9	85.6	114.0	130.8	134.2
97.5°	89.1	117.0	146.5	162.9	168.2
100°	128.6	152.9	180.6	197.0	200.8
102.5°	169.7	190.1	218.0	234.9	238.8
105°	214.6	230.4	255.4	272.9	277.8
107.5°	260.1	274.7	296.8	312.8	312.7
110°	303.2	317.9	339.6	353.7	355.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	350.6	363.5	382.9	394.1	397.0
115°	397.0	407.8	425.7	438.0	439.9
117.5°	443.0	454.5	468.1	478.4	479.8
120°	489.4	499.1	508.9	521.3	523.2
122.5°	531.9	542.3	553.7	562.7	564.6
125°	576.0	584.9	596.0	605.0	608.0
127.5°	619.5	629.8	637.9	644.9	646.0
130°	660.0	672.3	679.6	688.3	687.9
132.5°	705.4	714.8	722.5	727.7	728.3
135°	744.5	755.3	761.8	770.0	770.6
137.5°	787.9	796.8	801.1	808.5	807.6
140°	826.5	835.0	840.8	847.9	846.5
142.5°	866.0	874.5	877.4	883.7	882.0
145°	903.1	910.1	916.0	919.7	917.9
147.5°	936.7	945.6	949.6	952.0	949.4
150°	971.3	977.2	981.2	984.2	981.2
152.5°	1002.0	1007.9	1012.8	1016.8	1012.8
155°	1032.6	1035.5	1038.5	1043.5	1040.5
157.5°	1059.3	1061.2	1063.2	1070.1	1065.2
160°	1083.0	1085.0	1085.9	1091.9	1087.9
162.5°	1104.7	1104.7	1105.7	1112.6	1107.7
165°	1123.5	1122.5	1122.5	1129.4	1124.5
167.5°	1140.3	1137.3	1137.3	1144.2	1139.3
170°	1153.1	1150.2	1149.2	1156.1	1150.2
172.5°	1162.0	1159.1	1158.1	1165.0	1159.1
175°	1168.9	1166.0	1164.0	1170.9	1165.0
177.5°	1172.9	1169.9	1168.0	1173.9	1168.0
180°	1170.9	1170.9	1170.9	1170.9	1170.9

(END OF REPORT)