

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: P1008847

Luminaire Tested: S122DIP-B290D330UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008847
REPORT IS A COMBINATION OF REPORTS P983932 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D330UB50-4F0-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

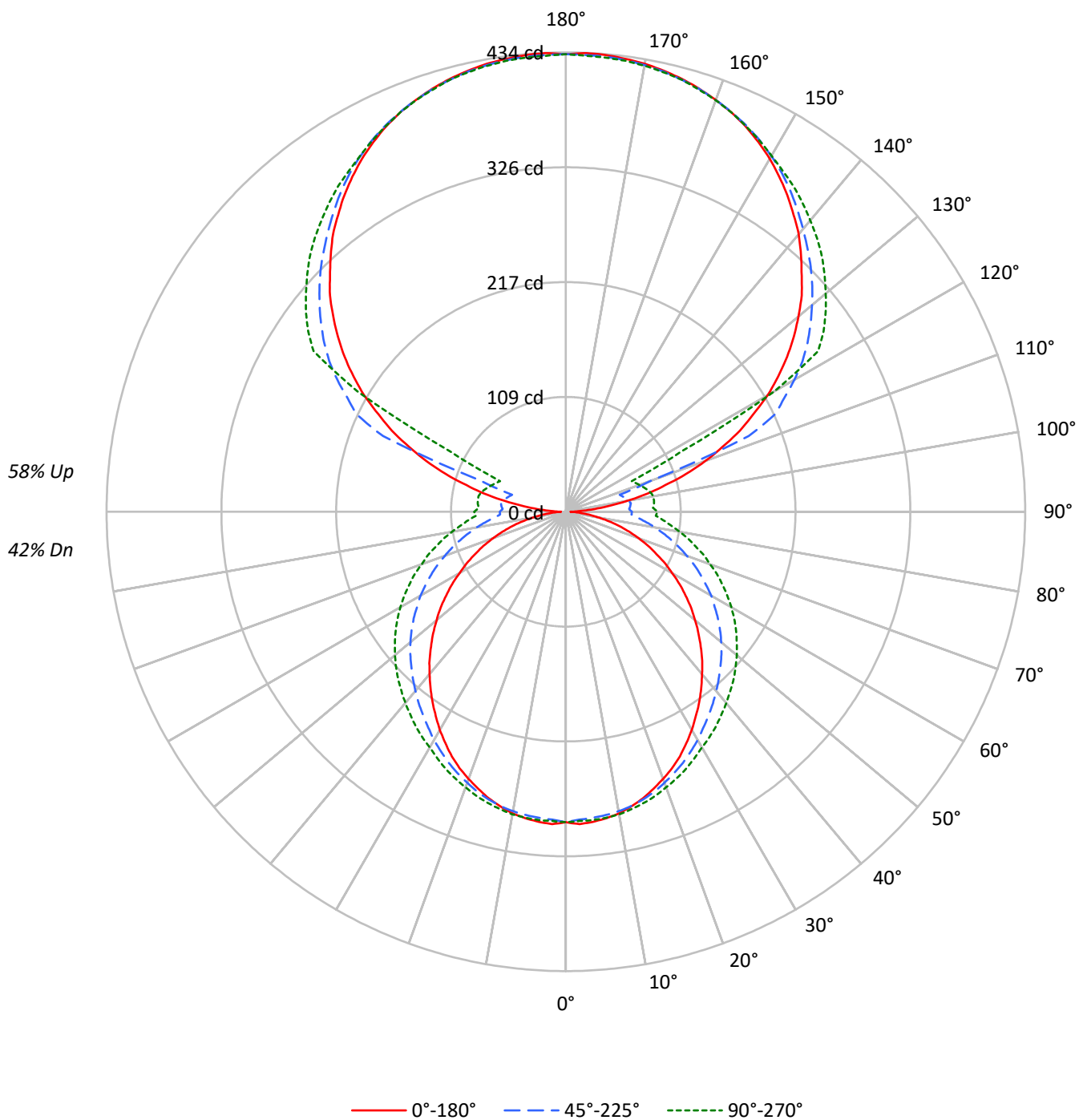
Lumens per Lamp: N/A
Luminaire Lumens: 2387.1 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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: P1008847

CATALOG NUMBER: S122DIP-B290D330UB50-4F0-XX-W2A-D

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	95	90	86	82	86	82	78	75	67	64	62	53	52	50	41	40	38
2	86	78	71	66	78	71	65	60	58	54	50	46	43	41	35	33	31
3	78	68	60	54	70	62	55	50	51	46	42	40	37	34	31	28	26
4	71	60	52	45	64	55	47	42	45	39	35	36	32	29	27	24	22
5	65	53	45	38	59	48	41	36	40	34	30	32	28	24	24	21	19
6	60	47	39	33	54	43	36	31	36	30	26	29	24	21	22	19	17
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15
8	51	39	31	25	46	35	28	24	29	24	20	24	20	16	18	15	13
9	47	35	28	22	43	32	25	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	19	16	20	16	13	16	13	11

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

TEST NUMBER: P1008847

CATALOG NUMBER: S122DIP-B290D330UB50-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	1.2
10°-20°	79.7	3.3
20°-30°	120.8	5.1
30°-40°	147.1	6.2
40°-50°	158.3	6.6
50°-60°	153.7	6.4
60°-70°	134.3	5.6
70°-80°	103.3	4.3
80°-90°	70.0	2.9
90°-100°	62.0	2.6
100°-110°	88.0	3.7
110°-120°	164.0	6.9
120°-130°	246.6	10.3
130°-140°	253.7	10.6
140°-150°	231.7	9.7
150°-160°	185.5	7.8
160°-170°	119.5	5.0
170°-180°	41.1	1.7
0°-30°	228.3	9.6
0°-40°	375.5	15.7
0°-60°	687.5	28.8
0°-90°	995.0	41.7
90°-120°	314.0	13.2
90°-150°	1045.8	43.8
90°-180°	1392.0	58.3
0°-180°	2387.1	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	33	62	81	87	4
95°	24	33	61	79	84	27
105°	97	119	56	74	80	104
115°	182	192	218	86	68	179
125°	255	259	279	292	297	228
135°	315	320	327	339	342	244
145°	365	365	370	375	375	228
155°	402	399	403	405	402	185
165°	424	422	423	425	423	120
175°	433	431	432	434	431	41
180°	432	432	432	432	432	

TEST NUMBER: P1008847

CATALOG NUMBER: S122DIP-B290D330UB50-4F0-XX-W2A-D

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°	4.6	32.7	62.4	80.9	86.6
92.5°	11.6	33.0	59.8	77.0	82.4
95°	23.7	33.4	61.1	78.8	83.5
97.5°	39.6	32.2	61.9	78.5	83.9
100°	58.4	31.2	60.3	78.5	83.9
102.5°	78.6	92.0	58.0	76.7	82.3
105°	97.2	119.0	55.7	73.9	79.9
107.5°	119.4	137.4	53.3	71.1	77.1
110°	140.3	155.3	85.7	68.1	74.0

TEST NUMBER: P1008847

CATALOG NUMBER: S122DIP-B290D330UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.3	172.7	187.0	65.8	71.3
115°	181.5	191.6	218.5	86.5	68.5
117.5°	199.6	209.3	232.4	200.4	122.7
120°	220.2	226.6	249.3	264.9	227.4
122.5°	237.8	243.2	265.1	278.5	282.6
125°	255.2	259.3	278.8	292.4	297.2
127.5°	271.5	275.3	291.5	305.3	309.5
130°	286.8	291.3	303.7	317.4	320.5
132.5°	302.4	306.0	315.8	328.4	331.5
135°	315.1	320.1	327.2	339.2	342.0
137.5°	328.8	332.6	337.9	349.0	351.1
140°	342.3	344.4	348.7	358.3	359.3
142.5°	353.5	355.3	359.4	367.0	367.5
145°	365.0	364.7	370.0	374.8	375.3
147.5°	375.3	374.4	379.7	381.7	381.7
150°	385.3	383.2	388.2	390.0	388.5
152.5°	393.8	391.3	396.0	397.9	395.7
155°	401.9	399.1	402.9	404.7	402.2
157.5°	408.5	406.0	408.8	411.0	408.5
160°	414.1	412.2	414.1	416.0	413.8
162.5°	419.1	417.2	418.8	421.0	418.2
165°	423.5	421.6	422.6	424.8	422.6
167.5°	426.9	425.1	426.0	428.2	425.4
170°	429.8	427.9	428.5	430.7	427.9
172.5°	431.6	429.8	430.4	432.6	429.8
175°	433.2	431.0	431.6	433.8	430.7
177.5°	433.8	431.6	431.9	434.1	431.3
180°	432.3	432.3	432.3	432.3	432.3

(END OF REPORT)