

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: P1008849

Luminaire Tested: S122DIP-B290D330UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008849
REPORT IS A COMBINATION OF REPORTS P983934 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-D4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

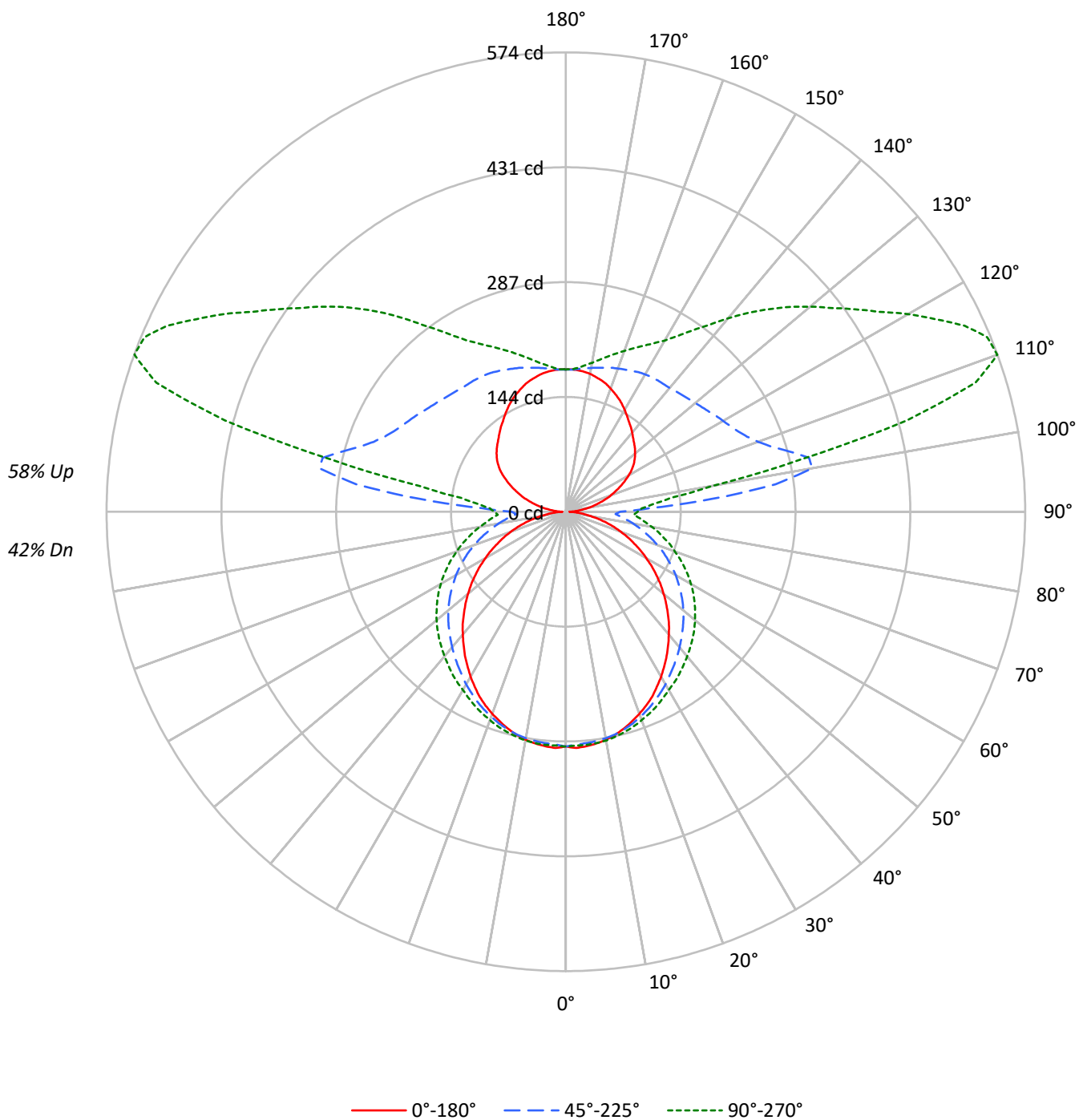
Lumens per Lamp: N/A
Luminaire Lumens: 2359.5 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1008849

CATALOG NUMBER: S122DIP-B290D330UB50-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1008849

CATALOG NUMBER: S122DIP-B290D330UB50-4F0-XX-W2A-D4

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	49	49	49
1	95	90	86	82	86	82	78	75	67	65	62	54	52	50	41	40	39
2	86	78	71	66	78	71	65	60	58	54	50	46	43	41	36	33	32
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	31	29	26
4	71	60	52	45	64	55	47	42	45	40	35	36	32	29	28	25	22
5	65	53	45	38	59	49	41	36	40	34	30	32	28	25	25	22	19
6	60	47	39	33	54	43	36	31	36	30	26	29	25	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	17	19	15	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	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: P1008849

CATALOG NUMBER: S122DIP-B290D330UB50-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	1.2
10°-20°	79.7	3.4
20°-30°	120.8	5.1
30°-40°	147.1	6.2
40°-50°	158.3	6.7
50°-60°	153.7	6.5
60°-70°	134.3	5.7
70°-80°	103.3	4.4
80°-90°	70.4	3.0
90°-100°	119.8	5.1
100°-110°	278.5	11.8
110°-120°	279.1	11.8
120°-130°	223.4	9.5
130°-140°	174.6	7.4
140°-150°	128.7	5.5
150°-160°	89.9	3.8
160°-170°	52.9	2.2
170°-180°	17.2	0.7
0°-30°	228.3	9.7
0°-40°	375.5	15.9
0°-60°	687.5	29.1
0°-90°	995.4	42.2
90°-120°	677.4	28.7
90°-150°	1204.1	51.0
90°-180°	1364.0	57.8
0°-180°	2359.5	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	34	68	84	90	4
95°	15	53	183	116	109	15
105°	44	77	290	504	441	47
115°	75	99	237	476	550	74
125°	103	122	218	380	441	92
135°	121	144	206	311	358	93
145°	137	158	200	251	277	86
155°	156	169	194	220	229	72
165°	170	175	186	198	201	48
175°	177	178	179	181	181	17
180°	178	178	178	178	178	

TEST NUMBER: P1008849

CATALOG NUMBER: S122DIP-B290D330UB50-4F0-XX-W2A-D4

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	33.5	67.7	84.2	89.5
92.5°	8.9	42.6	104.9	93.2	94.9
95°	15.4	52.8	182.9	115.6	109.1
97.5°	20.8	60.1	264.3	163.2	132.0
100°	29.3	66.2	312.5	260.4	185.3
102.5°	36.8	72.0	311.3	396.6	298.1
105°	43.8	77.4	289.9	504.2	441.3
107.5°	52.0	82.7	269.8	541.0	536.7
110°	59.8	88.4	255.6	531.0	573.7

TEST NUMBER: P1008849

CATALOG NUMBER: S122DIP-B290D330UB50-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.3	93.9	245.2	506.1	570.0
115°	75.2	99.2	237.4	475.7	549.8
117.5°	83.0	104.8	231.7	446.8	521.1
120°	90.5	110.3	226.8	420.4	494.0
122.5°	97.7	116.4	222.8	399.4	464.8
125°	103.4	122.2	218.2	380.2	441.0
127.5°	108.6	128.0	214.6	363.0	418.1
130°	113.0	133.7	211.4	346.0	398.7
132.5°	117.1	139.2	208.5	328.5	378.9
135°	120.7	144.0	206.0	311.4	357.8
137.5°	124.5	148.0	203.9	294.0	337.0
140°	128.9	151.4	201.9	278.4	315.5
142.5°	133.4	154.5	201.0	263.7	294.3
145°	137.4	158.0	200.3	251.2	276.8
147.5°	142.2	160.6	199.3	240.4	260.5
150°	147.0	163.4	198.3	232.4	247.1
152.5°	151.8	166.2	196.6	226.2	237.2
155°	156.2	168.7	194.5	220.0	228.7
157.5°	160.0	170.8	192.4	214.2	221.2
160°	163.7	172.8	190.4	208.3	214.0
162.5°	167.5	174.4	188.7	202.8	207.1
165°	170.2	175.4	186.3	197.6	200.7
167.5°	172.6	176.4	184.2	192.8	194.5
170°	175.0	176.9	182.5	188.4	189.0
172.5°	176.4	177.4	180.5	184.4	184.6
175°	177.4	177.6	179.1	181.4	180.8
177.5°	178.1	177.8	177.8	179.1	178.1
180°	177.8	177.8	177.8	177.8	177.8

(END OF REPORT)