

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: P1008893

Luminaire Tested: S122DIP-B290D530UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008893
REPORT IS A COMBINATION OF REPORTS P983993 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D530UB50-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

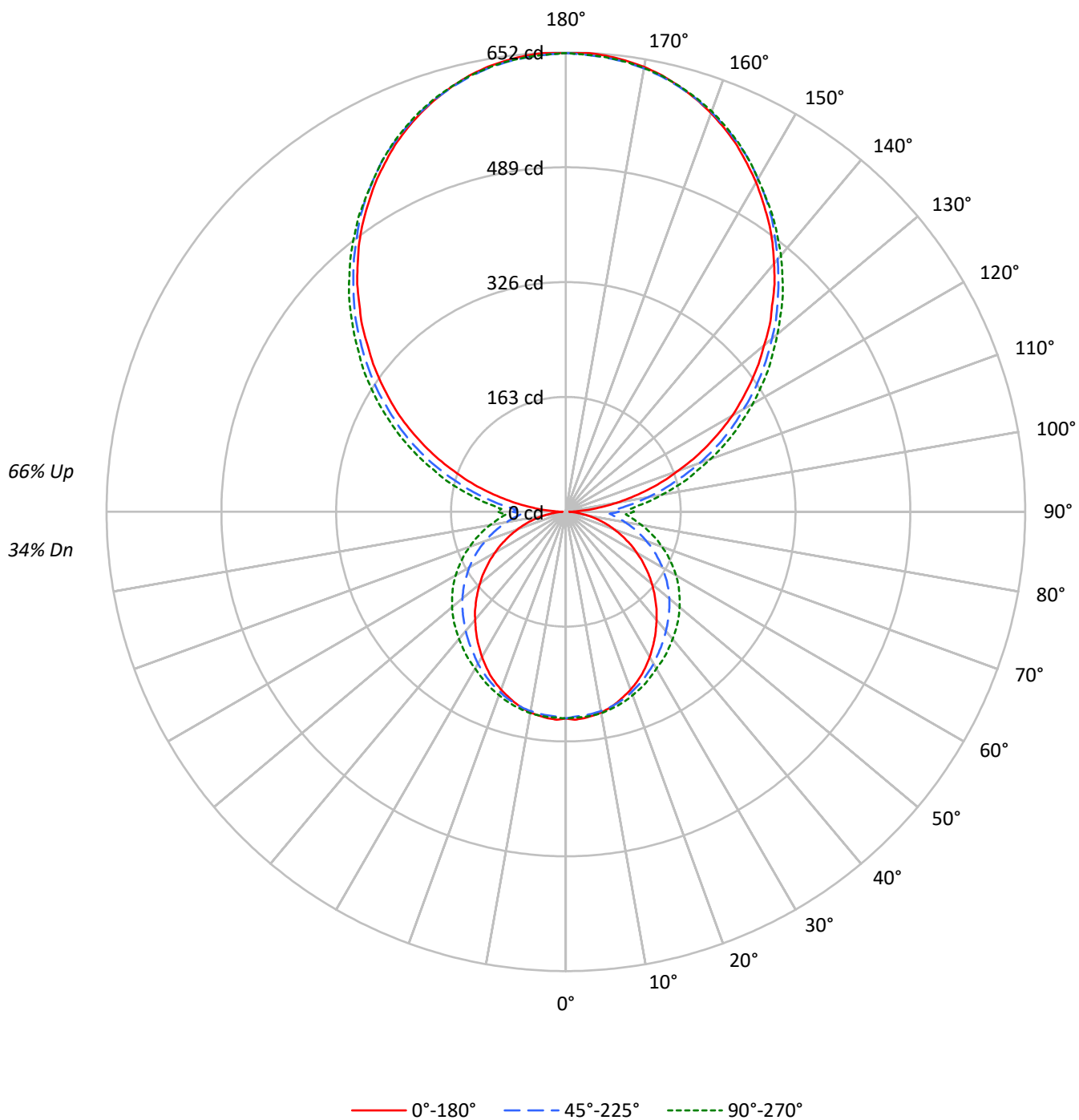
Lumens per Lamp: N/A
Luminaire Lumens: 2941.1 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41			34
1	93	88	84	81	84	80	76	73	64	61	59	49	47	45	35	34	33			26
2	84	77	70	65	76	69	64	59	55	51	48	42	39	37	30	28	27			21
3	77	67	59	54	69	60	54	49	48	44	40	37	34	31	26	24	22			18
4	70	59	51	45	63	53	46	41	43	37	33	33	29	26	23	21	19			15
5	64	52	44	38	57	47	40	35	38	33	29	29	25	22	21	18	16			13
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14			11
7	54	42	34	28	49	38	31	26	31	25	22	24	20	17	17	15	13			10
8	50	38	30	25	45	34	28	23	28	23	19	22	18	15	16	13	11			9
9	47	34	27	22	42	31	25	20	25	20	17	20	16	13	14	12	10			8
10	43	31	24	20	39	29	22	18	23	18	15	18	15	12	13	11	9			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	0.9
10°-20°	79.7	2.7
20°-30°	120.8	4.1
30°-40°	147.1	5.0
40°-50°	158.3	5.4
50°-60°	153.7	5.2
60°-70°	134.3	4.6
70°-80°	103.3	3.5
80°-90°	71.1	2.4
90°-100°	88.0	3.0
100°-110°	162.9	5.5
110°-120°	242.1	8.2
120°-130°	300.9	10.2
130°-140°	328.8	11.2
140°-150°	318.1	10.8
150°-160°	266.0	9.0
160°-170°	176.4	6.0
170°-180°	61.7	2.1
0°-30°	228.3	7.8
0°-40°	375.5	12.8
0°-60°	687.5	23.4
0°-90°	996.1	33.9
90°-120°	493.0	16.8
90°-150°	1440.8	49.0
90°-180°	1945.0	66.1
0°-180°	2941.1	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	36	75	91	97	5
95°	32	58	84	100	104	35
105°	120	134	158	173	178	127
115°	222	230	248	260	263	219
125°	321	326	338	347	351	287
135°	414	420	426	434	436	320
145°	502	506	509	512	512	314
155°	574	576	577	580	578	264
165°	625	624	624	628	625	176
175°	650	648	647	651	648	62
180°	651	651	651	651	651	

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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°	4.8	36.0	75.3	91.2	96.9
92.5°	15.9	42.9	69.3	86.5	91.6
95°	32.0	57.5	84.1	100.2	104.2
97.5°	50.8	74.0	100.8	116.5	121.6
100°	72.8	92.9	118.3	134.0	138.2
102.5°	95.4	112.7	137.8	153.7	157.8
105°	120.2	134.3	157.5	173.4	178.1
107.5°	145.5	157.9	179.2	194.1	196.1
110°	169.3	181.1	201.9	215.5	218.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	195.6	205.7	224.8	236.7	240.2
115°	221.5	229.5	247.5	259.7	262.7
117.5°	246.9	254.7	269.7	280.9	283.4
120°	272.7	278.8	291.4	303.3	306.4
122.5°	296.3	302.2	315.2	325.0	327.7
125°	320.6	325.6	337.5	347.3	350.6
127.5°	344.8	350.4	359.7	368.1	370.3
130°	367.3	374.0	381.9	391.0	392.2
132.5°	392.6	397.6	404.6	411.6	413.4
135°	414.1	420.1	425.5	433.9	435.6
137.5°	438.3	443.2	446.5	454.0	454.8
140°	459.7	464.2	467.9	474.7	475.0
142.5°	481.7	486.2	487.9	493.5	493.4
145°	502.1	506.0	509.3	512.4	512.3
147.5°	520.8	525.8	528.0	529.5	528.6
150°	540.1	543.3	545.5	547.2	545.5
152.5°	557.1	560.4	563.1	565.3	563.1
155°	574.1	575.8	577.4	580.2	578.5
157.5°	588.9	590.0	591.1	595.0	592.2
160°	602.1	603.2	603.8	607.1	604.9
162.5°	614.2	614.2	614.8	618.6	615.9
165°	624.7	624.1	624.1	628.0	625.2
167.5°	634.0	632.3	632.3	636.2	633.4
170°	641.1	639.5	638.9	642.8	639.5
172.5°	646.1	644.4	643.9	647.7	644.4
175°	649.9	648.3	647.2	651.0	647.7
177.5°	652.1	650.5	649.4	652.7	649.4
180°	651.0	651.0	651.0	651.0	651.0

(END OF REPORT)