

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: P1009839

Luminaire Tested: S122RDIP-B290D330UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009839
REPORT IS A COMBINATION OF REPORTS P988077 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B290D330UB30-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

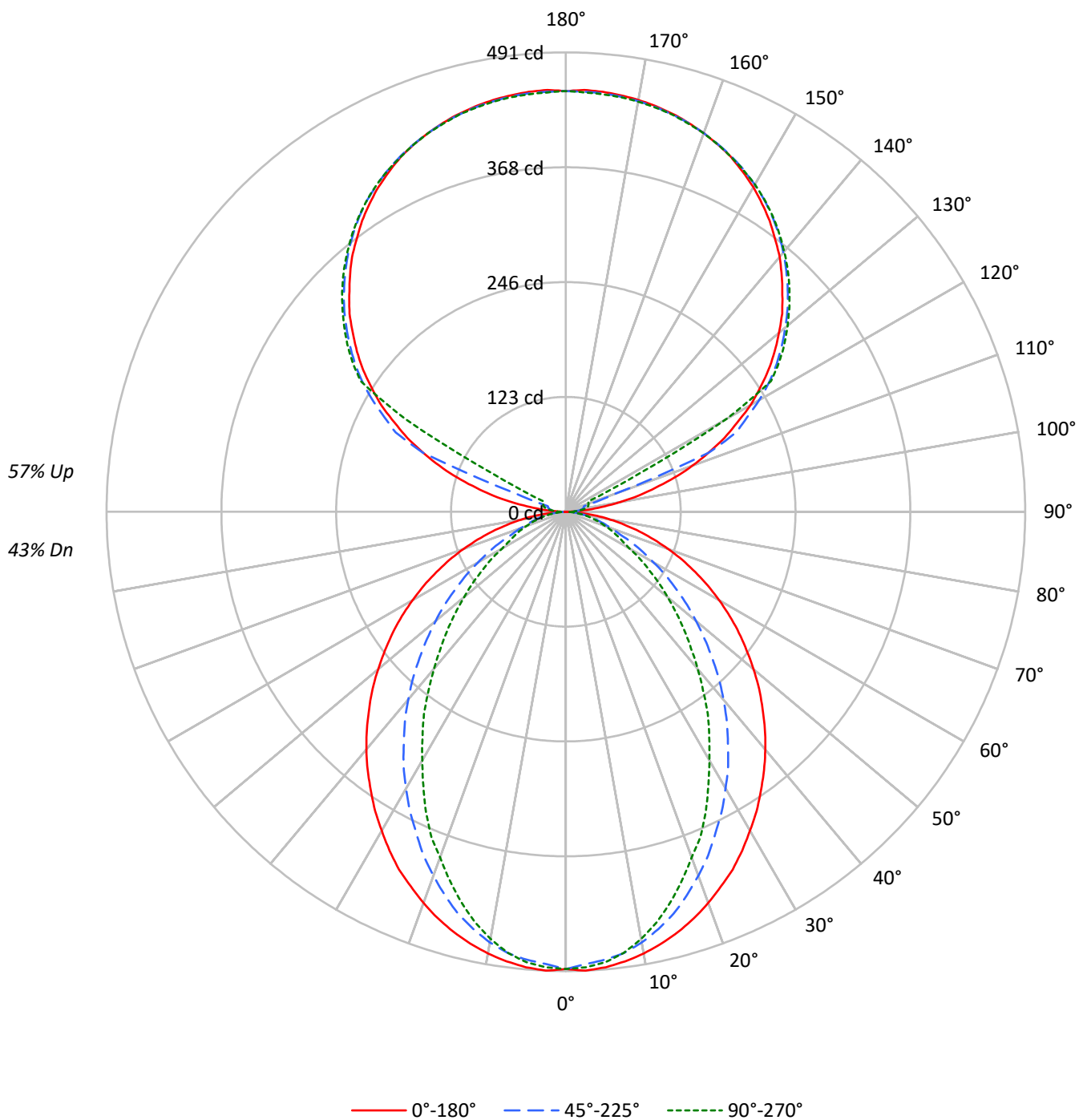
Lumens per Lamp: N/A
Luminaire Lumens: 2324.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50
1	97	93	89	86	88	85	82	79	70	68	66	57	56	54	45	44	43
2	88	81	75	71	81	75	70	65	62	59	55	51	48	46	40	38	37
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	27	24
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	27	24	22
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	23	20	18
9	50	39	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7736	7736	7736
5°	7748	7359	7305
10°	7672	6979	6750
15°	7566	6532	6117
20°	7427	6022	5454
25°	7284	5499	4849
30°	7092	4991	4187
35°	6903	4477	3620
40°	6713	3973	3034
45°	6491	3452	2524
50°	6261	2952	2056
55°	6022	2449	1632
60°	5744	1958	1234
65°	5425	1492	1004
70°	5037	1083	798
75°	4554	827	609
80°	3848	559	410
85°	2684	256	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6491 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	2.0
10°-20°	125.7	5.4
20°-30°	176.5	7.6
30°-40°	192.4	8.3
40°-50°	176.8	7.6
50°-60°	138.9	6.0
60°-70°	90.4	3.9
70°-80°	46.5	2.0
80°-90°	12.7	0.5
90°-100°	14.8	0.6
100°-110°	55.3	2.4
110°-120°	146.6	6.3
120°-130°	243.1	10.5
130°-140°	258.3	11.1
140°-150°	240.0	10.3
150°-160°	193.0	8.3
160°-170°	124.3	5.4
170°-180°	42.8	1.8
0°-30°	348.0	15.0
0°-40°	540.4	23.3
0°-60°	856.2	36.8
0°-90°	1005.8	43.3
90°-120°	216.7	9.3
90°-150°	958.1	41.2
90°-180°	1318.0	56.7
0°-180°	2324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	489	486	481	485	483	46
15°	465	460	445	436	432	131
25°	422	408	378	360	354	194
35°	364	341	302	274	264	228
45°	297	268	221	190	179	230
55°	226	192	144	117	109	202
65°	153	117	77	62	61	151
75°	81	50	35	32	32	86
85°	19	10	8	8	8	22
90°	0	4	6	8	9	2
95°	21	10	13	14	14	25
105°	99	109	20	23	25	106
115°	187	193	201	50	27	184
125°	264	269	275	277	278	236
135°	327	332	335	339	338	253
145°	380	379	385	387	386	237
155°	418	415	419	421	418	193
165°	440	439	440	442	440	124
175°	451	448	449	451	448	43
180°	450	450	450	450	450	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	488.7	488.7	488.7	488.7	488.7
2.5°	490.9	488.7	483.8	488.2	487.3
5°	488.7	486.5	480.7	484.7	483.4
7.5°	484.7	482.0	475.8	477.6	475.4
10°	479.4	476.3	467.4	466.1	463.5
12.5°	472.7	468.8	456.8	454.2	449.3
15°	464.8	459.9	444.9	436.5	432.1
17.5°	455.5	448.4	429.8	420.1	413.0
20°	444.9	436.0	413.9	402.9	393.1
22.5°	433.4	423.2	397.6	382.5	375.9
25°	421.9	407.7	378.5	360.4	353.8
27.5°	408.2	393.1	360.9	340.1	329.9
30°	393.6	376.8	341.4	318.8	306.9
32.5°	379.4	359.1	322.8	296.3	285.2
35°	363.5	341.0	302.0	274.2	264.5
37.5°	348.0	323.7	282.6	252.1	241.0
40°	331.7	305.1	262.2	230.8	219.3
42.5°	314.9	286.6	241.9	209.2	198.1
45°	297.2	267.5	221.1	189.7	179.1
47.5°	280.4	249.0	201.2	169.8	160.1
50°	261.8	230.4	181.8	151.2	142.0
52.5°	243.7	210.5	163.2	134.0	125.6
55°	226.0	191.5	143.7	117.2	108.8
57.5°	207.8	172.5	126.5	101.7	94.6
60°	189.3	153.9	108.3	85.8	78.7
62.5°	171.1	135.8	92.9	71.6	68.1
65°	152.6	116.7	76.9	61.9	60.6
67.5°	134.9	99.1	61.9	54.4	53.1
70°	116.3	81.8	51.3	46.9	45.1
72.5°	98.6	65.9	42.9	39.4	38.5
75°	81.4	50.4	35.4	32.3	31.8
77.5°	64.1	35.8	27.9	26.1	25.2
80°	48.2	25.6	21.2	19.5	19.5
82.5°	33.6	17.2	14.6	13.7	13.7
85°	19.0	9.7	8.4	8.4	8.4
87.5°	7.1	3.5	3.5	3.1	3.1
90°	0.3	3.9	6.5	8.1	8.8
92.5°	8.1	6.8	7.8	8.5	8.8
95°	21.1	10.4	12.7	14.3	14.0
97.5°	38.1	11.4	16.6	17.6	17.9
100°	57.6	13.0	18.5	21.1	21.8
102.5°	79.1	78.4	19.2	22.8	23.8
105°	98.9	108.7	19.8	23.4	24.7
107.5°	122.0	130.1	20.5	24.1	25.4
110°	144.1	151.0	56.9	24.4	25.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.0	170.8	165.3	25.1	26.0
115°	187.1	192.6	200.7	50.1	26.7
117.5°	206.3	212.8	218.3	171.8	86.5
120°	227.8	232.6	238.5	242.4	198.5
122.5°	246.0	251.2	257.7	259.6	260.0
125°	264.5	268.7	274.9	277.2	278.2
127.5°	281.4	286.0	290.9	294.1	294.5
130°	297.4	302.6	306.2	309.7	309.4
132.5°	313.6	317.9	321.5	324.4	324.1
135°	327.3	332.5	335.4	338.7	338.0
137.5°	341.6	345.5	348.8	352.0	351.1
140°	355.6	358.2	361.8	364.7	363.1
142.5°	367.3	369.6	373.8	376.4	374.8
145°	379.7	379.4	384.9	387.2	385.6
147.5°	390.4	389.5	395.0	396.6	395.3
150°	400.8	398.6	403.8	405.7	404.1
152.5°	409.6	407.0	411.9	413.9	411.6
155°	418.1	415.2	419.1	421.0	418.4
157.5°	424.9	422.3	425.2	427.5	424.9
160°	430.8	428.8	430.8	432.7	430.5
162.5°	436.0	434.0	435.7	437.9	435.0
165°	440.5	438.6	439.6	441.8	439.6
167.5°	444.1	442.2	443.1	445.4	442.5
170°	447.0	445.1	445.7	448.0	445.1
172.5°	449.0	447.0	447.7	450.0	447.0
175°	450.6	448.3	449.0	451.3	448.0
177.5°	451.3	449.0	449.3	451.6	448.7
180°	449.6	449.6	449.6	449.6	449.6

(END OF REPORT)