

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1059053

Luminaire Tested: S123RDRP-S1000D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D930-X4F0-XX-UDD-SVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

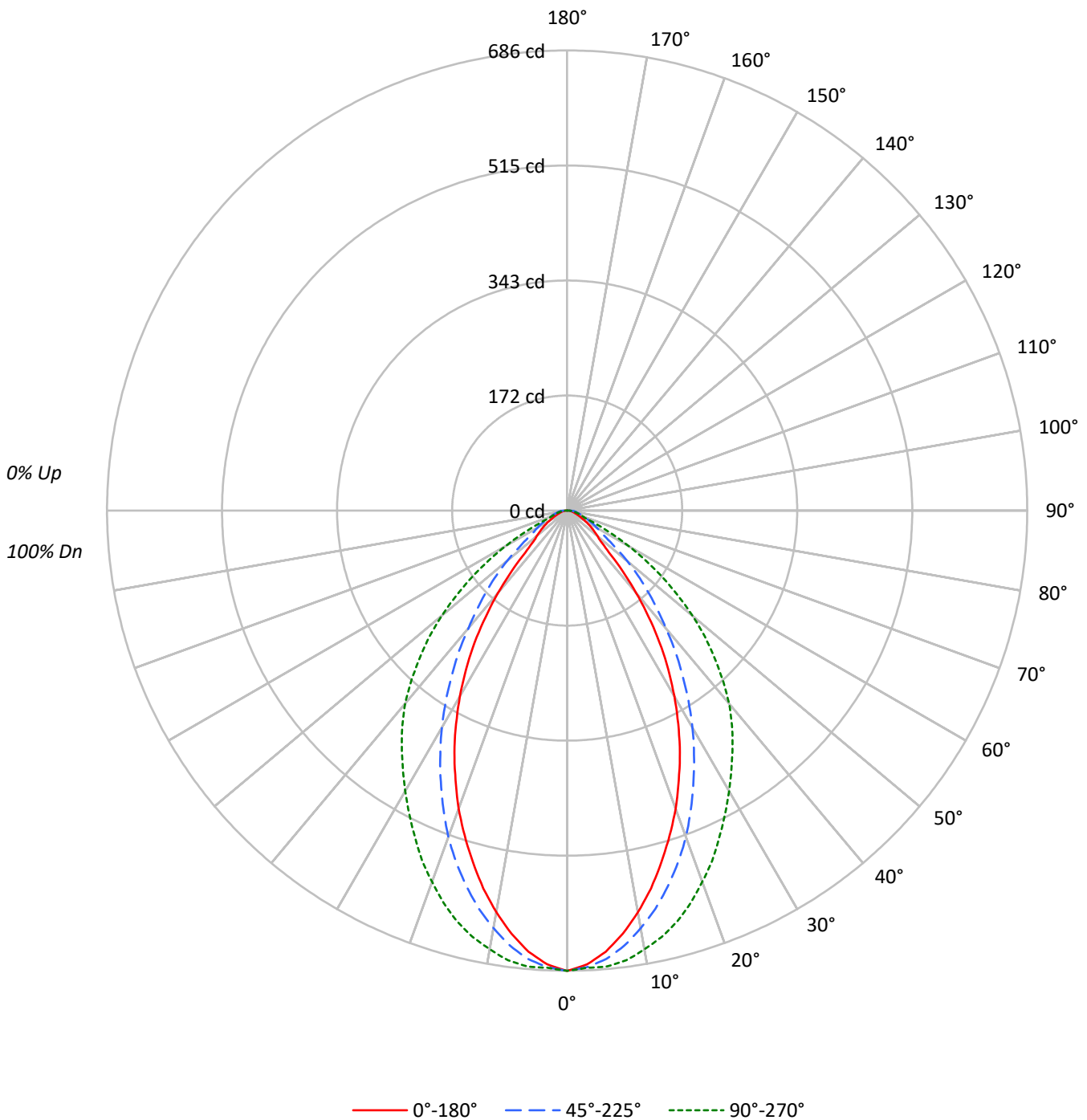
Lumens per Lamp: N/A
Luminaire Lumens: 918.9 lumens
Efficiency: N/A
Efficacy: 26.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): 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									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																												
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																												
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																												
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64																												
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58																												
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52																												
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48																												
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44																												
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40																												
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8058	8058	8058
5°	7781	7910	8041
10°	7250	7537	7918
15°	6600	7051	7709
20°	5908	6472	7360
25°	5153	5776	6956
30°	4332	5066	6546
35°	3446	4293	6160
40°	2457	3501	5757
45°	1465	2811	5156
50°	1080	2141	4465
55°	903	1456	3548
60°	730	1200	2494
65°	583	1031	1336
70°	481	893	824
75°	454	862	771
80°	473	947	744
85°	674	1347	943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5156 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	6.9
10°-20°	163.7	17.8
20°-30°	208.9	22.7
30°-40°	196.5	21.4
40°-50°	141.2	15.4
50°-60°	81.0	8.8
60°-70°	37.0	4.0
70°-80°	18.6	2.0
80°-90°	9.1	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	435.6	47.4
0°-40°	632.1	68.8
0°-60°	854.3	93.0
0°-90°	918.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	918.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	660	673	671	676	682	61
15°	543	562	580	611	634	152
25°	398	416	446	494	537	182
35°	240	257	300	368	430	149
45°	88	107	169	249	310	74
55°	44	45	71	131	173	40
65°	21	29	37	41	48	21
75°	10	20	19	17	17	11
85°	5	10	10	9	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686.2	686.2	686.2	686.2	686.2
2.5°	677.2	687.2	681.2	681.2	682.2
5°	660.1	673.1	671.1	676.2	682.2
7.5°	636.1	650.1	654.1	666.1	676.2
10°	608.0	624.1	632.1	651.1	664.1
12.5°	577.0	595.0	608.0	632.1	651.1
15°	542.9	562.0	580.0	611.0	634.1
17.5°	507.9	526.9	549.9	586.0	613.0
20°	472.8	491.8	517.9	555.9	589.0
22.5°	434.7	453.8	481.8	524.9	565.0
25°	397.7	415.7	445.8	493.8	536.9
27.5°	358.6	376.6	409.7	461.8	509.9
30°	319.5	337.6	373.6	429.7	482.8
32.5°	280.5	297.5	336.6	398.7	455.8
35°	240.4	257.4	299.5	367.6	429.7
37.5°	199.3	216.4	265.5	339.6	403.7
40°	160.3	179.3	228.4	311.5	375.6
42.5°	122.2	142.2	198.3	281.5	343.6
45°	88.2	107.2	169.3	249.4	310.5
47.5°	67.1	77.1	143.2	217.4	278.5
50°	59.1	60.1	117.2	188.3	244.4
52.5°	51.1	52.1	91.2	160.3	208.4
55°	44.1	45.1	71.1	131.2	173.3
57.5°	37.1	39.1	58.1	104.2	139.2
60°	31.1	35.1	51.1	79.1	106.2
62.5°	25.0	32.1	44.1	58.1	76.1
65°	21.0	29.0	37.1	41.1	48.1
67.5°	17.0	27.0	31.1	29.0	29.0
70°	14.0	24.0	26.0	24.0	24.0
72.5°	12.0	23.0	22.0	20.0	20.0
75°	10.0	20.0	19.0	17.0	17.0
77.5°	9.0	17.0	16.0	15.0	14.0
80°	7.0	14.0	14.0	13.0	11.0
82.5°	6.0	12.0	12.0	11.0	9.0
85°	5.0	10.0	10.0	9.0	7.0
87.5°	4.0	9.0	9.0	8.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	7.24	8.56	7.61	8.87	9.19	14.46	15.78	14.82	16.09	16.40
	3H	8.63	9.80	9.01	10.13	10.50	14.69	15.86	15.07	16.19	16.56
	4H	9.19	10.28	9.60	10.63	11.02	14.80	15.89	15.20	16.24	16.62
	6H	9.65	10.65	10.07	11.02	11.42	14.91	15.91	15.32	16.28	16.67
	8H	9.84	10.79	10.27	11.18	11.58	14.95	15.90	15.38	16.29	16.70
	12H	10.03	10.94	10.46	11.32	11.75	15.00	15.91	15.44	16.29	16.72
4H	2H	8.31	9.40	8.72	9.75	10.14	14.42	15.51	14.82	15.86	16.24
	3H	10.00	10.89	10.41	11.29	11.70	14.79	15.68	15.20	16.08	16.49
	4H	10.83	11.63	11.26	12.05	12.49	14.97	15.77	15.40	16.19	16.63
	6H	11.48	12.18	11.95	12.62	13.09	15.19	15.88	15.65	16.33	16.79
	8H	11.74	12.38	12.21	12.83	13.30	15.29	15.94	15.76	16.38	16.85
	12H	11.99	12.57	12.48	13.05	13.52	15.41	15.98	15.89	16.46	16.94
8H	4H	11.26	11.91	11.73	12.35	12.83	15.01	15.66	15.48	16.11	16.58
	6H	12.21	12.74	12.71	13.24	13.72	15.34	15.87	15.85	16.37	16.85
	8H	12.68	13.15	13.20	13.67	14.16	15.53	16.01	16.05	16.53	17.02
	12H	13.15	13.58	13.67	14.07	14.64	15.77	16.19	16.28	16.68	17.25
12H	4H	11.32	11.89	11.81	12.38	12.85	15.01	15.58	15.49	16.06	16.53
	6H	12.36	12.84	12.88	13.35	13.84	15.37	15.85	15.89	16.36	16.85
	8H	12.95	13.37	13.46	13.87	14.44	15.63	16.05	16.14	16.55	17.12