

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: P1059052

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-29)
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-B
Description: DEFINE 3 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

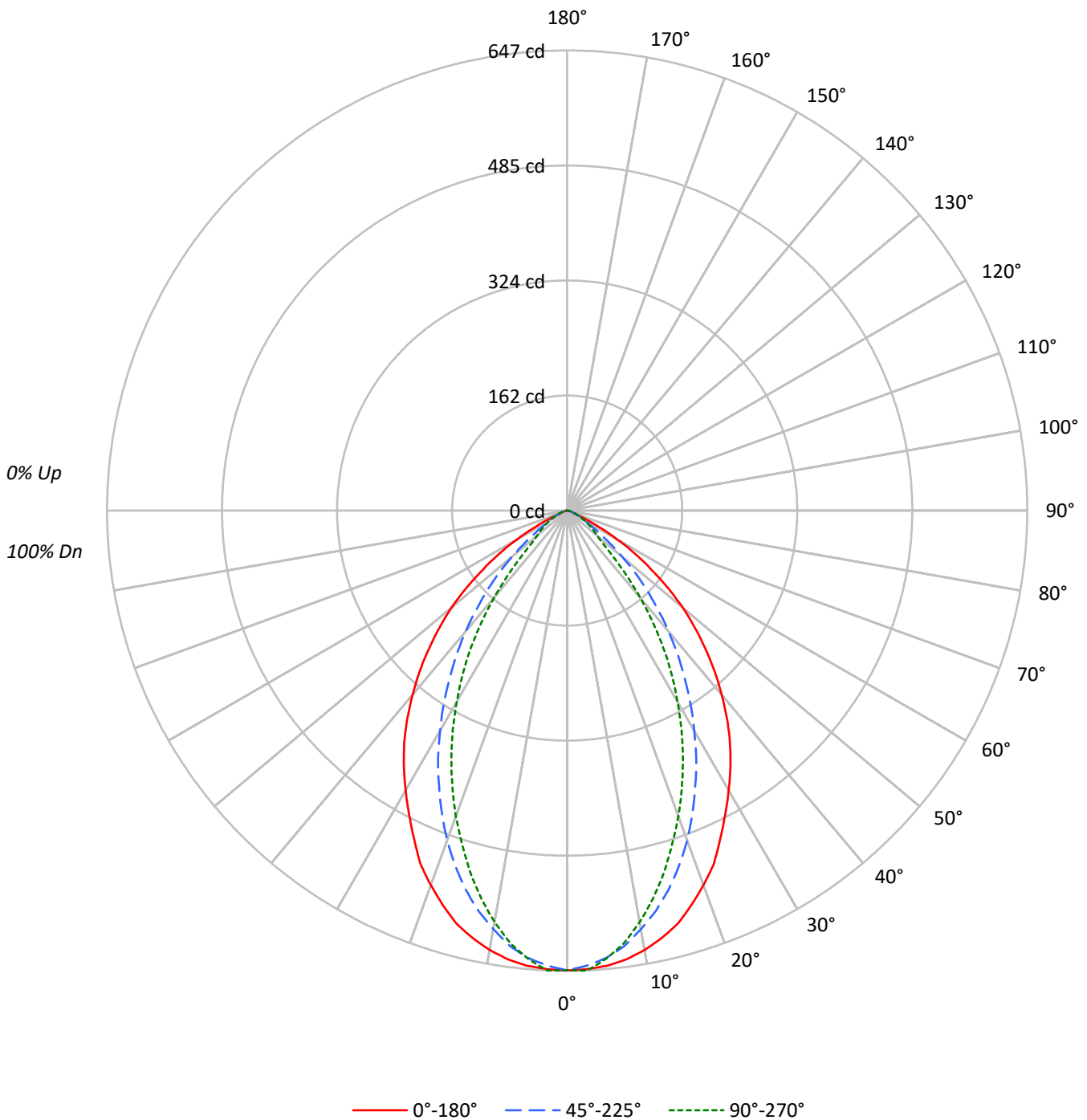
Lumens per Lamp: N/A
Luminaire Lumens: 834.5 lumens
Efficiency: N/A
Efficacy: 23.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 0.85 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	48	46
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7590	7590	7590
5°	7572	7442	7454
10°	7481	7123	7004
15°	7311	6703	6398
20°	7003	6164	5714
25°	6599	5523	4991
30°	6160	4843	4206
35°	5724	4131	3386
40°	5184	3404	2454
45°	4570	2642	1480
50°	3875	1847	1005
55°	2950	1106	839
60°	1928	705	658
65°	806	528	528
70°	275	378	412
75°	227	272	318
80°	135	203	270
85°	135	135	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4570 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	7.2
10°-20°	156.2	18.7
20°-30°	200.4	24.0
30°-40°	188.0	22.5
40°-50°	131.2	15.7
50°-60°	67.8	8.1
60°-70°	23.2	2.8
70°-80°	6.6	0.8
80°-90°	1.4	0.2
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°	416.3	49.9
0°-40°	604.3	72.4
0°-60°	803.3	96.3
0°-90°	834.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	646	646	646	646	646	
5°	642	641	631	634	632	61
15°	601	586	551	533	526	169
25°	509	477	426	397	385	234
35°	399	350	288	251	236	249
45°	275	225	159	110	89	212
55°	144	108	54	42	41	130
65°	29	25	19	18	19	34
75°	5	5	6	7	7	5
85°	1	1	1	1	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.4	646.4	646.4	646.4	646.4
2.5°	645.4	646.4	640.4	646.4	647.4
5°	642.4	641.4	631.4	634.4	632.4
7.5°	636.4	633.4	617.4	613.4	613.4
10°	627.4	621.4	597.4	590.4	587.4
12.5°	615.4	607.4	576.4	563.4	558.4
15°	601.4	586.4	551.4	533.3	526.3
17.5°	581.4	561.4	523.3	502.3	491.3
20°	560.4	535.3	493.3	468.3	457.3
22.5°	538.3	508.3	460.3	433.3	421.3
25°	509.3	477.3	426.3	397.3	385.2
27.5°	481.3	447.3	393.3	360.2	348.2
30°	454.3	414.3	357.2	325.2	310.2
32.5°	427.3	382.2	323.2	288.2	274.2
35°	399.3	350.2	288.2	251.2	236.2
37.5°	369.2	319.2	255.2	215.1	197.1
40°	338.2	286.2	222.1	177.1	160.1
42.5°	307.2	256.2	189.1	143.1	123.1
45°	275.2	225.1	159.1	110.1	89.1
47.5°	243.2	194.1	130.1	80.1	67.0
50°	212.1	165.1	101.1	59.0	55.0
52.5°	178.1	137.1	76.0	49.0	48.0
55°	144.1	108.1	54.0	42.0	41.0
57.5°	114.1	84.1	39.0	35.0	34.0
60°	82.1	60.0	30.0	29.0	28.0
62.5°	54.0	41.0	24.0	23.0	23.0
65°	29.0	25.0	19.0	18.0	19.0
67.5°	12.0	14.0	14.0	15.0	15.0
70°	8.0	9.0	11.0	12.0	12.0
72.5°	6.0	7.0	8.0	9.0	9.0
75°	5.0	5.0	6.0	7.0	7.0
77.5°	3.0	4.0	4.0	5.0	6.0
80°	2.0	3.0	3.0	4.0	4.0
82.5°	1.0	2.0	2.0	3.0	3.0
85°	1.0	1.0	1.0	1.0	2.0
87.5°	0.0	0.0	0.0	0.0	1.0
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	13.38	14.64	13.74	14.95	15.26	6.88	8.14	7.24	8.45	8.76
	3H	13.33	14.44	13.71	14.77	15.14	7.65	8.76	8.03	9.09	9.46
	4H	13.28	14.31	13.68	14.66	15.04	7.85	8.88	8.26	9.23	9.62
	6H	13.21	14.15	13.62	14.52	14.92	8.00	8.94	8.41	9.31	9.71
	8H	13.16	14.06	13.60	14.45	14.85	8.03	8.92	8.46	9.32	9.72
	12H	13.12	13.97	13.55	14.36	14.79	8.05	8.90	8.48	9.28	9.72
4H	2H	13.22	14.25	13.63	14.61	14.99	7.13	8.16	7.54	8.51	8.90
	3H	13.21	14.04	13.62	14.45	14.85	8.04	8.87	8.45	9.28	9.68
	4H	13.16	13.90	13.59	14.32	14.76	8.31	9.06	8.75	9.48	9.92
	6H	13.10	13.74	13.56	14.19	14.65	8.53	9.17	8.99	9.61	10.08
	8H	13.05	13.64	13.52	14.09	14.56	8.59	9.19	9.06	9.63	10.11
	12H	13.00	13.53	13.49	14.01	14.49	8.63	9.15	9.12	9.64	10.11
8H	4H	13.04	13.64	13.52	14.09	14.56	8.30	8.89	8.77	9.34	9.81
	6H	12.98	13.47	13.49	13.96	14.45	8.57	9.05	9.07	9.55	10.03
	8H	12.93	13.37	13.46	13.88	14.38	8.67	9.11	9.20	9.63	10.12
	12H	12.89	13.28	13.41	13.77	14.35	8.75	9.13	9.26	9.63	10.20
12H	4H	13.00	13.52	13.49	14.01	14.48	8.26	8.78	8.75	9.27	9.74
	6H	12.92	13.36	13.45	13.88	14.37	8.53	8.96	9.05	9.48	9.97
	8H	12.89	13.28	13.41	13.77	14.35	8.67	9.05	9.18	9.55	10.12