

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: P1059077

Luminaire Tested: S123RDRP-S1000D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-69)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D950-X4F0-XX-UDD-BVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

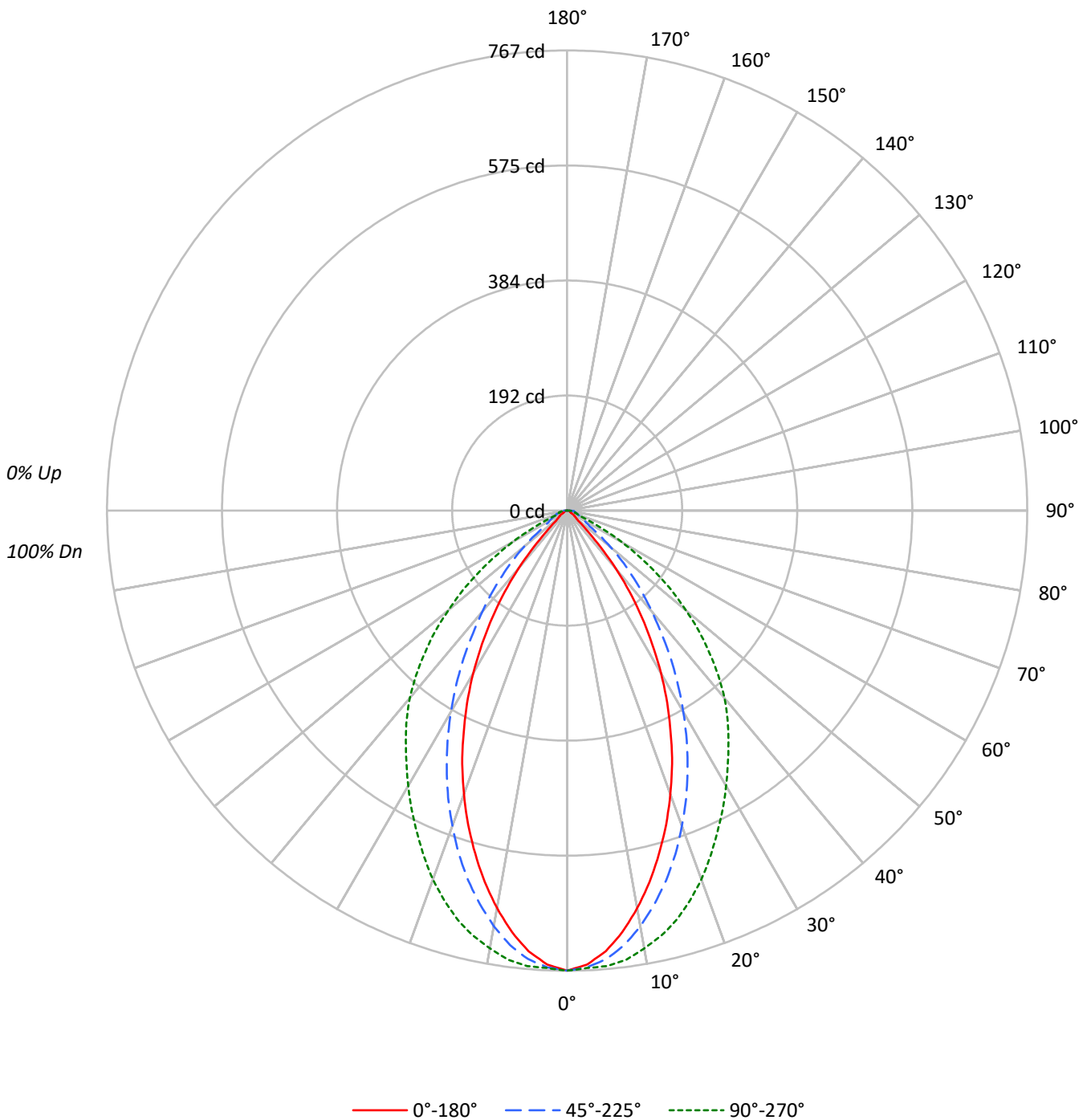
Lumens per Lamp: N/A
Luminaire Lumens: 921.0 lumens
Efficiency: N/A
Efficacy: 26.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.06 / 0.94
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	61	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9003	9003	9003
5°	8692	8844	8982
10°	8023	8387	8834
15°	7197	7754	8580
20°	6284	6988	8175
25°	5286	6152	7670
30°	4244	5246	7185
35°	3109	4319	6722
40°	1922	3360	6254
45°	739	2531	5568
50°	364	1735	4711
55°	289	960	3695
60°	193	798	2478
65°	164	717	1109
70°	161	645	645
75°	213	690	640
80°	318	872	717
85°	472	1428	943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5568 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	7.6
10°-20°	180.0	19.5
20°-30°	223.4	24.3
30°-40°	200.1	21.7
40°-50°	131.5	14.3
50°-60°	65.9	7.2
60°-70°	26.0	2.8
70°-80°	14.6	1.6
80°-90°	9.2	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°	473.6	51.4
0°-40°	673.8	73.2
0°-60°	871.2	94.6
0°-90°	921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	737	749	750	755	762	68
15°	592	611	638	681	706	165
25°	408	434	475	542	592	187
35°	217	246	301	394	469	135
45°	44	74	152	257	335	42
55°	14	16	47	127	180	13
65°	6	16	26	33	40	6
75°	5	15	15	14	14	5
85°	4	11	11	11	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.7	766.7	766.7	766.7	766.7
2.5°	757.3	767.9	762.0	762.0	763.2
5°	737.4	749.1	750.3	755.0	762.0
7.5°	708.1	723.3	730.4	744.4	755.0
10°	672.9	689.3	703.4	728.0	740.9
12.5°	634.2	650.7	671.8	705.8	725.7
15°	592.0	610.8	637.8	681.1	705.8
17.5°	548.7	567.4	600.2	649.5	681.1
20°	502.9	524.0	559.2	615.5	654.2
22.5°	457.2	480.7	518.2	579.1	623.7
25°	408.0	433.8	474.8	541.6	592.0
27.5°	361.1	388.1	431.4	504.1	561.6
30°	313.0	340.0	386.9	465.4	529.9
32.5°	263.8	294.3	343.5	429.1	498.3
35°	216.9	246.2	301.3	393.9	468.9
37.5°	171.2	200.5	257.9	359.9	439.6
40°	125.4	155.9	219.2	327.1	408.0
42.5°	82.1	113.7	185.2	294.3	372.8
45°	44.5	73.9	152.4	256.7	335.3
47.5°	24.6	39.9	123.1	221.6	299.0
50°	19.9	22.3	95.0	188.7	257.9
52.5°	16.4	18.8	68.0	157.1	220.4
55°	14.1	16.4	46.9	126.6	180.5
57.5°	11.7	14.1	37.5	97.3	141.9
60°	8.2	14.1	34.0	71.5	105.5
62.5°	7.0	14.1	29.3	49.2	70.3
65°	5.9	16.4	25.8	32.8	39.9
67.5°	4.7	16.4	22.3	21.1	21.1
70°	4.7	16.4	18.8	17.6	18.8
72.5°	4.7	17.6	17.6	16.4	16.4
75°	4.7	15.2	15.2	14.1	14.1
77.5°	4.7	14.1	14.1	12.9	12.9
80°	4.7	12.9	12.9	11.7	10.6
82.5°	4.7	11.7	11.7	10.6	9.4
85°	3.5	10.6	10.6	10.6	7.0
87.5°	3.5	9.4	10.6	9.4	5.9
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	0.10	1.36	0.47	1.67	1.99	14.18	15.44	14.55	15.75	16.07
	3H	2.62	3.73	3.00	4.06	4.43	14.26	15.37	14.64	15.70	16.07
	4H	3.79	4.82	4.19	5.17	5.56	14.32	15.36	14.73	15.71	16.10
	6H	4.84	5.79	5.26	6.16	6.56	14.42	15.37	14.84	15.74	16.14
	8H	5.38	6.28	5.81	6.67	7.08	14.48	15.38	14.91	15.77	16.18
	12H	5.86	6.72	6.29	7.10	7.53	14.55	15.41	14.99	15.80	16.23
4H	2H	3.36	4.39	3.76	4.75	5.13	14.04	15.08	14.45	15.43	15.81
	3H	5.82	6.67	6.23	7.07	7.48	14.22	15.06	14.63	15.47	15.87
	4H	7.16	7.92	7.60	8.34	8.78	14.34	15.10	14.78	15.52	15.97
	6H	8.30	8.95	8.76	9.40	9.86	14.56	15.21	15.02	15.66	16.13
	8H	8.81	9.42	9.28	9.86	10.34	14.69	15.30	15.16	15.75	16.22
	12H	9.26	9.80	9.75	10.29	10.76	14.85	15.39	15.33	15.87	16.34
8H	4H	8.08	8.69	8.55	9.14	9.61	14.35	14.96	14.82	15.41	15.88
	6H	9.68	10.18	10.18	10.68	11.16	14.68	15.18	15.18	15.68	16.16
	8H	10.50	10.96	11.03	11.47	11.96	14.91	15.36	15.43	15.88	16.37
	12H	11.29	11.69	11.80	12.18	12.75	15.23	15.63	15.75	16.13	16.70
12H	4H	8.25	8.79	8.73	9.27	9.74	14.34	14.88	14.82	15.36	15.84
	6H	9.99	10.45	10.52	10.96	11.46	14.71	15.16	15.23	15.68	16.17
	8H	11.00	11.40	11.52	11.90	12.47	15.02	15.42	15.54	15.91	16.49