

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: P1059080

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059080
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-S1000D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

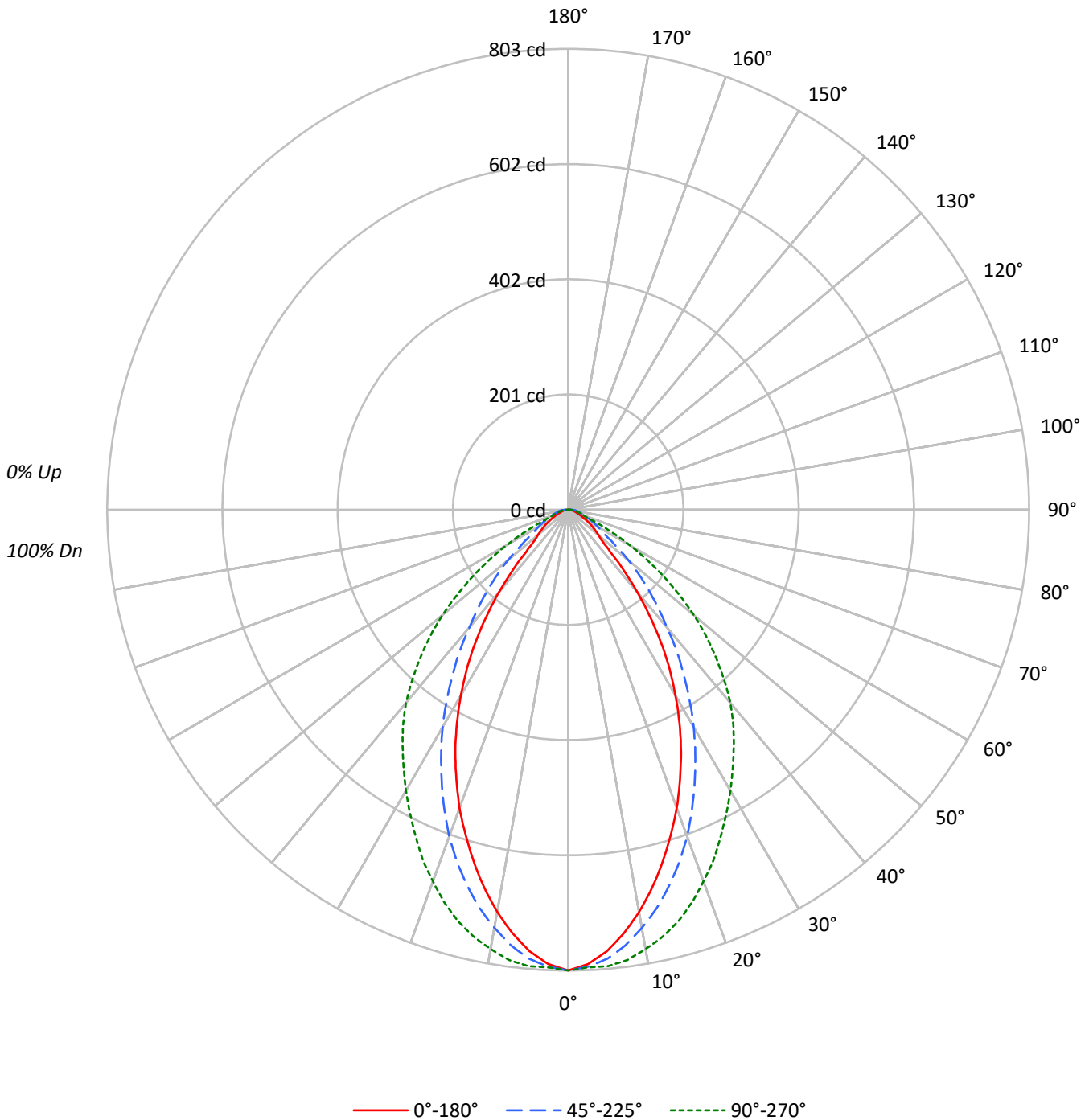
Lumens per Lamp: N/A
Luminaire Lumens: 1075.3 lumens
Efficiency: N/A
Efficacy: 30.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	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	58	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°	9428	9428	9428
5°	9105	9257	9409
10°	8484	8819	9266
15°	7723	8251	9020
20°	6913	7573	8612
25°	6029	6758	8140
30°	5070	5928	7661
35°	4032	5024	7208
40°	2874	4096	6737
45°	1712	3290	6035
50°	1264	2505	5225
55°	1056	1703	4152
60°	853	1404	2917
65°	684	1206	1564
70°	563	1047	965
75°	531	1012	903
80°	555	1109	872
85°	795	1576	1105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6035 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	6.9
10°-20°	191.6	17.8
20°-30°	244.4	22.7
30°-40°	229.9	21.4
40°-50°	165.2	15.4
50°-60°	94.7	8.8
60°-70°	43.3	4.0
70°-80°	21.8	2.0
80°-90°	10.6	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°	509.7	47.4
0°-40°	739.7	68.8
0°-60°	999.6	93.0
0°-90°	1075.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1075.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	772	788	785	791	798	72
15°	635	658	679	715	742	177
25°	465	486	522	578	628	212
35°	281	301	350	430	503	174
45°	103	125	198	292	363	86
55°	52	53	83	154	203	46
65°	25	34	43	48	56	25
75°	12	23	22	20	20	13
85°	6	12	12	10	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.9	802.9	802.9	802.9	802.9
2.5°	792.4	804.1	797.0	797.0	798.2
5°	772.4	787.7	785.3	791.2	798.2
7.5°	744.3	760.7	765.4	779.5	791.2
10°	711.5	730.2	739.6	761.9	777.1
12.5°	675.1	696.2	711.5	739.6	761.9
15°	635.3	657.6	678.7	715.0	742.0
17.5°	594.3	616.5	643.5	685.7	717.3
20°	553.2	575.5	606.0	650.5	689.2
22.5°	508.7	531.0	563.8	614.2	661.1
25°	465.3	486.4	521.6	577.9	628.3
27.5°	419.6	440.7	479.4	540.3	596.6
30°	373.9	395.0	437.2	502.8	565.0
32.5°	328.2	348.1	393.8	466.5	533.3
35°	281.3	301.2	350.5	430.2	502.8
37.5°	233.3	253.2	310.6	397.3	472.4
40°	187.5	209.8	267.2	364.5	439.5
42.5°	143.0	166.4	232.1	329.4	402.0
45°	103.1	125.4	198.1	291.9	363.4
47.5°	78.5	90.3	167.6	254.4	325.9
50°	69.2	70.3	137.1	220.4	286.0
52.5°	59.8	61.0	106.7	187.5	243.8
55°	51.6	52.7	83.2	153.5	202.8
57.5°	43.4	45.7	68.0	121.9	162.9
60°	36.3	41.0	59.8	92.6	124.2
62.5°	29.3	37.5	51.6	68.0	89.1
65°	24.6	34.0	43.4	48.1	56.3
67.5°	19.9	31.6	36.3	34.0	34.0
70°	16.4	28.1	30.5	28.1	28.1
72.5°	14.1	27.0	25.8	23.4	23.4
75°	11.7	23.4	22.3	19.9	19.9
77.5°	10.5	19.9	18.8	17.6	16.4
80°	8.2	16.4	16.4	15.2	12.9
82.5°	7.0	14.1	14.1	12.9	10.5
85°	5.9	11.7	11.7	10.5	8.2
87.5°	4.7	10.5	10.5	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	7.78	9.10	8.14	9.41	9.72	15.00	16.32	15.37	16.63	16.95
	3H	9.18	10.35	9.56	10.68	11.04	15.24	16.41	15.62	16.74	17.10
	4H	9.74	10.83	10.14	11.18	11.56	15.35	16.43	15.75	16.79	17.17
	6H	10.20	11.20	10.61	11.57	11.96	15.45	16.45	15.87	16.82	17.22
	8H	10.38	11.33	10.81	11.72	12.13	15.50	16.45	15.93	16.84	17.24
	12H	10.57	11.48	11.01	11.86	12.29	15.55	16.46	15.98	16.84	17.27
4H	2H	8.85	9.94	9.26	10.30	10.68	14.96	16.05	15.37	16.40	16.79
	3H	10.54	11.43	10.96	11.84	12.24	15.33	16.22	15.75	16.63	17.03
	4H	11.37	12.17	11.81	12.59	13.03	15.51	16.31	15.95	16.73	17.18
	6H	12.03	12.72	12.49	13.17	13.63	15.74	16.43	16.20	16.87	17.34
	8H	12.29	12.93	12.75	13.38	13.85	15.84	16.48	16.31	16.93	17.40
	12H	12.54	13.11	13.03	13.60	14.07	15.95	16.53	16.44	17.01	17.48
8H	4H	11.81	12.46	12.28	12.90	13.37	15.56	16.21	16.03	16.65	17.12
	6H	12.76	13.29	13.26	13.79	14.27	15.89	16.42	16.39	16.92	17.40
	8H	13.23	13.70	13.75	14.22	14.71	16.08	16.56	16.60	17.07	17.57
	12H	13.71	14.13	14.22	14.62	15.19	16.31	16.74	16.83	17.23	17.80
12H	4H	11.87	12.44	12.36	12.92	13.40	15.55	16.12	16.04	16.61	17.08
	6H	12.91	13.39	13.43	13.90	14.39	15.92	16.40	16.44	16.91	17.40
	8H	13.50	13.93	14.02	14.42	14.99	16.18	16.60	16.69	17.10	17.67