

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: P1059080

Luminaire Tested: S123RDR-S1000D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S123RDR-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

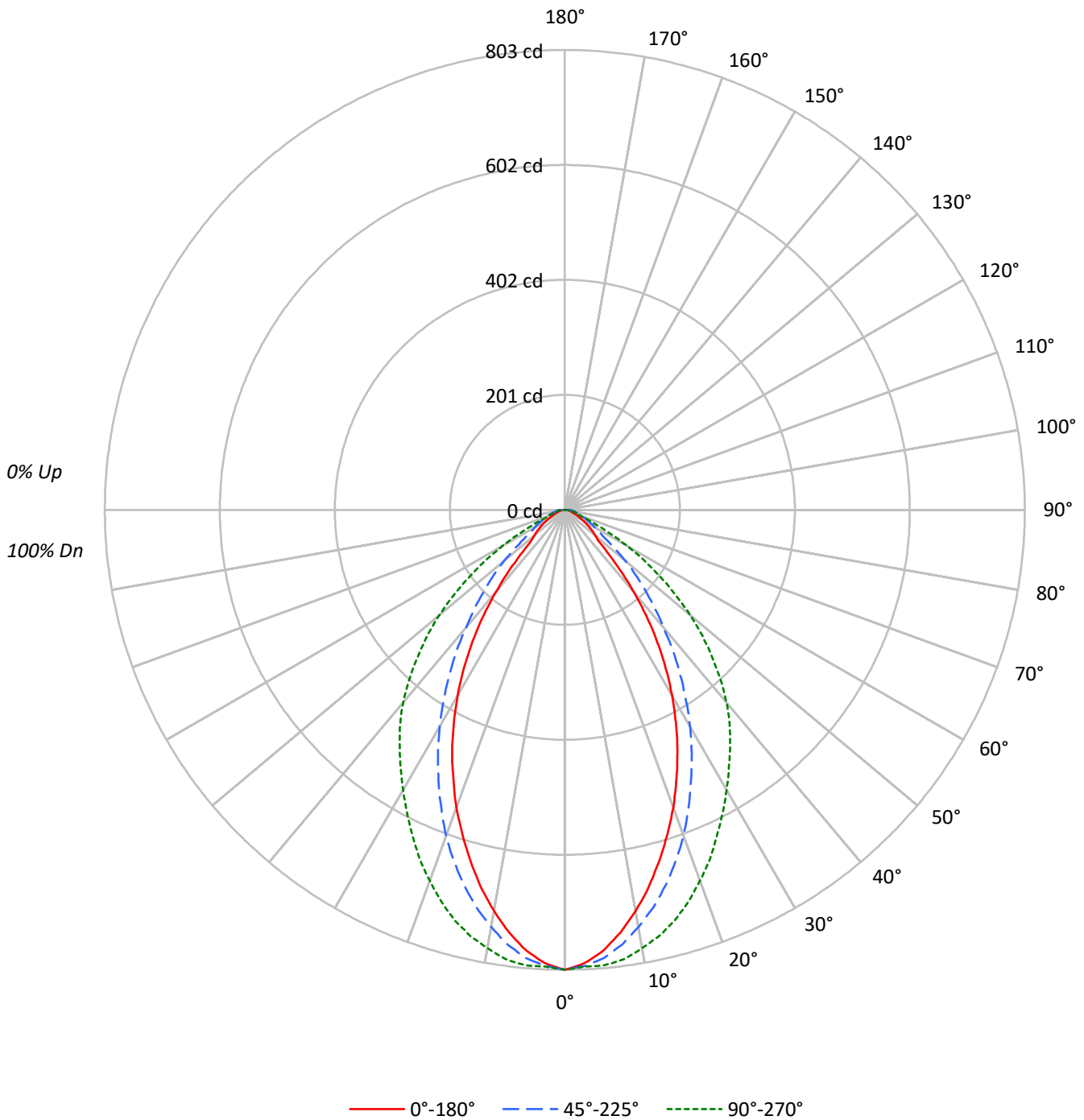
Lumens per Lamp: N/A
Luminaire Lumens: 1075.3 lumens
Efficiency: N/A
Efficacy: 30.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (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

TEST NUMBER: P1059080

CATALOG NUMBER: S123RDR-S1000D950-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1059080

CATALOG NUMBER: S123RDR-S1000D950-X4F0-XX-UDD-SVL-S

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



TEST NUMBER: P1059080

CATALOG NUMBER: S123RDR-S1000D950-X4F0-XX-UDD-SVL-S

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	



TEST NUMBER: P1059080

CATALOG NUMBER: S123RDR-S1000D950-X4F0-XX-UDD-SVL-S

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

(END OF REPORT)