

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: P1059081

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)
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-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

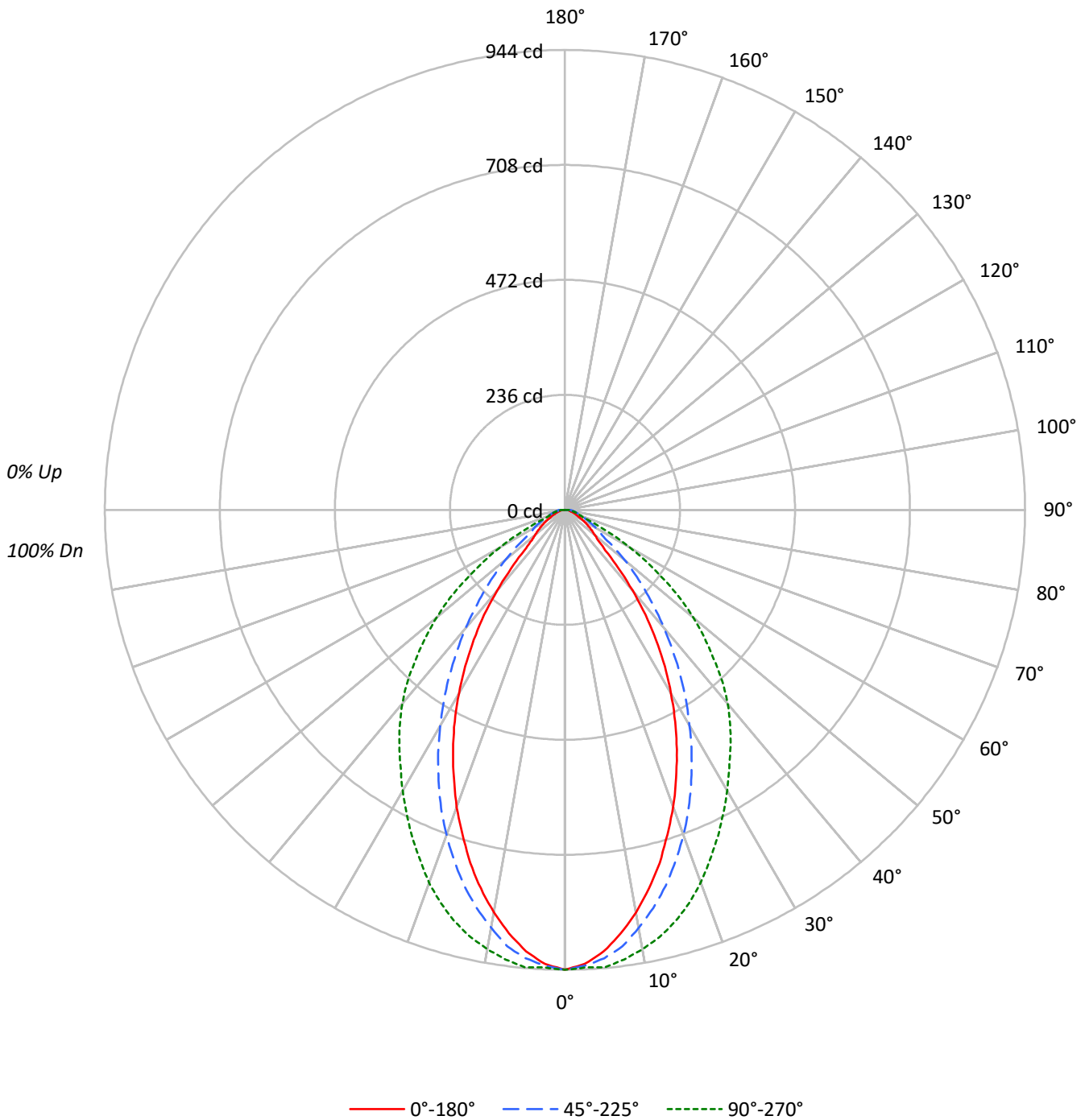
Lumens per Lamp: N/A
Luminaire Lumens: 1266.9 lumens
Efficiency: N/A
Efficacy: 36.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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: P1059081

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

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	102	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	90	81	74	68	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	60	69	64	60	68	63	59	58
6	79	68	61	55	78	67	60	55	66	59	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	55	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	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11083	11083	11083
5°	10724	10890	11111
10°	10009	10387	10917
15°	9121	9706	10632
20°	8116	8878	10182
25°	7033	7945	9601
30°	5898	6931	9029
35°	4672	5899	8488
40°	3306	4852	7962
45°	1946	3836	7164
50°	1456	2912	6275
55°	1224	1967	5040
60°	991	1679	3579
65°	781	1434	1889
70°	683	1246	1167
75°	640	1171	1116
80°	636	1271	1109
85°	795	1900	1428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7164 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	6.9
10°-20°	225.7	17.8
20°-30°	287.5	22.7
30°-40°	270.4	21.3
40°-50°	194.8	15.4
50°-60°	112.5	8.9
60°-70°	51.4	4.1
70°-80°	25.7	2.0
80°-90°	12.1	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°	600.1	47.4
0°-40°	870.5	68.7
0°-60°	1177.7	93.0
0°-90°	1266.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	910	925	924	933	943	85
15°	750	777	798	843	875	209
25°	543	571	613	681	741	248
35°	326	354	412	506	592	202
45°	117	147	231	347	431	99
55°	60	62	96	183	246	54
65°	28	40	52	57	68	29
75°	14	27	26	25	25	15
85°	6	13	14	13	11	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.8	943.8	943.8	943.8	943.8
2.5°	933.2	945.0	936.8	937.9	940.3
5°	909.8	925.0	923.9	933.2	942.6
7.5°	877.0	894.5	903.9	918.0	930.9
10°	839.4	859.4	871.1	896.9	915.6
12.5°	796.1	821.9	837.1	871.1	898.1
15°	750.3	777.3	798.4	843.0	874.6
17.5°	698.8	728.1	755.0	807.8	846.5
20°	649.5	677.7	710.5	767.9	814.8
22.5°	595.6	626.1	663.6	724.5	777.3
25°	542.8	571.0	613.2	681.2	741.0
27.5°	490.1	518.2	562.8	637.8	703.4
30°	435.0	464.3	511.2	594.4	665.9
32.5°	381.0	409.2	461.9	552.2	627.2
35°	325.9	354.1	411.5	506.5	592.1
37.5°	272.0	301.3	362.3	469.0	556.9
40°	215.7	247.4	316.5	430.3	519.4
42.5°	163.0	197.0	270.8	390.4	478.3
45°	117.2	146.6	231.0	347.0	431.4
47.5°	91.4	106.7	194.6	302.5	388.1
50°	79.7	82.1	159.4	261.4	343.5
52.5°	69.2	71.5	125.4	222.8	296.6
55°	59.8	62.1	96.1	182.9	246.2
57.5°	50.4	53.9	79.7	145.4	198.1
60°	42.2	46.9	71.5	111.4	152.4
62.5°	34.0	42.2	61.0	82.1	109.0
65°	28.1	39.9	51.6	57.4	68.0
67.5°	23.4	36.3	43.4	41.0	39.9
70°	19.9	32.8	36.3	32.8	34.0
72.5°	16.4	30.5	30.5	28.1	28.1
75°	14.1	27.0	25.8	24.6	24.6
77.5°	11.7	23.4	22.3	21.1	19.9
80°	9.4	18.8	18.8	17.6	16.4
82.5°	8.2	15.2	15.2	15.2	12.9
85°	5.9	12.9	14.1	12.9	10.6
87.5°	4.7	11.7	11.7	10.6	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)