

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: P1059215

Luminaire Tested: S123RDR-S340D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059215
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-S340D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

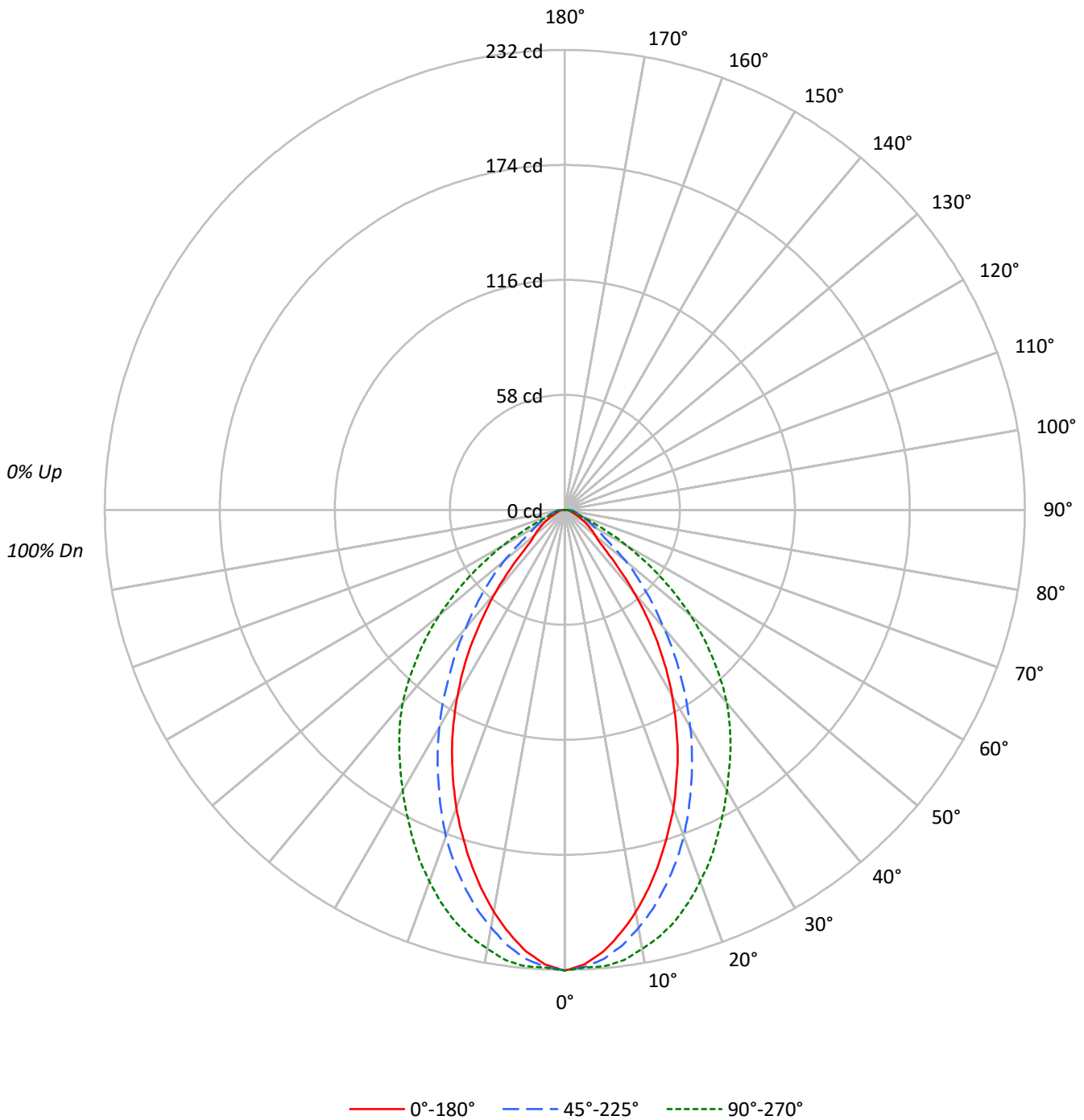
Lumens per Lamp: N/A
Luminaire Lumens: 311.3 lumens
Efficiency: N/A
Efficacy: 24.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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

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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	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°	2729	2729	2729
5°	2636	2679	2724
10°	2455	2553	2682
15°	2236	2388	2611
20°	2001	2192	2493
25°	1745	1956	2357
30°	1467	1717	2217
35°	1167	1454	2087
40°	832	1186	1950
45°	497	952	1747
50°	365	725	1513
55°	305	493	1202
60°	247	406	845
65°	197	350	453
70°	161	302	278
75°	154	290	263
80°	162	318	250
85°	229	458	323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1747 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	6.9
10°-20°	55.5	17.8
20°-30°	70.7	22.7
30°-40°	66.6	21.4
40°-50°	47.8	15.4
50°-60°	27.4	8.8
60°-70°	12.5	4.0
70°-80°	6.3	2.0
80°-90°	3.1	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°	147.6	47.4
0°-40°	214.1	68.8
0°-60°	289.3	93.0
0°-90°	311.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	311.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	232	232	232	232	232	
5°	224	228	227	229	231	21
15°	184	190	196	207	215	51
25°	135	141	151	167	182	62
35°	81	87	101	124	146	50
45°	30	36	57	84	105	25
55°	15	15	24	44	59	13
65°	7	10	13	14	16	7
75°	3	7	6	6	6	4
85°	2	3	3	3	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	232.4	232.4	232.4	232.4	232.4
2.5°	229.4	232.7	230.7	230.7	231.1
5°	223.6	228.0	227.3	229.0	231.1
7.5°	215.4	220.2	221.6	225.6	229.0
10°	205.9	211.4	214.1	220.5	224.9
12.5°	195.4	201.5	205.9	214.1	220.5
15°	183.9	190.3	196.4	207.0	214.8
17.5°	172.0	178.5	186.3	198.5	207.6
20°	160.1	166.6	175.4	188.3	199.5
22.5°	147.2	153.7	163.2	177.8	191.4
25°	134.7	140.8	151.0	167.3	181.9
27.5°	121.5	127.6	138.8	156.4	172.7
30°	108.2	114.3	126.6	145.6	163.5
32.5°	95.0	100.8	114.0	135.0	154.4
35°	81.4	87.2	101.4	124.5	145.6
37.5°	67.5	73.3	89.9	115.0	136.7
40°	54.3	60.7	77.4	105.5	127.2
42.5°	41.4	48.2	67.2	95.3	116.4
45°	29.9	36.3	57.3	84.5	105.2
47.5°	22.7	26.1	48.5	73.6	94.3
50°	20.0	20.4	39.7	63.8	82.8
52.5°	17.3	17.6	30.9	54.3	70.6
55°	14.9	15.3	24.1	44.4	58.7
57.5°	12.6	13.2	19.7	35.3	47.2
60°	10.5	11.9	17.3	26.8	36.0
62.5°	8.5	10.9	14.9	19.7	25.8
65°	7.1	9.8	12.6	13.9	16.3
67.5°	5.8	9.2	10.5	9.8	9.8
70°	4.7	8.1	8.8	8.1	8.1
72.5°	4.1	7.8	7.5	6.8	6.8
75°	3.4	6.8	6.4	5.8	5.8
77.5°	3.1	5.8	5.4	5.1	4.7
80°	2.4	4.7	4.7	4.4	3.7
82.5°	2.0	4.1	4.1	3.7	3.1
85°	1.7	3.4	3.4	3.1	2.4
87.5°	1.4	3.1	3.1	2.7	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)