

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: P1059224

Luminaire Tested: S123RDR-S340D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059224
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-S340D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

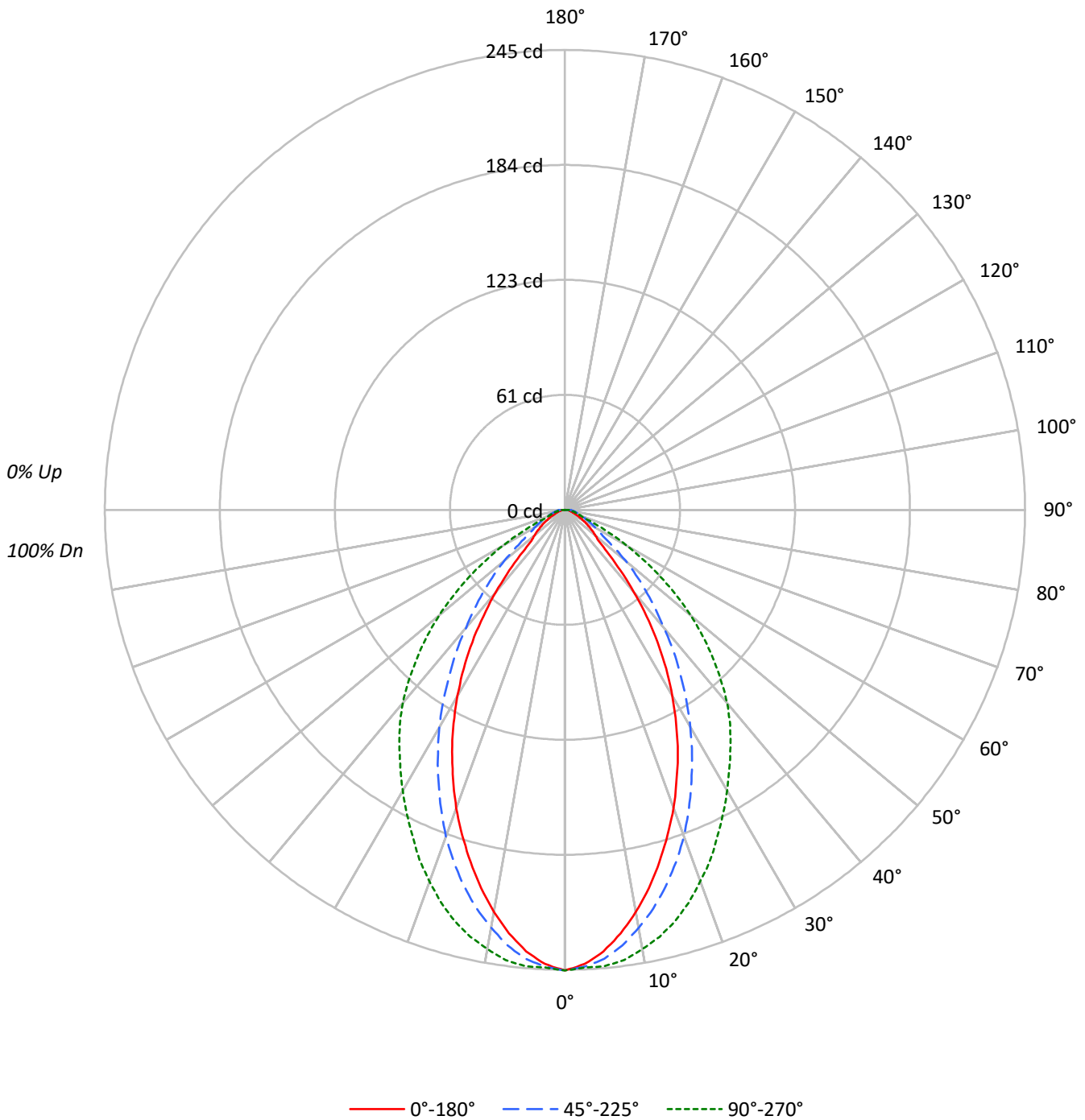
Lumens per Lamp: N/A
Luminaire Lumens: 328.7 lumens
Efficiency: N/A
Efficacy: 26.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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°	2882	2882	2882
5°	2783	2830	2876
10°	2593	2696	2833
15°	2361	2523	2757
20°	2113	2314	2633
25°	1842	2065	2488
30°	1550	1811	2342
35°	1233	1535	2203
40°	878	1252	2060
45°	523	1006	1845
50°	385	765	1597
55°	323	520	1269
60°	261	430	892
65°	208	370	478
70°	172	319	295
75°	163	309	277
80°	169	338	264
85°	243	485	337

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1845 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	6.9
10°-20°	58.6	17.8
20°-30°	74.7	22.7
30°-40°	70.3	21.4
40°-50°	50.5	15.4
50°-60°	29.0	8.8
60°-70°	13.2	4.0
70°-80°	6.7	2.0
80°-90°	3.2	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°	155.8	47.4
0°-40°	226.1	68.8
0°-60°	305.6	93.0
0°-90°	328.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	328.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	245	245	245	245	245	
5°	236	241	240	242	244	22
15°	194	201	208	219	227	54
25°	142	149	159	177	192	65
35°	86	92	107	132	154	53
45°	32	38	61	89	111	26
55°	16	16	25	47	62	14
65°	8	10	13	15	17	8
75°	4	7	7	6	6	4
85°	2	4	4	3	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	245.4	245.4	245.4	245.4	245.4
2.5°	242.2	245.8	243.6	243.6	244.0
5°	236.1	240.8	240.1	241.9	244.0
7.5°	227.5	232.5	234.0	238.3	241.9
10°	217.5	223.2	226.1	232.9	237.6
12.5°	206.4	212.8	217.5	226.1	232.9
15°	194.2	201.0	207.5	218.6	226.8
17.5°	181.7	188.5	196.7	209.6	219.3
20°	169.1	175.9	185.2	198.9	210.7
22.5°	155.5	162.3	172.3	187.8	202.1
25°	142.2	148.7	159.4	176.6	192.0
27.5°	128.3	134.7	146.5	165.2	182.4
30°	114.3	120.7	133.6	153.7	172.7
32.5°	100.3	106.4	120.4	142.6	163.0
35°	86.0	92.1	107.1	131.5	153.7
37.5°	71.3	77.4	95.0	121.5	144.4
40°	57.3	64.1	81.7	111.4	134.4
42.5°	43.7	50.9	70.9	100.7	122.9
45°	31.5	38.3	60.6	89.2	111.1
47.5°	24.0	27.6	51.2	77.8	99.6
50°	21.1	21.5	41.9	67.4	87.4
52.5°	18.3	18.6	32.6	57.3	74.5
55°	15.8	16.1	25.4	46.9	62.0
57.5°	13.3	14.0	20.8	37.3	49.8
60°	11.1	12.5	18.3	28.3	38.0
62.5°	9.0	11.5	15.8	20.8	27.2
65°	7.5	10.4	13.3	14.7	17.2
67.5°	6.1	9.7	11.1	10.4	10.4
70°	5.0	8.6	9.3	8.6	8.6
72.5°	4.3	8.2	7.9	7.2	7.2
75°	3.6	7.2	6.8	6.1	6.1
77.5°	3.2	6.1	5.7	5.4	5.0
80°	2.5	5.0	5.0	4.7	3.9
82.5°	2.1	4.3	4.3	3.9	3.2
85°	1.8	3.6	3.6	3.2	2.5
87.5°	1.4	3.2	3.2	2.9	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)