

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: P1060439

Luminaire Tested: S124RDR-S350D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S350D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 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

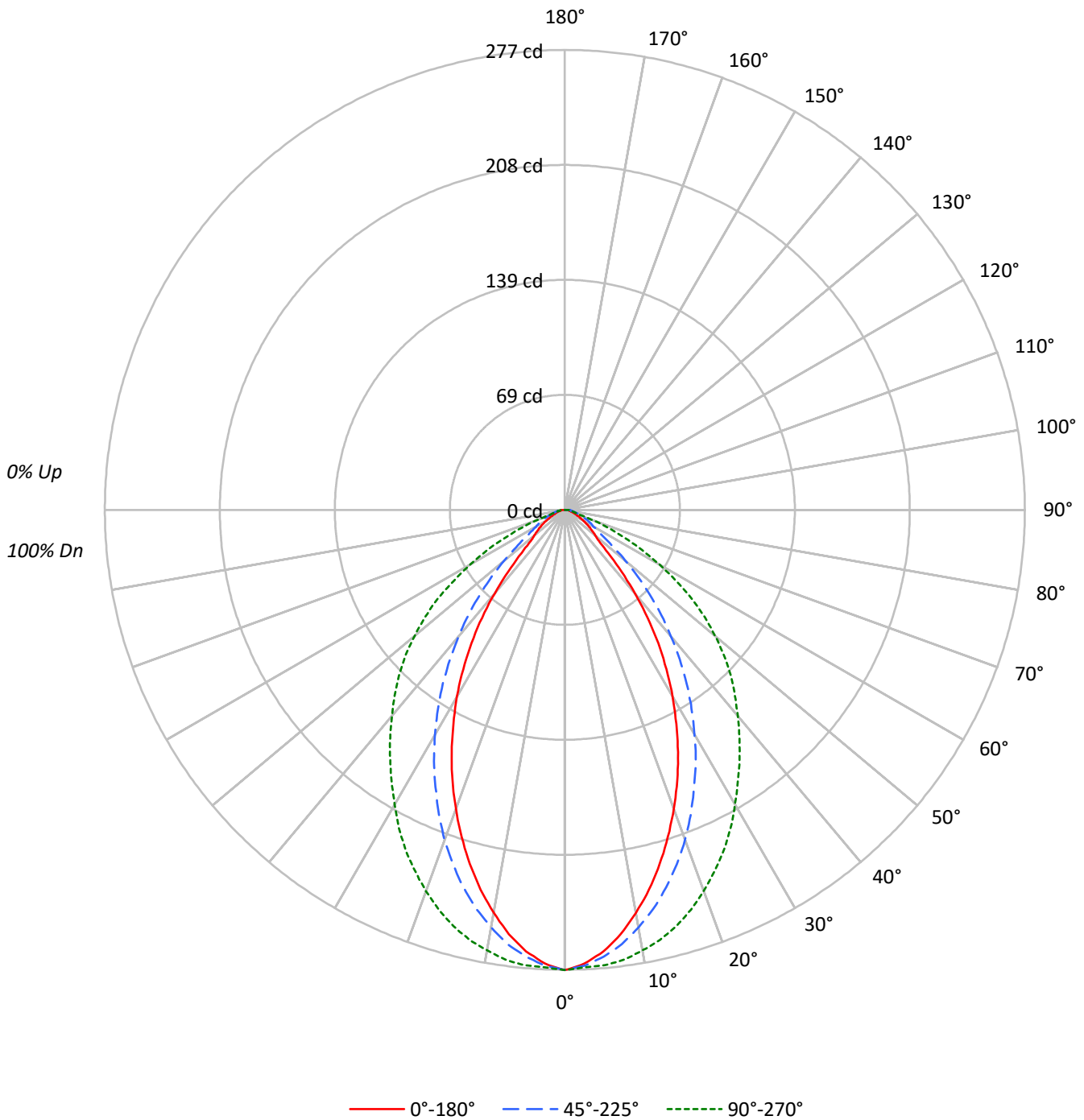
Lumens per Lamp: N/A
Luminaire Lumens: 389.7 lumens
Efficiency: N/A
Efficacy: 31.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2387	2387	2387
5°	2307	2335	2381
10°	2155	2232	2356
15°	1968	2100	2313
20°	1758	1939	2240
25°	1532	1749	2151
30°	1291	1553	2037
35°	1030	1346	1928
40°	741	1117	1820
45°	447	880	1722
50°	322	638	1582
55°	270	429	1402
60°	219	339	1130
65°	173	310	811
70°	151	257	436
75°	140	236	210
80°	139	243	193
85°	207	346	247

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	6.5
10°-20°	66.7	17.1
20°-30°	86.5	22.2
30°-40°	83.2	21.3
40°-50°	61.7	15.8
50°-60°	37.8	9.7
60°-70°	18.4	4.7
70°-80°	7.0	1.8
80°-90°	3.1	0.8
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°	178.6	45.8
0°-40°	261.8	67.2
0°-60°	361.3	92.7
0°-90°	389.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	389.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	277	277	277	277	277	
5°	267	271	270	273	275	25
15°	221	227	236	250	260	62
25°	161	169	184	208	226	74
35°	98	107	128	158	183	61
45°	37	46	72	110	141	30
55°	18	19	29	64	93	16
65°	8	9	15	24	40	9
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°	277.2	277.2	277.2	277.2	277.2
2.5°	273.6	276.8	274.7	275.4	275.8
5°	266.9	270.8	270.1	272.6	275.4
7.5°	257.8	262.4	263.8	268.7	273.3
10°	246.5	252.1	255.3	263.4	269.4
12.5°	234.2	240.1	246.1	257.1	265.2
15°	220.8	227.1	235.6	249.7	259.5
17.5°	206.6	213.7	223.9	240.9	252.5
20°	191.8	199.2	211.6	230.3	244.4
22.5°	176.7	184.4	198.2	219.0	235.6
25°	161.2	169.3	184.1	207.7	226.4
27.5°	145.3	153.8	170.7	195.7	216.2
30°	129.8	137.9	156.2	183.4	204.9
32.5°	113.9	122.4	142.1	170.7	194.0
35°	98.0	106.9	128.0	158.3	183.4
37.5°	81.8	91.3	113.6	146.3	172.8
40°	65.9	75.1	99.4	134.0	161.9
42.5°	50.4	60.3	86.0	121.7	151.6
45°	36.7	45.8	72.3	110.4	141.4
47.5°	27.5	33.1	59.6	99.8	130.1
50°	24.0	25.0	47.6	88.2	118.1
52.5°	20.8	21.5	37.0	75.5	106.1
55°	18.0	18.7	28.6	64.5	93.4
57.5°	15.2	15.9	22.9	54.0	79.0
60°	12.7	13.4	19.7	43.0	65.6
62.5°	10.6	10.9	17.6	32.8	52.5
65°	8.5	9.2	15.2	24.0	39.8
67.5°	7.1	7.8	12.3	16.6	27.9
70°	6.0	7.8	10.2	11.6	17.3
72.5°	4.9	7.1	8.5	8.1	8.1
75°	4.2	6.7	7.1	6.3	6.3
77.5°	3.5	6.0	5.6	5.3	4.9
80°	2.8	4.9	4.9	4.2	3.9
82.5°	2.5	3.9	3.9	3.9	3.2
85°	2.1	3.5	3.5	3.2	2.5
87.5°	1.4	2.8	3.2	2.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)