

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: P1060430

Luminaire Tested: S124RDR-S350D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060430
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-S350D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

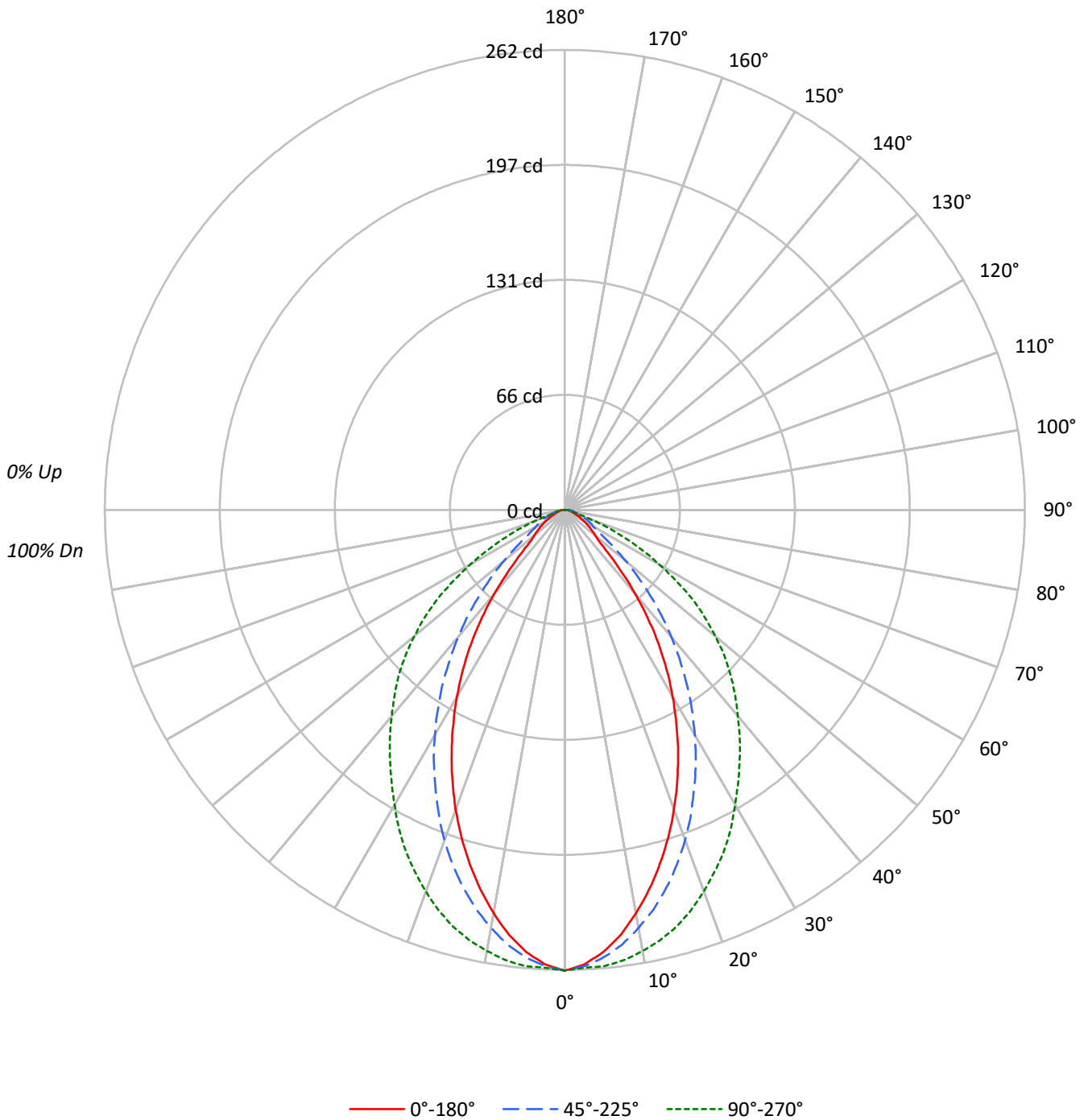
Lumens per Lamp: N/A
Luminaire Lumens: 369.1 lumens
Efficiency: N/A
Efficacy: 29.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	49	45	55	49	45	54	48	45	43
9	65	54	46	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°	2260	2260	2260
5°	2185	2211	2254
10°	2041	2114	2231
15°	1863	1989	2191
20°	1665	1836	2120
25°	1450	1656	2037
30°	1222	1471	1929
35°	976	1274	1825
40°	701	1059	1723
45°	423	834	1631
50°	304	604	1499
55°	255	405	1329
60°	207	322	1070
65°	163	293	768
70°	144	244	413
75°	133	223	200
80°	134	233	183
85°	198	326	227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1631 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	6.5
10°-20°	63.1	17.1
20°-30°	81.9	22.2
30°-40°	78.7	21.3
40°-50°	58.4	15.8
50°-60°	35.8	9.7
60°-70°	17.4	4.7
70°-80°	6.6	1.8
80°-90°	3.0	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°	169.1	45.8
0°-40°	247.9	67.2
0°-60°	342.1	92.7
0°-90°	369.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	369.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	262	262	262	262	262	
5°	253	256	256	258	261	24
15°	209	215	223	236	246	58
25°	153	160	174	197	214	70
35°	93	101	121	150	174	57
45°	35	43	68	104	134	29
55°	17	18	27	61	88	15
65°	8	9	14	23	38	8
75°	4	6	7	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°	262.5	262.5	262.5	262.5	262.5
2.5°	259.1	262.1	260.1	260.8	261.1
5°	252.8	256.5	255.8	258.1	260.8
7.5°	244.1	248.4	249.8	254.5	258.8
10°	233.4	238.8	241.8	249.4	255.1
12.5°	221.7	227.4	233.1	243.4	251.1
15°	209.0	215.0	223.1	236.4	245.8
17.5°	195.7	202.4	212.0	228.1	239.1
20°	181.7	188.7	200.4	218.1	231.4
22.5°	167.3	174.6	187.7	207.4	223.1
25°	152.6	160.3	174.3	196.7	214.4
27.5°	137.6	145.6	161.6	185.3	204.7
30°	122.9	130.6	147.9	173.6	194.0
32.5°	107.9	115.9	134.6	161.6	183.7
35°	92.8	101.2	121.2	149.9	173.6
37.5°	77.5	86.5	107.5	138.6	163.6
40°	62.4	71.1	94.2	126.9	153.3
42.5°	47.8	57.1	81.5	115.2	143.6
45°	34.7	43.4	68.5	104.5	133.9
47.5°	26.0	31.4	56.4	94.5	123.2
50°	22.7	23.7	45.1	83.5	111.9
52.5°	19.7	20.4	35.1	71.5	100.5
55°	17.0	17.7	27.0	61.1	88.5
57.5°	14.4	15.0	21.7	51.1	74.8
60°	12.0	12.7	18.7	40.7	62.1
62.5°	10.0	10.4	16.7	31.1	49.8
65°	8.0	8.7	14.4	22.7	37.7
67.5°	6.7	7.3	11.7	15.7	26.4
70°	5.7	7.3	9.7	11.0	16.4
72.5°	4.7	6.7	8.0	7.7	7.7
75°	4.0	6.3	6.7	6.0	6.0
77.5°	3.3	5.7	5.3	5.0	4.7
80°	2.7	4.7	4.7	4.0	3.7
82.5°	2.3	3.7	3.7	3.7	3.0
85°	2.0	3.3	3.3	3.0	2.3
87.5°	1.3	2.7	3.0	2.7	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)