

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S124RDRP-S350D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S124RDRP-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

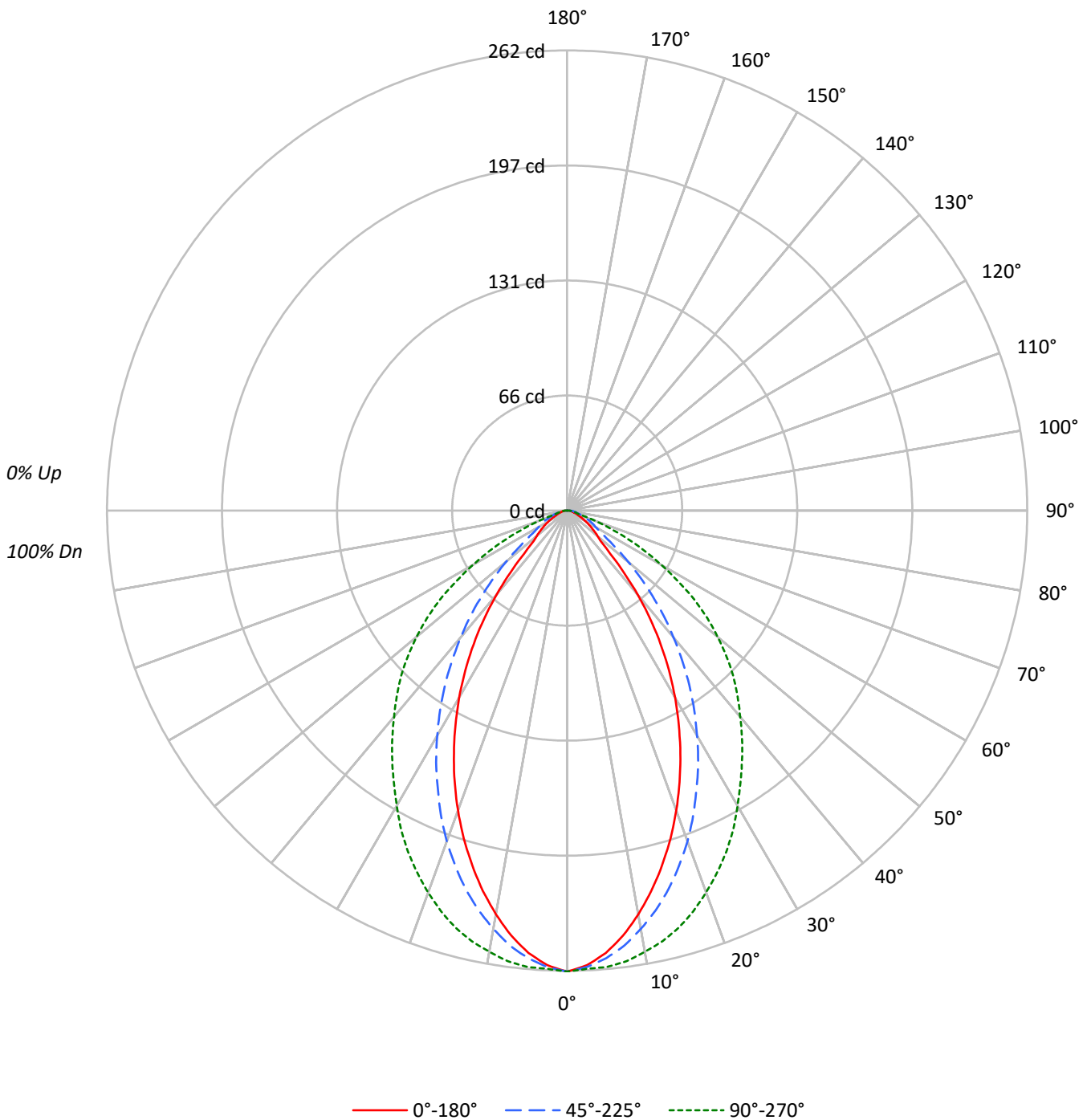
Lumens per Lamp: N/A
Luminaire Lumens: 369.1 lumens
Efficiency: N/A
Efficacy: 29.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	2.64	3.98	3.00	4.29	4.61	11.75	13.08	12.11	13.40	13.71
	3H	3.68	4.87	4.06	5.20	5.56	12.25	13.44	12.63	13.77	14.13
	4H	4.20	5.30	4.60	5.65	6.04	12.26	13.37	12.66	13.72	14.10
	6H	4.65	5.67	5.06	6.04	6.43	12.26	13.28	12.68	13.65	14.04
	8H	4.84	5.80	5.27	6.19	6.60	12.26	13.22	12.69	13.61	14.02
	12H	5.05	5.97	5.48	6.35	6.78	12.26	13.18	12.69	13.56	13.99
4H	2H	3.74	4.85	4.14	5.20	5.58	11.64	12.74	12.04	13.09	13.48
	3H	5.01	5.91	5.42	6.32	6.72	12.21	13.12	12.63	13.52	13.93
	4H	5.71	6.52	6.14	6.94	7.38	12.26	13.07	12.70	13.49	13.93
	6H	6.34	7.04	6.81	7.49	7.96	12.31	13.01	12.78	13.46	13.93
	8H	6.59	7.24	7.06	7.69	8.16	12.33	12.98	12.80	13.43	13.90
	12H	6.86	7.44	7.35	7.92	8.40	12.36	12.94	12.85	13.42	13.90
8H	4H	6.14	6.79	6.60	7.24	7.71	12.21	12.86	12.68	13.31	13.78
	6H	7.02	7.56	7.52	8.05	8.53	12.30	12.84	12.81	13.34	13.82
	8H	7.43	7.91	7.95	8.42	8.92	12.37	12.85	12.89	13.36	13.85
	12H	7.90	8.33	8.41	8.82	9.39	12.46	12.89	12.98	13.38	13.95
12H	4H	6.18	6.76	6.67	7.24	7.71	12.18	12.76	12.67	13.24	13.72
	6H	7.13	7.62	7.66	8.13	8.62	12.28	12.76	12.80	13.28	13.77
	8H	7.65	8.08	8.17	8.57	9.14	12.39	12.82	12.90	13.31	13.88