

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: P1060429

Luminaire Tested: S124RDRP-S350D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)
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-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

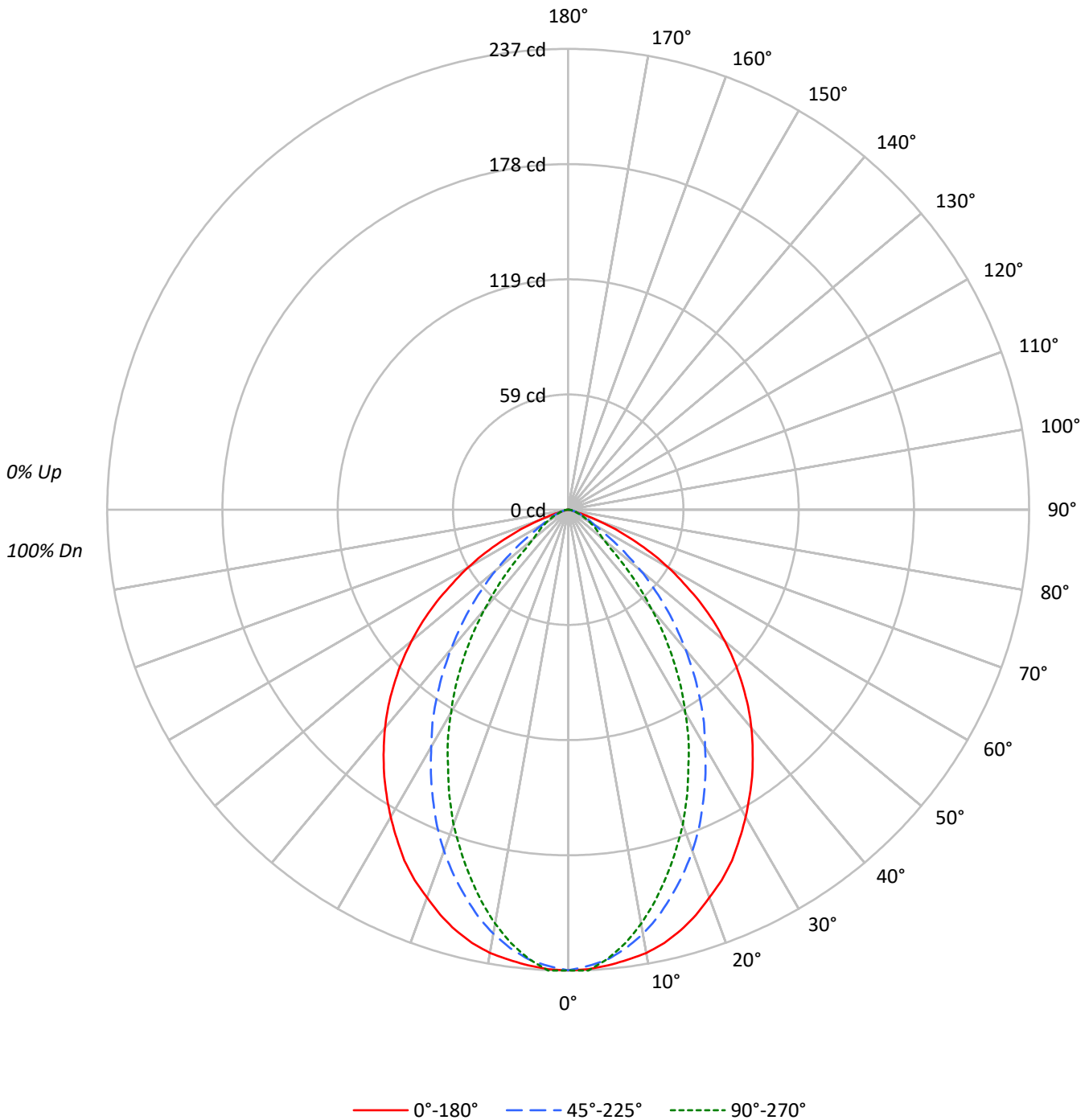
Lumens per Lamp: N/A
Luminaire Lumens: 349.2 lumens
Efficiency: N/A
Efficacy: 27.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): 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

TEST NUMBER: P1060429

CATALOG NUMBER: S124RDRP-S350D930-X4F0-XX-UDD-SVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1060429

CATALOG NUMBER: S124RDRP-S350D930-X4F0-XX-UDD-SVL-B

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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	60	71	65	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	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2040	2040	2040
5°	2033	2007	2005
10°	2024	1937	1890
15°	1996	1832	1740
20°	1945	1712	1578
25°	1893	1563	1388
30°	1815	1400	1197
35°	1736	1238	989
40°	1647	1053	750
45°	1539	861	504
50°	1408	652	313
55°	1237	431	266
60°	1023	264	219
65°	742	204	177
70°	403	151	133
75°	90	110	123
80°	64	84	99
85°	69	69	99

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1539 cd/sqm



TEST NUMBER: P1060429

CATALOG NUMBER: S124RDRP-S350D930-X4F0-XX-UDD-SVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.9	6.3
10°-20°	58.3	16.7
20°-30°	77.2	22.1
30°-40°	76.6	21.9
40°-50°	59.0	16.9
50°-60°	35.1	10.1
60°-70°	16.0	4.6
70°-80°	4.1	1.2
80°-90°	0.9	0.3
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°	157.4	45.1
0°-40°	234.1	67.0
0°-60°	328.2	94.0
0°-90°	349.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	349.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	237	237	237	237	237	
5°	235	236	232	232	232	22
15°	224	218	206	198	195	63
25°	199	185	164	151	146	91
35°	165	144	118	100	94	103
45°	126	102	71	49	41	97
55°	82	59	29	18	18	73
65°	36	22	10	9	9	37
75°	3	3	3	4	4	6
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P1060429

CATALOG NUMBER: S124RDRP-S350D930-X4F0-XX-UDD-SVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	236.9	236.9	236.9	236.9	236.9
2.5°	236.5	236.9	234.9	236.5	237.2
5°	235.2	235.5	232.2	232.2	231.9
7.5°	233.5	232.9	227.5	225.5	224.9
10°	231.5	229.2	221.5	217.5	216.2
12.5°	228.2	224.5	214.2	208.5	206.2
15°	223.9	218.2	205.5	198.5	195.2
17.5°	218.5	211.5	196.5	187.5	183.8
20°	212.2	202.8	186.8	175.5	172.2
22.5°	206.2	194.5	176.2	163.1	159.5
25°	199.2	184.8	164.5	150.8	146.1
27.5°	190.8	175.5	152.8	138.8	134.1
30°	182.5	165.5	140.8	126.1	120.4
32.5°	173.8	155.1	129.8	113.1	107.8
35°	165.1	144.5	117.8	99.8	94.1
37.5°	155.8	133.8	105.8	87.1	80.7
40°	146.5	123.4	93.7	74.7	66.7
42.5°	136.8	112.8	82.1	62.1	54.0
45°	126.4	101.8	70.7	49.4	41.4
47.5°	116.1	91.4	59.4	37.0	29.7
50°	105.1	80.4	48.7	27.0	23.4
52.5°	94.1	69.7	38.0	21.0	20.0
55°	82.4	58.7	28.7	18.0	17.7
57.5°	70.4	48.7	20.7	15.7	15.0
60°	59.4	39.4	15.3	13.3	12.7
62.5°	48.0	29.7	12.7	11.0	10.3
65°	36.4	21.7	10.0	8.7	8.7
67.5°	26.4	14.7	8.0	7.0	6.7
70°	16.0	9.0	6.0	5.7	5.3
72.5°	8.0	5.3	4.7	4.3	4.3
75°	2.7	3.3	3.3	3.7	3.7
77.5°	2.0	2.3	2.3	2.7	2.7
80°	1.3	1.7	1.7	2.0	2.0
82.5°	1.0	1.0	1.3	1.3	1.7
85°	0.7	0.7	0.7	1.0	1.0
87.5°	0.3	0.3	0.3	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1060429

CATALOG NUMBER: S124RDRP-S350D930-X4F0-XX-UDD-SVL-B

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	11.59	12.93	11.96	13.24	13.56	3.15	4.48	3.51	4.80	5.11
	3H	12.11	13.29	12.48	13.62	13.98	3.97	5.15	4.35	5.48	5.84
	4H	12.07	13.17	12.47	13.52	13.90	4.25	5.35	4.65	5.70	6.08
	6H	12.01	13.01	12.42	13.38	13.78	4.42	5.43	4.84	5.80	6.20
	8H	11.97	12.92	12.40	13.31	13.72	4.49	5.45	4.92	5.84	6.24
	12H	11.93	12.84	12.36	13.22	13.65	4.54	5.45	4.97	5.83	6.26
4H	2H	11.44	12.54	11.84	12.89	13.27	3.59	4.69	3.99	5.04	5.42
	3H	11.99	12.89	12.40	13.29	13.69	4.55	5.45	4.97	5.85	6.25
	4H	11.96	12.76	12.39	13.18	13.62	4.92	5.72	5.36	6.14	6.58
	6H	11.91	12.59	12.37	13.04	13.51	5.18	5.86	5.64	6.31	6.77
	8H	11.86	12.50	12.33	12.95	13.42	5.27	5.90	5.73	6.35	6.82
	12H	11.82	12.39	12.31	12.87	13.34	5.34	5.91	5.83	6.39	6.86
8H	4H	11.85	12.49	12.32	12.94	13.41	5.01	5.65	5.48	6.09	6.57
	6H	11.79	12.31	12.29	12.81	13.29	5.32	5.84	5.82	6.34	6.82
	8H	11.74	12.21	12.26	12.72	13.22	5.45	5.92	5.97	6.44	6.93
	12H	11.71	12.12	12.22	12.62	13.19	5.59	6.00	6.10	6.50	7.07
12H	4H	11.81	12.37	12.29	12.85	13.33	4.98	5.55	5.47	6.03	6.50
	6H	11.73	12.20	12.25	12.72	13.21	5.30	5.77	5.82	6.29	6.78
	8H	11.71	12.12	12.22	12.61	13.19	5.47	5.88	5.98	6.38	6.95