

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: P1059214

Luminaire Tested: S123RDRP-S340D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-29)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S340D930-X4F0-XX-UDD-SVL-B
Description: DEFINE 3 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

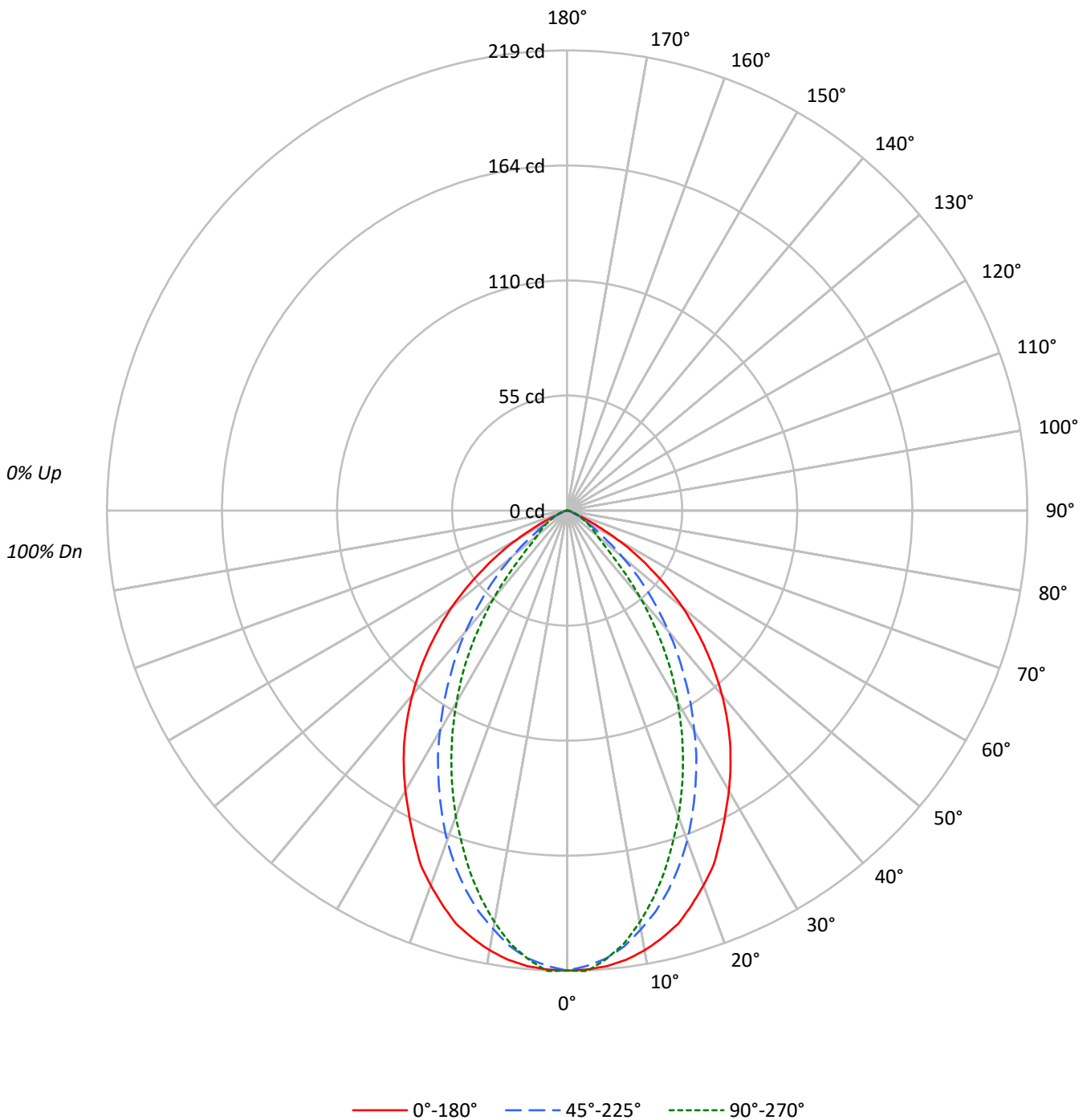
Lumens per Lamp: N/A
Luminaire Lumens: 282.7 lumens
Efficiency: N/A
Efficacy: 22.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 0.85 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (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: P1059214

CATALOG NUMBER: S123RDRP-S340D930-X4F0-XX-UDD-SVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1059214

CATALOG NUMBER: S123RDRP-S340D930-X4F0-XX-UDD-SVL-B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	48
9	67	56	49	45	66	56	49	44	55	48	44	54	48	44	53	48	44
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2570	2570	2570
5°	2565	2521	2525
10°	2534	2412	2372
15°	2476	2270	2168
20°	2372	2088	1936
25°	2235	1871	1691
30°	2087	1641	1425
35°	1938	1399	1147
40°	1757	1153	831
45°	1548	895	502
50°	1313	625	340
55°	999	375	285
60°	653	240	223
65°	272	178	178
70°	93	127	141
75°	77	91	109
80°	47	68	95
85°	40	40	94

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1548 cd/sqm



TEST NUMBER: P1059214

CATALOG NUMBER: S123RDRP-S340D930-X4F0-XX-UDD-SVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.2	7.2
10°-20°	52.9	18.7
20°-30°	67.9	24.0
30°-40°	63.7	22.5
40°-50°	44.4	15.7
50°-60°	23.0	8.1
60°-70°	7.8	2.8
70°-80°	2.3	0.8
80°-90°	0.5	0.2
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°	141.0	49.9
0°-40°	204.7	72.4
0°-60°	272.1	96.3
0°-90°	282.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	282.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	219	219	219	219	219	
5°	218	217	214	215	214	21
15°	204	199	187	181	178	57
25°	172	162	144	135	130	79
35°	135	119	98	85	80	84
45°	93	76	54	37	30	72
55°	49	37	18	14	14	44
65°	10	8	6	6	6	12
75°	2	2	2	2	2	2
85°	0	0	0	0	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1059214

CATALOG NUMBER: S123RDRP-S340D930-X4F0-XX-UDD-SVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	218.9	218.9	218.9	218.9	218.9
2.5°	218.6	218.9	216.9	218.9	219.3
5°	217.6	217.3	213.9	214.9	214.2
7.5°	215.6	214.5	209.1	207.8	207.8
10°	212.5	210.5	202.3	200.0	198.9
12.5°	208.4	205.7	195.2	190.8	189.1
15°	203.7	198.6	186.7	180.6	178.3
17.5°	196.9	190.1	177.3	170.1	166.4
20°	189.8	181.3	167.1	158.6	154.9
22.5°	182.3	172.2	155.9	146.8	142.7
25°	172.5	161.7	144.4	134.6	130.5
27.5°	163.0	151.5	133.2	122.0	117.9
30°	153.9	140.3	121.0	110.2	105.1
32.5°	144.7	129.5	109.5	97.6	92.9
35°	135.2	118.6	97.6	85.1	80.0
37.5°	125.1	108.1	86.4	72.9	66.8
40°	114.6	96.9	75.2	60.0	54.2
42.5°	104.0	86.8	64.1	48.5	41.7
45°	93.2	76.3	53.9	37.3	30.2
47.5°	82.4	65.8	44.1	27.1	22.7
50°	71.9	55.9	34.2	20.0	18.6
52.5°	60.3	46.4	25.8	16.6	16.3
55°	48.8	36.6	18.3	14.2	13.9
57.5°	38.6	28.5	13.2	11.9	11.5
60°	27.8	20.3	10.2	9.8	9.5
62.5°	18.3	13.9	8.1	7.8	7.8
65°	9.8	8.5	6.4	6.1	6.4
67.5°	4.1	4.7	4.7	5.1	5.1
70°	2.7	3.1	3.7	4.1	4.1
72.5°	2.0	2.4	2.7	3.1	3.1
75°	1.7	1.7	2.0	2.4	2.4
77.5°	1.0	1.4	1.4	1.7	2.0
80°	0.7	1.0	1.0	1.4	1.4
82.5°	0.3	0.7	0.7	1.0	1.0
85°	0.3	0.3	0.3	0.3	0.7
87.5°	0.0	0.0	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1059214
 CATALOG NUMBER: S123RDRP-S340D930-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	9.62	10.88	9.98	11.19	11.50	3.13	4.39	3.50	4.70	5.02
	3H	9.57	10.68	9.95	11.01	11.37	3.91	5.02	4.29	5.35	5.72
	4H	9.52	10.55	9.92	10.90	11.28	4.12	5.15	4.52	5.50	5.89
	6H	9.45	10.39	9.86	10.76	11.16	4.26	5.21	4.68	5.58	5.97
	8H	9.40	10.30	9.84	10.69	11.09	4.30	5.19	4.73	5.58	5.99
	12H	9.36	10.21	9.79	10.59	11.03	4.32	5.17	4.75	5.55	5.98
4H	2H	9.46	10.49	9.87	10.84	11.23	3.38	4.41	3.79	4.76	5.15
	3H	9.45	10.28	9.86	10.69	11.09	4.30	5.13	4.71	5.54	5.94
	4H	9.40	10.14	9.83	10.56	11.00	4.58	5.32	5.01	5.74	6.18
	6H	9.34	9.98	9.80	10.42	10.89	4.80	5.43	5.26	5.88	6.35
	8H	9.29	9.88	9.76	10.33	10.80	4.86	5.45	5.33	5.90	6.37
	12H	9.24	9.76	9.73	10.25	10.72	4.89	5.42	5.38	5.90	6.38
8H	4H	9.28	9.88	9.75	10.33	10.80	4.56	5.16	5.03	5.60	6.08
	6H	9.22	9.71	9.73	10.20	10.69	4.83	5.32	5.34	5.82	6.30
	8H	9.17	9.61	9.69	10.12	10.62	4.94	5.37	5.46	5.89	6.38
	12H	9.13	9.52	9.65	10.01	10.59	5.01	5.39	5.52	5.89	6.46
12H	4H	9.24	9.76	9.73	10.25	10.72	4.52	5.05	5.01	5.53	6.01
	6H	9.16	9.60	9.69	10.12	10.61	4.80	5.23	5.32	5.75	6.24
	8H	9.13	9.52	9.65	10.01	10.59	4.93	5.32	5.45	5.81	6.39