

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: P1059215

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
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-S
Description: DEFINE 3 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

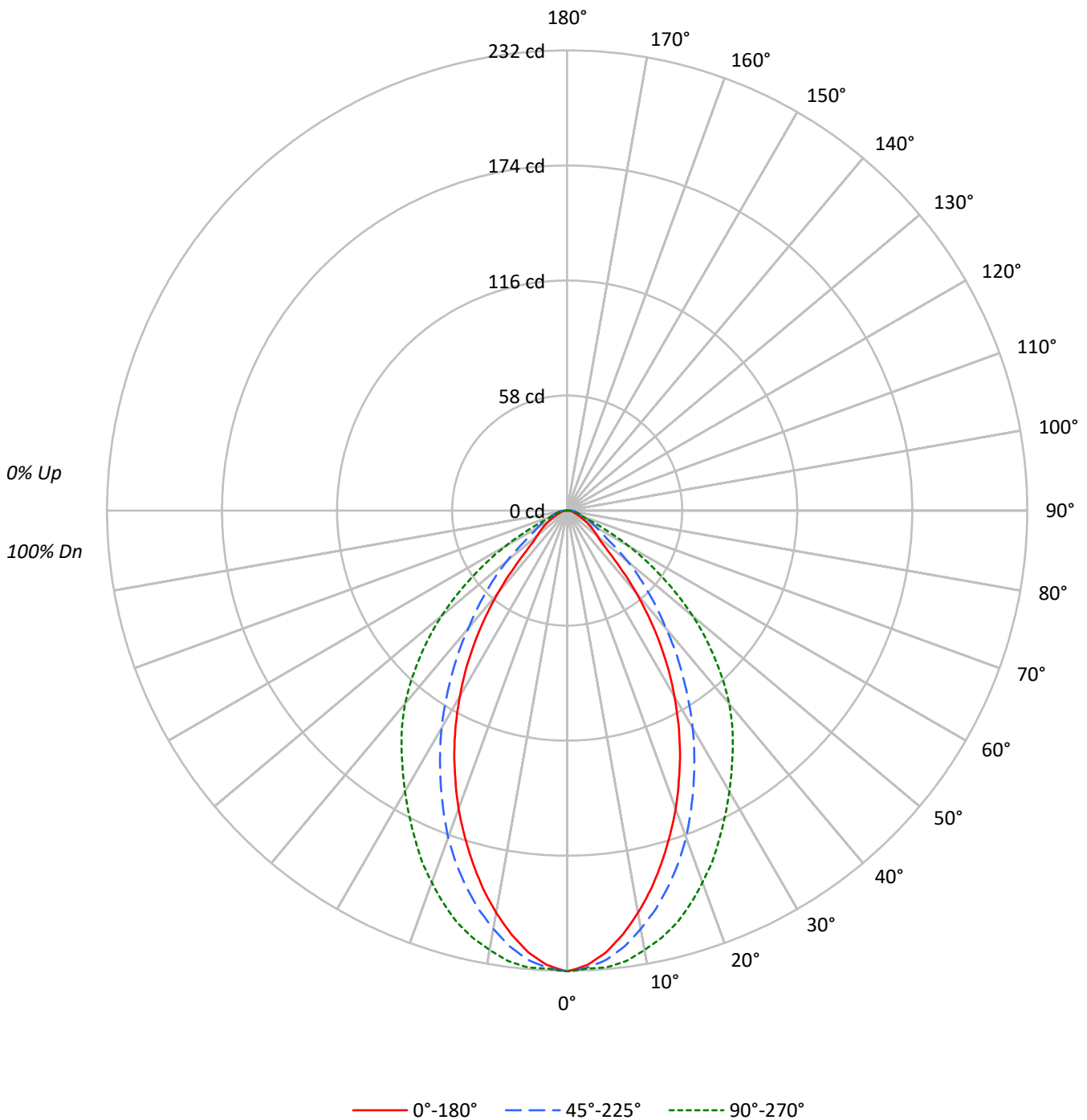
Lumens per Lamp: N/A
Luminaire Lumens: 311.3 lumens
Efficiency: N/A
Efficacy: 24.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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

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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	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2729	2729	2729
5°	2636	2679	2724
10°	2455	2553	2682
15°	2236	2388	2611
20°	2001	2192	2493
25°	1745	1956	2357
30°	1467	1717	2217
35°	1167	1454	2087
40°	832	1186	1950
45°	497	952	1747
50°	365	725	1513
55°	305	493	1202
60°	247	406	845
65°	197	350	453
70°	161	302	278
75°	154	290	263
80°	162	318	250
85°	229	458	323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1747 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	6.9
10°-20°	55.5	17.8
20°-30°	70.7	22.7
30°-40°	66.6	21.4
40°-50°	47.8	15.4
50°-60°	27.4	8.8
60°-70°	12.5	4.0
70°-80°	6.3	2.0
80°-90°	3.1	1.0
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°	147.6	47.4
0°-40°	214.1	68.8
0°-60°	289.3	93.0
0°-90°	311.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	311.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	232	232	232	232	232	
5°	224	228	227	229	231	21
15°	184	190	196	207	215	51
25°	135	141	151	167	182	62
35°	81	87	101	124	146	50
45°	30	36	57	84	105	25
55°	15	15	24	44	59	13
65°	7	10	13	14	16	7
75°	3	7	6	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°	232.4	232.4	232.4	232.4	232.4
2.5°	229.4	232.7	230.7	230.7	231.1
5°	223.6	228.0	227.3	229.0	231.1
7.5°	215.4	220.2	221.6	225.6	229.0
10°	205.9	211.4	214.1	220.5	224.9
12.5°	195.4	201.5	205.9	214.1	220.5
15°	183.9	190.3	196.4	207.0	214.8
17.5°	172.0	178.5	186.3	198.5	207.6
20°	160.1	166.6	175.4	188.3	199.5
22.5°	147.2	153.7	163.2	177.8	191.4
25°	134.7	140.8	151.0	167.3	181.9
27.5°	121.5	127.6	138.8	156.4	172.7
30°	108.2	114.3	126.6	145.6	163.5
32.5°	95.0	100.8	114.0	135.0	154.4
35°	81.4	87.2	101.4	124.5	145.6
37.5°	67.5	73.3	89.9	115.0	136.7
40°	54.3	60.7	77.4	105.5	127.2
42.5°	41.4	48.2	67.2	95.3	116.4
45°	29.9	36.3	57.3	84.5	105.2
47.5°	22.7	26.1	48.5	73.6	94.3
50°	20.0	20.4	39.7	63.8	82.8
52.5°	17.3	17.6	30.9	54.3	70.6
55°	14.9	15.3	24.1	44.4	58.7
57.5°	12.6	13.2	19.7	35.3	47.2
60°	10.5	11.9	17.3	26.8	36.0
62.5°	8.5	10.9	14.9	19.7	25.8
65°	7.1	9.8	12.6	13.9	16.3
67.5°	5.8	9.2	10.5	9.8	9.8
70°	4.7	8.1	8.8	8.1	8.1
72.5°	4.1	7.8	7.5	6.8	6.8
75°	3.4	6.8	6.4	5.8	5.8
77.5°	3.1	5.8	5.4	5.1	4.7
80°	2.4	4.7	4.7	4.4	3.7
82.5°	2.0	4.1	4.1	3.7	3.1
85°	1.7	3.4	3.4	3.1	2.4
87.5°	1.4	3.1	3.1	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	3.46	4.78	3.83	5.10	5.41	10.70	12.02	11.06	12.33	12.64
	3H	4.87	6.04	5.25	6.37	6.73	10.93	12.10	11.31	12.43	12.80
	4H	5.43	6.52	5.84	6.87	7.26	11.04	12.13	11.44	12.48	12.86
	6H	5.90	6.90	6.32	7.27	7.67	11.14	12.15	11.56	12.52	12.91
	8H	6.08	7.03	6.51	7.42	7.83	11.19	12.14	11.62	12.53	12.94
	12H	6.27	7.18	6.71	7.56	7.99	11.25	12.15	11.68	12.54	12.97
4H	2H	4.55	5.64	4.95	5.99	6.37	10.66	11.75	11.06	12.10	12.48
	3H	6.23	7.13	6.65	7.53	7.93	11.03	11.92	11.44	12.32	12.73
	4H	7.07	7.87	7.51	8.29	8.73	11.21	12.01	11.65	12.43	12.87
	6H	7.73	8.43	8.20	8.87	9.34	11.43	12.12	11.89	12.57	13.03
	8H	7.99	8.63	8.46	9.08	9.55	11.53	12.18	12.00	12.62	13.10
	12H	8.24	8.81	8.73	9.30	9.77	11.65	12.22	12.14	12.71	13.18
8H	4H	7.50	8.15	7.97	8.60	9.07	11.25	11.90	11.72	12.35	12.82
	6H	8.45	8.98	8.96	9.48	9.96	11.58	12.11	12.09	12.61	13.09
	8H	8.92	9.40	9.44	9.91	10.40	11.77	12.25	12.29	12.77	13.26
	12H	9.40	9.82	9.91	10.32	10.89	12.01	12.43	12.53	12.93	13.50
12H	4H	7.56	8.13	8.05	8.62	9.09	11.25	11.82	11.73	12.30	12.78
	6H	8.60	9.08	9.12	9.59	10.09	11.61	12.09	12.13	12.60	13.09
	8H	9.20	9.62	9.71	10.11	10.69	11.87	12.29	12.38	12.79	13.36