

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: P1059224

Luminaire Tested: S123RDRP-S340D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059224
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-S340D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

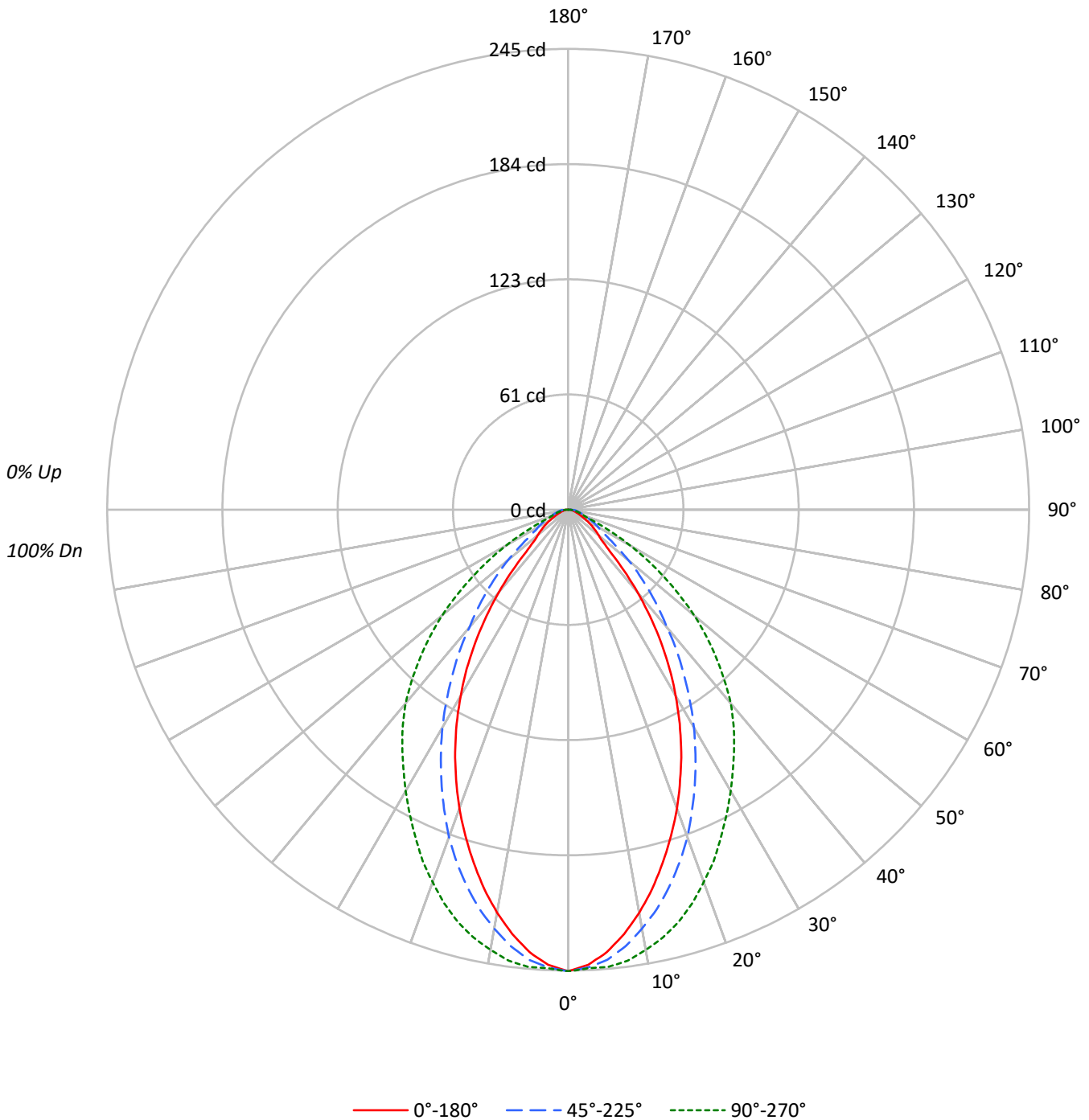
Lumens per Lamp: N/A
Luminaire Lumens: 328.7 lumens
Efficiency: N/A
Efficacy: 26.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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
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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49
8	70	58	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2882	2882	2882
5°	2783	2830	2876
10°	2593	2696	2833
15°	2361	2523	2757
20°	2113	2314	2633
25°	1842	2065	2488
30°	1550	1811	2342
35°	1233	1535	2203
40°	878	1252	2060
45°	523	1006	1845
50°	385	765	1597
55°	323	520	1269
60°	261	430	892
65°	208	370	478
70°	172	319	295
75°	163	309	277
80°	169	338	264
85°	243	485	337

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1845 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	6.9
10°-20°	58.6	17.8
20°-30°	74.7	22.7
30°-40°	70.3	21.4
40°-50°	50.5	15.4
50°-60°	29.0	8.8
60°-70°	13.2	4.0
70°-80°	6.7	2.0
80°-90°	3.2	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°	155.8	47.4
0°-40°	226.1	68.8
0°-60°	305.6	93.0
0°-90°	328.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	328.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	245	245	245	245	245	
5°	236	241	240	242	244	22
15°	194	201	208	219	227	54
25°	142	149	159	177	192	65
35°	86	92	107	132	154	53
45°	32	38	61	89	111	26
55°	16	16	25	47	62	14
65°	8	10	13	15	17	8
75°	4	7	7	6	6	4
85°	2	4	4	3	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	245.4	245.4	245.4	245.4	245.4
2.5°	242.2	245.8	243.6	243.6	244.0
5°	236.1	240.8	240.1	241.9	244.0
7.5°	227.5	232.5	234.0	238.3	241.9
10°	217.5	223.2	226.1	232.9	237.6
12.5°	206.4	212.8	217.5	226.1	232.9
15°	194.2	201.0	207.5	218.6	226.8
17.5°	181.7	188.5	196.7	209.6	219.3
20°	169.1	175.9	185.2	198.9	210.7
22.5°	155.5	162.3	172.3	187.8	202.1
25°	142.2	148.7	159.4	176.6	192.0
27.5°	128.3	134.7	146.5	165.2	182.4
30°	114.3	120.7	133.6	153.7	172.7
32.5°	100.3	106.4	120.4	142.6	163.0
35°	86.0	92.1	107.1	131.5	153.7
37.5°	71.3	77.4	95.0	121.5	144.4
40°	57.3	64.1	81.7	111.4	134.4
42.5°	43.7	50.9	70.9	100.7	122.9
45°	31.5	38.3	60.6	89.2	111.1
47.5°	24.0	27.6	51.2	77.8	99.6
50°	21.1	21.5	41.9	67.4	87.4
52.5°	18.3	18.6	32.6	57.3	74.5
55°	15.8	16.1	25.4	46.9	62.0
57.5°	13.3	14.0	20.8	37.3	49.8
60°	11.1	12.5	18.3	28.3	38.0
62.5°	9.0	11.5	15.8	20.8	27.2
65°	7.5	10.4	13.3	14.7	17.2
67.5°	6.1	9.7	11.1	10.4	10.4
70°	5.0	8.6	9.3	8.6	8.6
72.5°	4.3	8.2	7.9	7.2	7.2
75°	3.6	7.2	6.8	6.1	6.1
77.5°	3.2	6.1	5.7	5.4	5.0
80°	2.5	5.0	5.0	4.7	3.9
82.5°	2.1	4.3	4.3	3.9	3.2
85°	1.8	3.6	3.6	3.2	2.5
87.5°	1.4	3.2	3.2	2.9	1.8
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	3.67	4.99	4.04	5.31	5.62	10.89	12.21	11.26	12.52	12.84
	3H	5.07	6.24	5.45	6.57	6.94	11.13	12.29	11.51	12.62	12.99
	4H	5.63	6.72	6.04	7.07	7.46	11.23	12.32	11.64	12.67	13.06
	6H	6.09	7.09	6.50	7.46	7.86	11.34	12.34	11.75	12.71	13.11
	8H	6.27	7.22	6.70	7.61	8.01	11.39	12.33	11.82	12.73	13.13
	12H	6.46	7.37	6.89	7.75	8.18	11.44	12.34	11.87	12.73	13.16
4H	2H	4.75	5.84	5.15	6.19	6.57	10.85	11.94	11.25	12.29	12.68
	3H	6.43	7.33	6.85	7.73	8.13	11.22	12.11	11.63	12.52	12.92
	4H	7.27	8.07	7.71	8.49	8.93	11.40	12.20	11.84	12.62	13.07
	6H	7.92	8.62	8.39	9.06	9.53	11.63	12.32	12.09	12.76	13.23
	8H	8.17	8.82	8.64	9.27	9.74	11.72	12.37	12.19	12.82	13.29
	12H	8.43	9.00	8.91	9.48	9.96	11.84	12.41	12.33	12.89	13.37
8H	4H	7.70	8.35	8.17	8.80	9.27	11.45	12.09	11.92	12.54	13.01
	6H	8.65	9.18	9.15	9.67	10.16	11.78	12.31	12.28	12.81	13.29
	8H	9.11	9.59	9.63	10.10	10.59	11.97	12.44	12.49	12.96	13.45
	12H	9.59	10.01	10.10	10.51	11.08	12.20	12.62	12.71	13.11	13.68
12H	4H	7.76	8.33	8.25	8.82	9.29	11.44	12.01	11.93	12.50	12.97
	6H	8.80	9.27	9.32	9.79	10.28	11.81	12.29	12.33	12.80	13.29
	8H	9.38	9.81	9.90	10.30	10.87	12.06	12.49	12.58	12.98	13.55