

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: P1059062

Luminaire Tested: S123RDRP-S1000D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059062
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-S1000D935-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

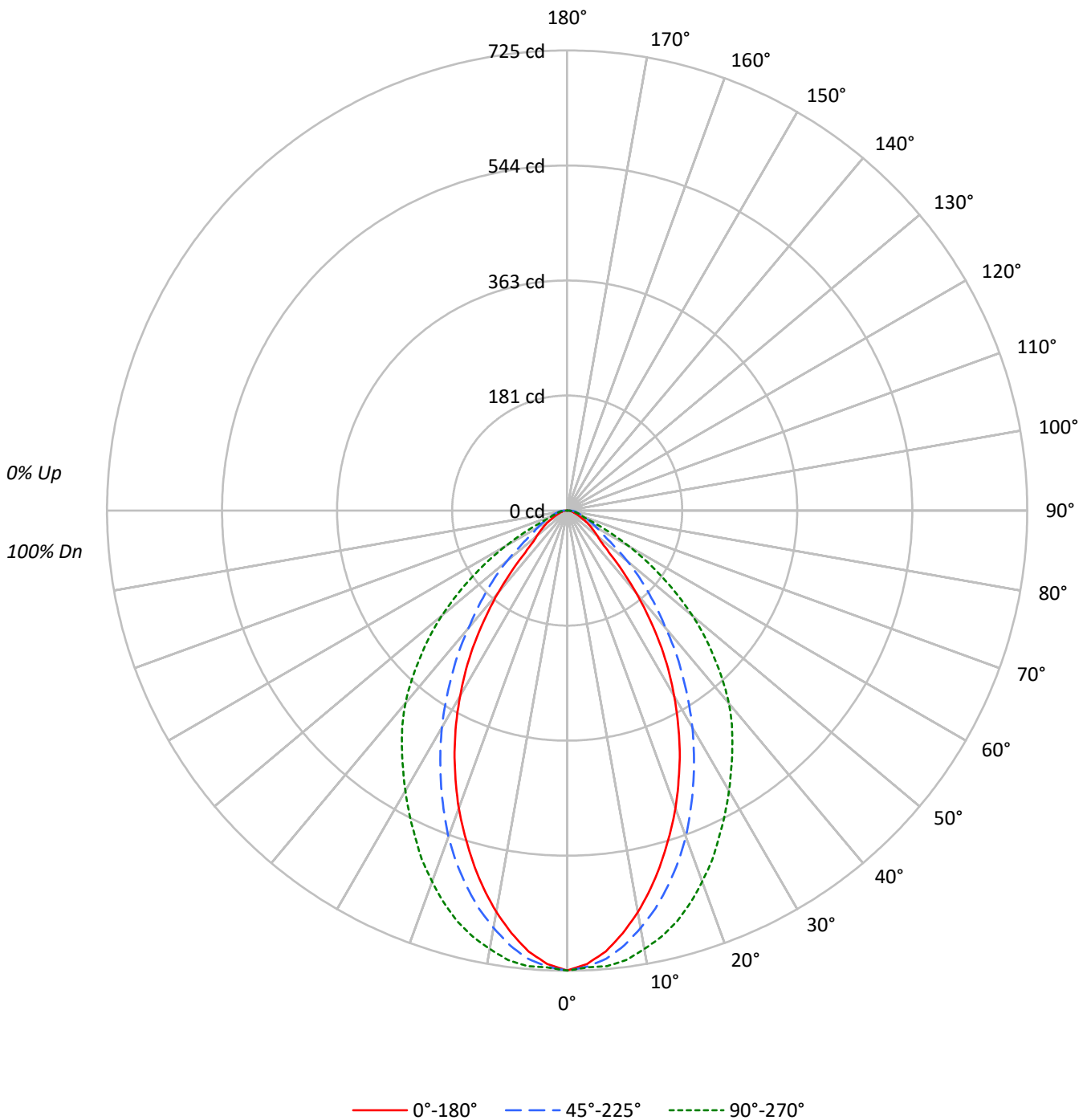
Lumens per Lamp: N/A
Luminaire Lumens: 970.5 lumens
Efficiency: N/A
Efficacy: 27.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	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					100			
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71					71			
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52					52			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8509	8509	8509
5°	8217	8355	8492
10°	7656	7959	8363
15°	6971	7446	8140
20°	6239	6834	7773
25°	5442	6099	7346
30°	4576	5350	6914
35°	3640	4534	6505
40°	2595	3697	6081
45°	1546	2969	5445
50°	1140	2262	4715
55°	952	1537	3746
60°	770	1268	2633
65°	617	1086	1411
70°	508	944	872
75°	481	912	817
80°	500	1001	784
85°	714	1428	997

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5445 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	6.9
10°-20°	172.9	17.8
20°-30°	220.6	22.7
30°-40°	207.5	21.4
40°-50°	149.1	15.4
50°-60°	85.5	8.8
60°-70°	39.1	4.0
70°-80°	19.7	2.0
80°-90°	9.6	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°	460.1	47.4
0°-40°	667.6	68.8
0°-60°	902.2	93.0
0°-90°	970.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	970.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	697	711	709	714	720	65
15°	573	594	612	645	670	160
25°	420	439	471	522	567	192
35°	254	272	316	388	454	157
45°	93	113	179	263	328	78
55°	46	48	75	139	183	42
65°	22	31	39	43	51	22
75°	11	21	20	18	18	12
85°	5	11	11	10	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.6	724.6	724.6	724.6	724.6
2.5°	715.1	725.7	719.3	719.3	720.4
5°	697.1	710.9	708.8	714.1	720.4
7.5°	671.7	686.5	690.8	703.5	714.1
10°	642.1	659.0	667.5	687.6	701.4
12.5°	609.3	628.4	642.1	667.5	687.6
15°	573.4	593.5	612.5	645.3	669.6
17.5°	536.3	556.4	580.8	618.8	647.4
20°	499.3	519.4	546.9	587.1	622.0
22.5°	459.1	479.2	508.8	554.3	596.6
25°	420.0	439.0	470.7	521.5	567.0
27.5°	378.7	397.8	432.7	487.7	538.4
30°	337.5	356.5	394.6	453.8	509.9
32.5°	296.2	314.2	355.4	421.0	481.3
35°	253.9	271.9	316.3	388.2	453.8
37.5°	210.5	228.5	280.3	358.6	426.3
40°	169.3	189.4	241.2	329.0	396.7
42.5°	129.1	150.2	209.5	297.3	362.8
45°	93.1	113.2	178.8	263.4	327.9
47.5°	70.9	81.5	151.3	229.6	294.1
50°	62.4	63.5	123.8	198.9	258.1
52.5°	54.0	55.0	96.3	169.3	220.0
55°	46.5	47.6	75.1	138.6	183.0
57.5°	39.1	41.3	61.4	110.0	147.0
60°	32.8	37.0	54.0	83.6	112.1
62.5°	26.4	33.9	46.5	61.4	80.4
65°	22.2	30.7	39.1	43.4	50.8
67.5°	18.0	28.6	32.8	30.7	30.7
70°	14.8	25.4	27.5	25.4	25.4
72.5°	12.7	24.3	23.3	21.2	21.2
75°	10.6	21.2	20.1	18.0	18.0
77.5°	9.5	18.0	16.9	15.9	14.8
80°	7.4	14.8	14.8	13.8	11.6
82.5°	6.3	12.7	12.7	11.6	9.5
85°	5.3	10.6	10.6	9.5	7.4
87.5°	4.2	9.5	9.5	8.5	5.3
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	7.43	8.75	7.79	9.06	9.37	14.65	15.96	15.01	16.28	16.59
	3H	8.83	10.00	9.21	10.33	10.69	14.88	16.05	15.26	16.38	16.75
	4H	9.39	10.48	9.79	10.83	11.21	14.99	16.08	15.39	16.43	16.81
	6H	9.85	10.85	10.26	11.22	11.61	15.10	16.10	15.51	16.47	16.86
	8H	10.03	10.98	10.46	11.37	11.78	15.14	16.09	15.57	16.48	16.89
	12H	10.22	11.13	10.66	11.51	11.94	15.19	16.10	15.63	16.48	16.92
4H	2H	8.50	9.59	8.90	9.94	10.32	14.61	15.70	15.01	16.05	16.43
	3H	10.19	11.08	10.60	11.48	11.89	14.98	15.87	15.39	16.27	16.68
	4H	11.02	11.82	11.46	12.24	12.68	15.16	15.96	15.59	16.38	16.82
	6H	11.68	12.37	12.14	12.82	13.28	15.38	16.07	15.85	16.52	16.99
	8H	11.93	12.58	12.40	13.03	13.50	15.48	16.13	15.95	16.58	17.05
	12H	12.19	12.76	12.68	13.24	13.72	15.60	16.17	16.08	16.65	17.13
8H	4H	11.46	12.10	11.93	12.55	13.02	15.20	15.85	15.67	16.30	16.77
	6H	12.41	12.94	12.91	13.44	13.92	15.54	16.07	16.04	16.56	17.04
	8H	12.87	13.35	13.39	13.86	14.36	15.73	16.20	16.25	16.72	17.21
	12H	13.35	13.77	13.87	14.27	14.84	15.96	16.38	16.47	16.88	17.45
12H	4H	11.52	12.09	12.00	12.57	13.05	15.20	15.77	15.68	16.25	16.73
	6H	12.56	13.03	13.08	13.55	14.04	15.56	16.04	16.09	16.56	17.05
	8H	13.15	13.57	13.66	14.07	14.64	15.82	16.25	16.34	16.74	17.31