

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: P1059065

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1059065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-67 )  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDRP-S1000D935-X4F0-XX-UDD-WVL-S  
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

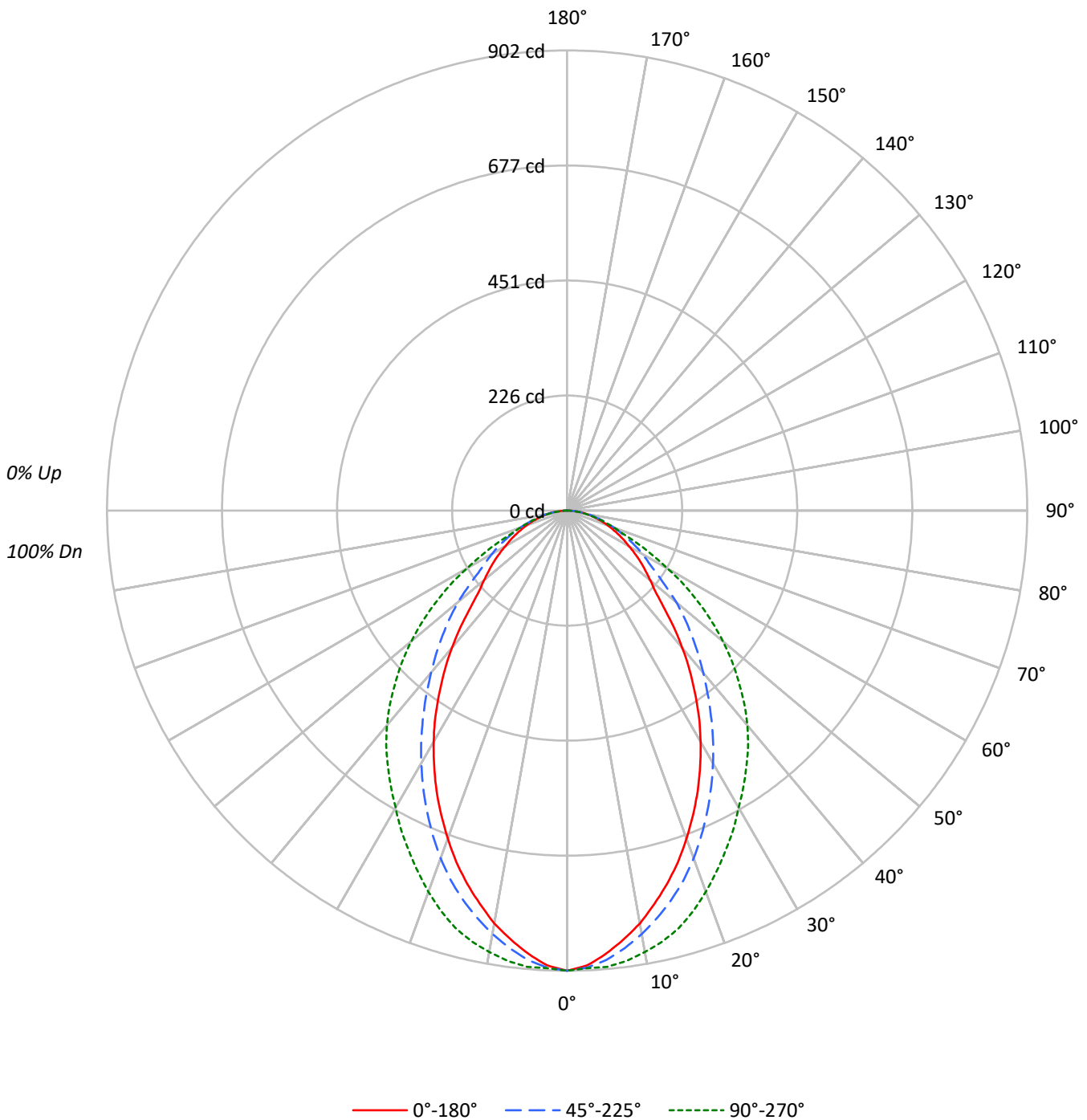
Lumens per Lamp: N/A  
Luminaire Lumens: 1629.2 lumens  
Efficiency: N/A  
Efficacy: 46.5 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.12 / 1.1  
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	39	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10591	10591	10591
5°	10282	10420	10581
10°	9796	10048	10477
15°	9204	9601	10295
20°	8549	9063	9936
25°	7850	8426	9522
30°	7097	7756	9118
35°	6260	7048	8776
40°	5380	6354	8428
45°	4426	5724	7901
50°	3882	5099	7282
55°	3593	4350	6451
60°	3302	3997	5338
65°	3084	3673	4201
70°	2905	3341	3341
75°	2736	3072	2876
80°	2576	2786	2434
85°	2425	2708	1846

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7901 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	5.1
10°-20°	223.6	13.7
20°-30°	303.1	18.6
30°-40°	316.9	19.5
40°-50°	274.9	16.9
50°-60°	204.5	12.6
60°-70°	131.2	8.1
70°-80°	70.4	4.3
80°-90°	21.3	1.3
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°	610.1	37.4
0°-40°	927.0	56.9
0°-60°	1406.4	86.3
0°-90°	1629.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1629.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	872	887	884	890	898	82
15°	757	775	790	822	847	212
25°	606	625	650	694	735	278
35°	437	458	492	554	612	273
45°	266	286	345	419	476	210
55°	176	180	212	273	315	157
65°	111	120	132	141	151	110
75°	60	70	68	64	63	64
85°	18	22	20	17	14	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	901.9	901.9	901.9	901.9	901.9
2.5°	892.4	905.1	896.6	896.6	897.7
5°	872.3	887.1	884.0	890.3	897.7
7.5°	848.0	863.9	864.9	879.7	890.3
10°	821.6	837.4	842.7	863.9	878.7
12.5°	789.8	807.8	817.3	843.8	864.9
15°	757.1	775.0	789.8	821.6	846.9
17.5°	722.2	740.2	759.2	795.1	822.6
20°	684.1	703.1	725.3	761.3	795.1
22.5°	645.0	665.1	688.3	727.5	765.5
25°	605.9	624.9	650.3	693.6	734.9
27.5°	564.6	584.7	611.2	658.7	705.3
30°	523.4	543.5	572.0	622.8	672.5
32.5°	481.1	501.2	531.9	588.9	642.9
35°	436.7	457.8	491.7	554.1	612.2
37.5°	394.4	414.5	452.5	521.3	582.6
40°	351.0	372.2	414.5	488.5	549.8
42.5°	308.7	329.9	379.6	453.6	513.9
45°	266.5	286.5	344.7	418.7	475.8
47.5°	233.7	248.5	311.9	381.7	438.8
50°	212.5	217.8	279.1	345.8	398.6
52.5°	193.5	197.7	243.2	309.8	357.4
55°	175.5	179.8	212.5	272.8	315.1
57.5°	157.5	162.8	189.3	234.7	272.8
60°	140.6	147.0	170.2	200.9	227.3
62.5°	125.8	133.2	151.2	170.2	188.2
65°	111.0	120.5	132.2	140.6	151.2
67.5°	97.3	107.9	114.2	116.3	117.4
70°	84.6	95.2	97.3	97.3	97.3
72.5°	71.9	83.5	81.4	80.4	79.3
75°	60.3	69.8	67.7	64.5	63.4
77.5°	48.6	57.1	53.9	51.8	48.6
80°	38.1	44.4	41.2	39.1	36.0
82.5°	28.5	32.8	29.6	27.5	24.3
85°	18.0	22.2	20.1	16.9	13.7
87.5°	9.5	12.7	10.6	9.5	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	14.98	16.47	15.35	16.78	17.09	17.74	19.22	18.11	19.54	19.85
	3H	16.70	18.02	17.07	18.35	18.71	18.76	20.09	19.14	20.42	20.78
	4H	17.36	18.60	17.76	18.95	19.33	19.13	20.37	19.53	20.72	21.10
	6H	17.86	19.01	18.27	19.37	19.77	19.38	20.53	19.79	20.90	21.29
	8H	18.04	19.13	18.46	19.52	19.92	19.45	20.55	19.88	20.94	21.34
	12H	18.16	19.21	18.59	19.59	20.02	19.49	20.54	19.92	20.92	21.35
4H	2H	15.76	17.01	16.16	17.35	17.73	18.01	19.26	18.41	19.61	19.99
	3H	17.69	18.72	18.10	19.12	19.52	19.27	20.30	19.68	20.70	21.10
	4H	18.50	19.43	18.93	19.84	20.28	19.75	20.68	20.19	21.10	21.54
	6H	19.14	19.95	19.60	20.39	20.85	20.13	20.94	20.59	21.39	21.85
	8H	19.37	20.12	19.83	20.57	21.03	20.25	21.00	20.71	21.45	21.91
	12H	19.54	20.21	20.02	20.69	21.16	20.32	20.99	20.80	21.47	21.94
8H	4H	18.82	19.57	19.28	20.02	20.48	19.94	20.70	20.41	21.14	21.61
	6H	19.61	20.23	20.11	20.73	21.20	20.43	21.06	20.93	21.55	22.03
	8H	19.94	20.50	20.45	21.01	21.50	20.61	21.17	21.12	21.68	22.17
	12H	20.21	20.71	20.72	21.20	21.77	20.74	21.24	21.25	21.73	22.29
12H	4H	18.84	19.52	19.32	19.99	20.47	19.96	20.63	20.44	21.11	21.58
	6H	19.66	20.22	20.18	20.73	21.22	20.47	21.03	20.98	21.54	22.03
	8H	20.06	20.55	20.57	21.05	21.61	20.70	21.20	21.21	21.69	22.25