

Scaled data based on original data using
LM-79-2019 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: S123RDR-S1000D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S123RDR-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

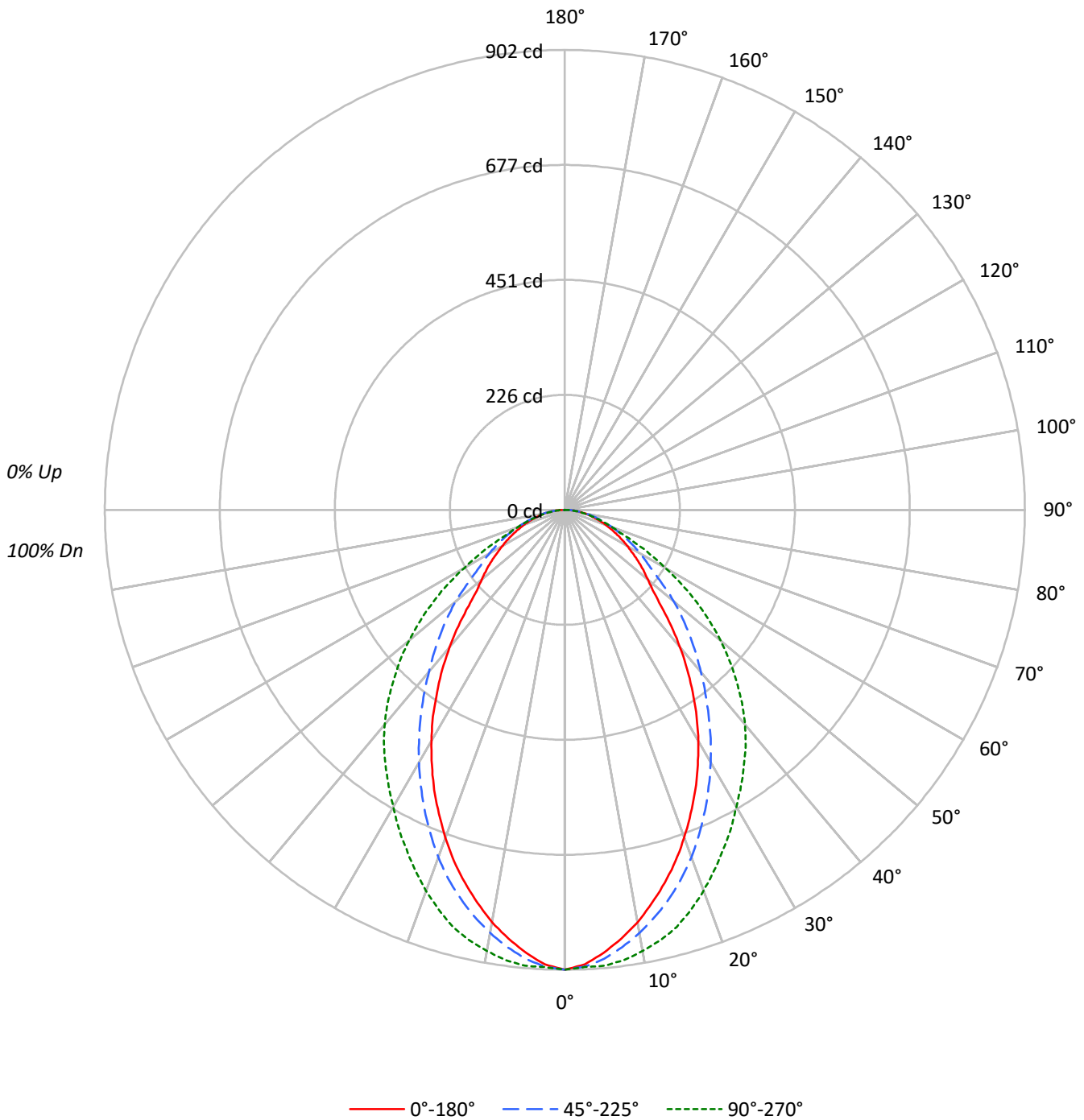
Lumens per Lamp: N/A
Luminaire Lumens: 1629.2 lumens
Efficiency: N/A
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.12 / 1.1
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): 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: P1059065

CATALOG NUMBER: S123RDR-S1000D935-X4F0-XX-UDD-WVL-S

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	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

(END OF REPORT)