

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: P1059326

Luminaire Tested: S123RDR-S560D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059326  
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-S560D950-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: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

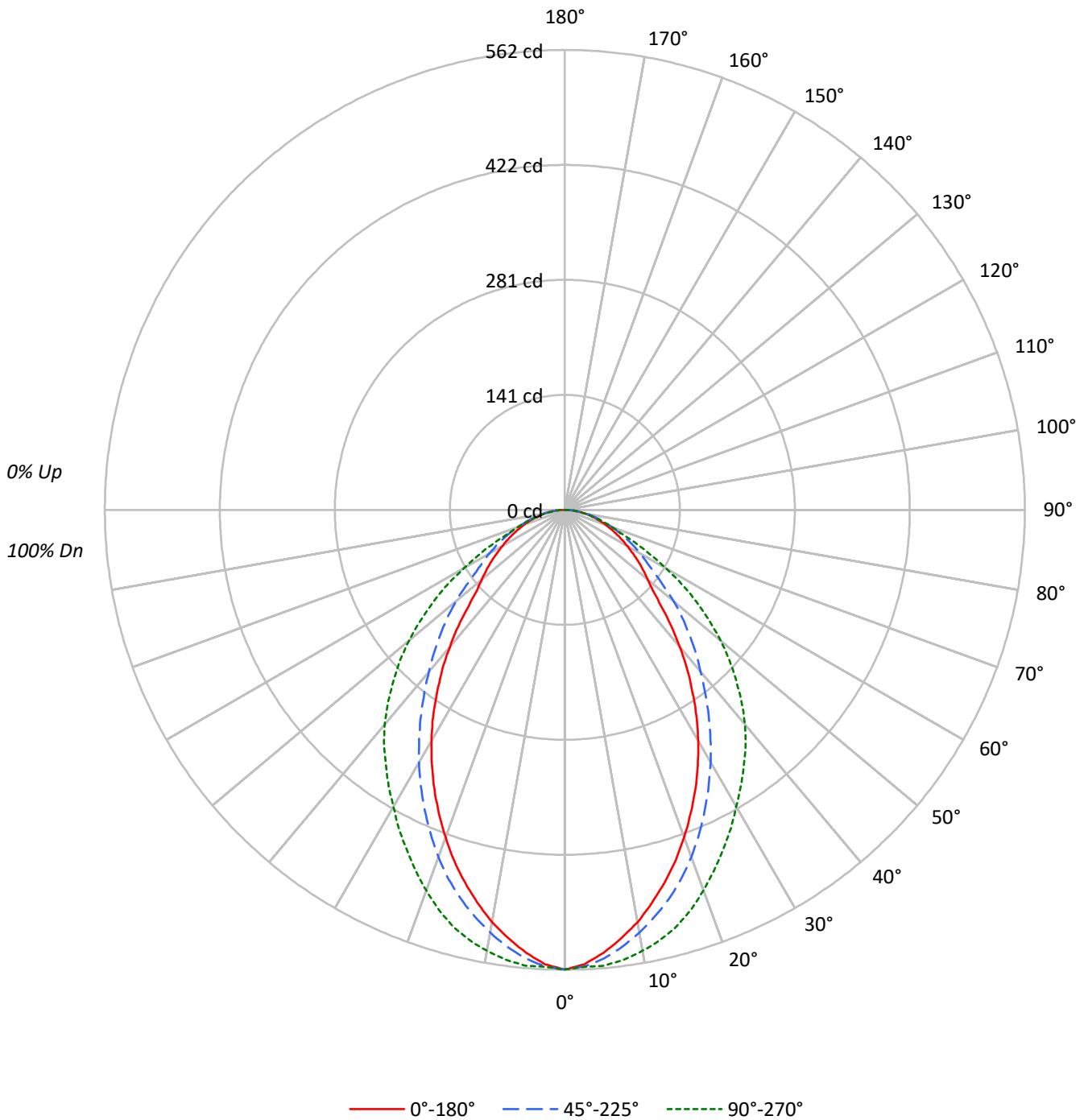
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1014.5 lumens  
Efficiency: N/A  
Efficacy: 51.8 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): 19.6  
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

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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				57
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	53	51				51
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45				45
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41				41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37				37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	39	35	34				34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31				31

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

	0°	45°	90°
0°	6595	6595	6595
5°	6403	6488	6589
10°	6099	6256	6523
15°	5731	5979	6410
20°	5323	5643	6187
25°	4887	5246	5929
30°	4419	4830	5677
35°	3898	4388	5464
40°	3351	3956	5247
45°	2755	3564	4920
50°	2417	3175	4534
55°	2238	2708	4017
60°	2057	2489	3323
65°	1920	2287	2615
70°	1809	2081	2081
75°	1701	1910	1792
80°	1603	1738	1515
85°	1509	1684	1159

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4920 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.9	5.1
10°-20°	139.2	13.7
20°-30°	188.7	18.6
30°-40°	197.3	19.5
40°-50°	171.1	16.9
50°-60°	127.3	12.6
60°-70°	81.7	8.1
70°-80°	43.8	4.3
80°-90°	13.2	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°	379.9	37.4
0°-40°	577.2	56.9
0°-60°	875.7	86.3
0°-90°	1014.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1014.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	543	552	550	554	559	51
15°	471	483	492	512	527	132
25°	377	389	405	432	458	173
35°	272	285	306	345	381	170
45°	166	178	215	261	296	131
55°	109	112	132	170	196	98
65°	69	75	82	88	94	69
75°	38	44	42	40	40	40
85°	11	14	12	10	9	13
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	561.6	561.6	561.6	561.6	561.6
2.5°	555.7	563.6	558.3	558.3	559.0
5°	543.2	552.4	550.4	554.3	559.0
7.5°	528.0	537.9	538.5	547.8	554.3
10°	511.5	521.4	524.7	537.9	547.1
12.5°	491.8	503.0	508.9	525.4	538.5
15°	471.4	482.6	491.8	511.5	527.3
17.5°	449.7	460.9	472.7	495.1	512.2
20°	426.0	437.8	451.6	474.0	495.1
22.5°	401.6	414.1	428.6	453.0	476.7
25°	377.2	389.1	404.9	431.9	457.6
27.5°	351.6	364.1	380.5	410.2	439.1
30°	325.9	338.4	356.2	387.8	418.7
32.5°	299.6	312.1	331.2	366.7	400.3
35°	271.9	285.1	306.1	345.0	381.2
37.5°	245.6	258.1	281.8	324.6	362.8
40°	218.6	231.7	258.1	304.2	342.3
42.5°	192.2	205.4	236.4	282.4	320.0
45°	165.9	178.4	214.6	260.7	296.3
47.5°	145.5	154.7	194.2	237.7	273.2
50°	132.3	135.6	173.8	215.3	248.2
52.5°	120.5	123.1	151.4	192.9	222.5
55°	109.3	111.9	132.3	169.9	196.2
57.5°	98.1	101.4	117.8	146.2	169.9
60°	87.6	91.5	106.0	125.1	141.5
62.5°	78.3	83.0	94.1	106.0	117.2
65°	69.1	75.1	82.3	87.6	94.1
67.5°	60.6	67.2	71.1	72.4	73.1
70°	52.7	59.3	60.6	60.6	60.6
72.5°	44.8	52.0	50.7	50.0	49.4
75°	37.5	43.5	42.1	40.2	39.5
77.5°	30.3	35.6	33.6	32.3	30.3
80°	23.7	27.7	25.7	24.4	22.4
82.5°	17.8	20.4	18.4	17.1	15.1
85°	11.2	13.8	12.5	10.5	8.6
87.5°	5.9	7.9	6.6	5.9	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)