

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: P1061835

Luminaire Tested: S125RDR-S850D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S850D950-X4F0-XX-UDD-SVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

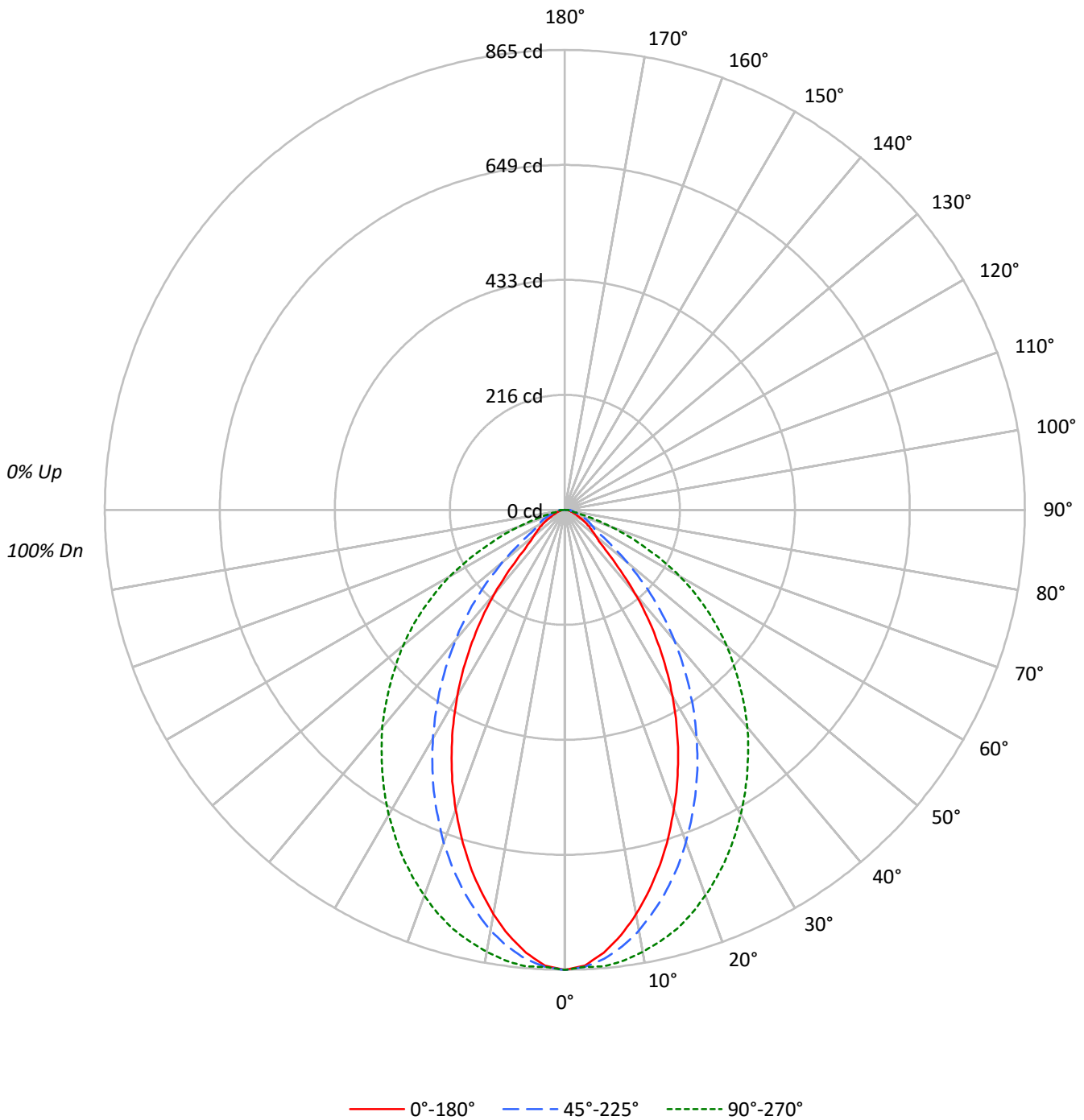
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1253.2 lumens  
Efficiency: N/A  
Efficacy: 48.6 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 25.8  
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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

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

	0°	45°	90°
0°	5956	5956	5956
5°	5782	5859	5954
10°	5400	5618	5901
15°	4928	5276	5813
20°	4392	4877	5659
25°	3827	4428	5476
30°	3216	3940	5263
35°	2558	3423	5031
40°	1843	2875	4801
45°	1093	2282	4521
50°	808	1625	4255
55°	684	1005	3895
60°	558	810	3432
65°	435	749	2711
70°	370	648	1814
75°	343	561	734
80°	365	583	511
85°	434	869	585

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4521 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.7	6.4
10°-20°	209.4	16.7
20°-30°	273.7	21.8
30°-40°	266.6	21.3
40°-50°	200.0	16.0
50°-60°	125.4	10.0
60°-70°	65.3	5.2
70°-80°	23.6	1.9
80°-90°	9.4	0.7
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°	562.9	44.9
0°-40°	829.5	66.2
0°-60°	1154.9	92.2
0°-90°	1253.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1253.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	837	848	848	854	862	78
15°	691	712	740	786	816	193
25°	504	531	583	662	721	230
35°	304	336	407	516	598	189
45°	112	145	234	362	464	94
55°	57	60	84	219	324	51
65°	27	28	46	88	166	27
75°	13	18	21	22	28	14
85°	6	9	11	10	7	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	865.1	865.1	865.1	865.1	865.1
2.5°	857.8	866.1	860.5	860.5	860.5
5°	836.6	847.7	847.7	854.1	861.5
7.5°	807.2	820.1	828.4	844.0	855.0
10°	772.3	787.9	803.5	829.3	844.0
12.5°	732.8	751.1	773.2	809.1	831.1
15°	691.4	711.6	740.1	786.1	815.5
17.5°	646.3	670.2	704.3	759.4	795.3
20°	599.4	623.3	665.6	728.2	772.3
22.5°	552.6	578.3	624.3	695.1	747.5
25°	503.8	531.4	582.9	662.0	720.8
27.5°	454.2	482.7	539.7	627.9	691.4
30°	404.5	434.0	495.6	591.2	662.0
32.5°	354.9	386.1	451.4	553.5	630.7
35°	304.3	336.5	407.3	515.8	598.5
37.5°	255.6	287.8	363.2	477.2	566.3
40°	205.0	240.0	319.9	438.5	534.2
42.5°	155.4	191.2	276.7	399.9	499.2
45°	112.2	145.3	234.4	362.2	464.3
47.5°	86.4	104.8	191.2	323.6	430.3
50°	75.4	80.9	151.7	287.8	397.2
52.5°	65.3	69.0	114.0	254.7	361.3
55°	57.0	59.8	83.7	218.8	324.5
57.5°	47.8	51.5	66.2	183.9	286.8
60°	40.5	42.3	58.8	151.7	249.2
62.5°	33.1	34.9	52.4	119.5	206.9
65°	26.7	28.5	46.0	88.3	166.4
67.5°	22.1	23.0	38.6	62.5	127.8
70°	18.4	19.3	32.2	43.2	90.1
72.5°	15.6	18.4	25.7	31.3	57.0
75°	12.9	17.5	21.1	22.1	27.6
77.5°	11.0	16.5	17.5	17.5	15.6
80°	9.2	13.8	14.7	13.8	12.9
82.5°	7.4	11.0	12.0	12.0	10.1
85°	5.5	9.2	11.0	10.1	7.4
87.5°	3.7	8.3	9.2	8.3	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)