

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: P1061474

Luminaire Tested: S125RDR-S1090D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1090D927-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

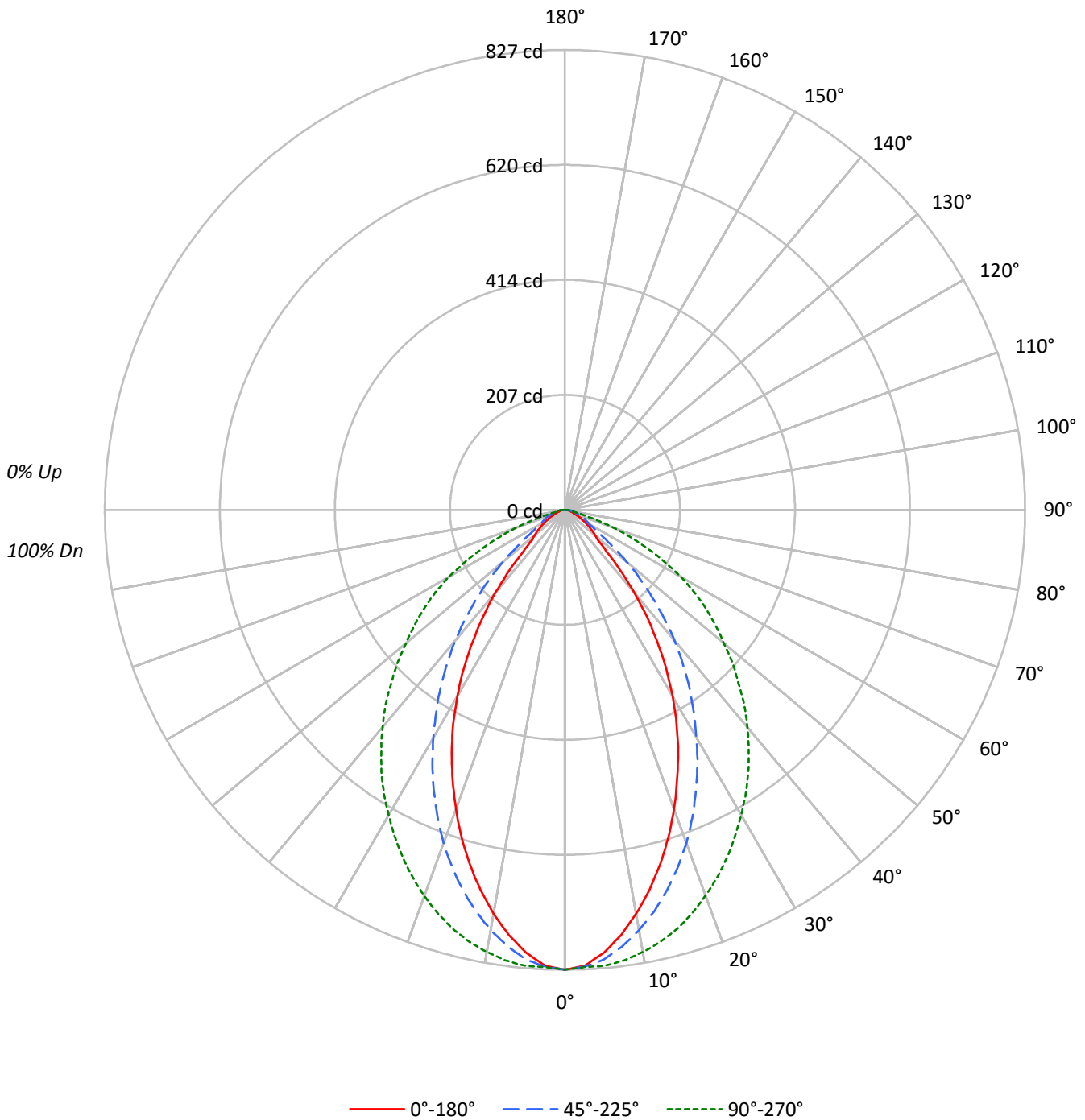
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1194.0 lumens  
Efficiency: N/A  
Efficacy: 34.1 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): 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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	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	106	103	100	101	99	97	98	96	94	94	93	91	89													89															
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79													79															
3	96	88	81	76	94	87	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	63													63															
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56													56															
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	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	41	39													39															
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36													36															

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

	0°	45°	90°
0°	5693	5693	5693
5°	5525	5607	5688
10°	5157	5363	5644
15°	4706	5048	5559
20°	4198	4672	5412
25°	3659	4233	5239
30°	3073	3759	5038
35°	2424	3273	4831
40°	1736	2750	4585
45°	1022	2159	4298
50°	756	1555	3992
55°	636	942	3709
60°	514	689	3309
65°	399	655	2652
70°	336	612	1798
75°	314	548	782
80°	309	543	508
85°	387	695	545

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4298 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.2	6.4
10°-20°	200.2	16.8
20°-30°	261.6	21.9
30°-40°	254.6	21.3
40°-50°	190.3	15.9
50°-60°	118.0	9.9
60°-70°	62.0	5.2
70°-80°	22.6	1.9
80°-90°	8.5	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°	537.9	45.1
0°-40°	792.6	66.4
0°-60°	1100.9	92.2
0°-90°	1194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	799	810	811	816	823	74
15°	660	680	708	751	780	184
25°	482	506	557	633	690	220
35°	288	320	389	493	575	179
45°	105	137	222	346	441	88
55°	53	56	78	204	309	48
65°	24	26	40	86	163	26
75°	12	14	21	23	29	13
85°	5	9	9	9	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	826.9	826.9	826.9	826.9	826.9
2.5°	820.0	826.9	822.0	822.0	823.0
5°	799.4	810.2	811.2	816.1	823.0
7.5°	771.0	783.7	791.6	806.3	817.1
10°	737.6	752.4	767.1	791.6	807.3
12.5°	700.4	718.0	739.6	773.0	795.5
15°	660.2	679.8	708.2	751.4	779.8
17.5°	618.0	638.6	673.9	725.9	760.2
20°	572.9	595.4	637.6	696.4	738.6
22.5°	526.7	552.3	598.4	665.1	715.1
25°	481.6	506.2	557.2	632.7	689.6
27.5°	434.5	460.0	516.0	599.3	662.1
30°	386.5	413.9	472.8	565.0	633.7
32.5°	338.4	366.9	430.6	529.7	605.2
35°	288.4	319.8	389.4	493.4	574.8
37.5°	241.3	274.7	347.2	456.1	542.4
40°	193.2	227.6	306.0	419.8	510.1
42.5°	146.2	181.5	263.9	382.6	477.7
45°	105.0	137.3	221.7	346.3	441.4
47.5°	80.4	99.1	182.4	309.0	409.0
50°	70.6	76.5	145.2	272.7	372.7
52.5°	61.8	65.7	107.9	237.4	341.4
55°	53.0	55.9	78.5	204.0	309.0
57.5°	45.1	48.1	59.8	173.6	275.6
60°	37.3	40.2	50.0	143.2	240.3
62.5°	31.4	32.4	45.1	114.8	201.1
65°	24.5	26.5	40.2	86.3	162.8
67.5°	20.6	21.6	35.3	61.8	125.6
70°	16.7	17.7	30.4	43.2	89.3
72.5°	14.7	14.7	25.5	31.4	56.9
75°	11.8	13.7	20.6	22.6	29.4
77.5°	9.8	13.7	17.7	16.7	15.7
80°	7.8	12.8	13.7	13.7	12.8
82.5°	6.9	10.8	11.8	10.8	9.8
85°	4.9	8.8	8.8	8.8	6.9
87.5°	3.9	7.8	6.9	6.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)