

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: P1061511

Luminaire Tested: S125RDR-S1090D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061511  
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-S1090D950-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: -

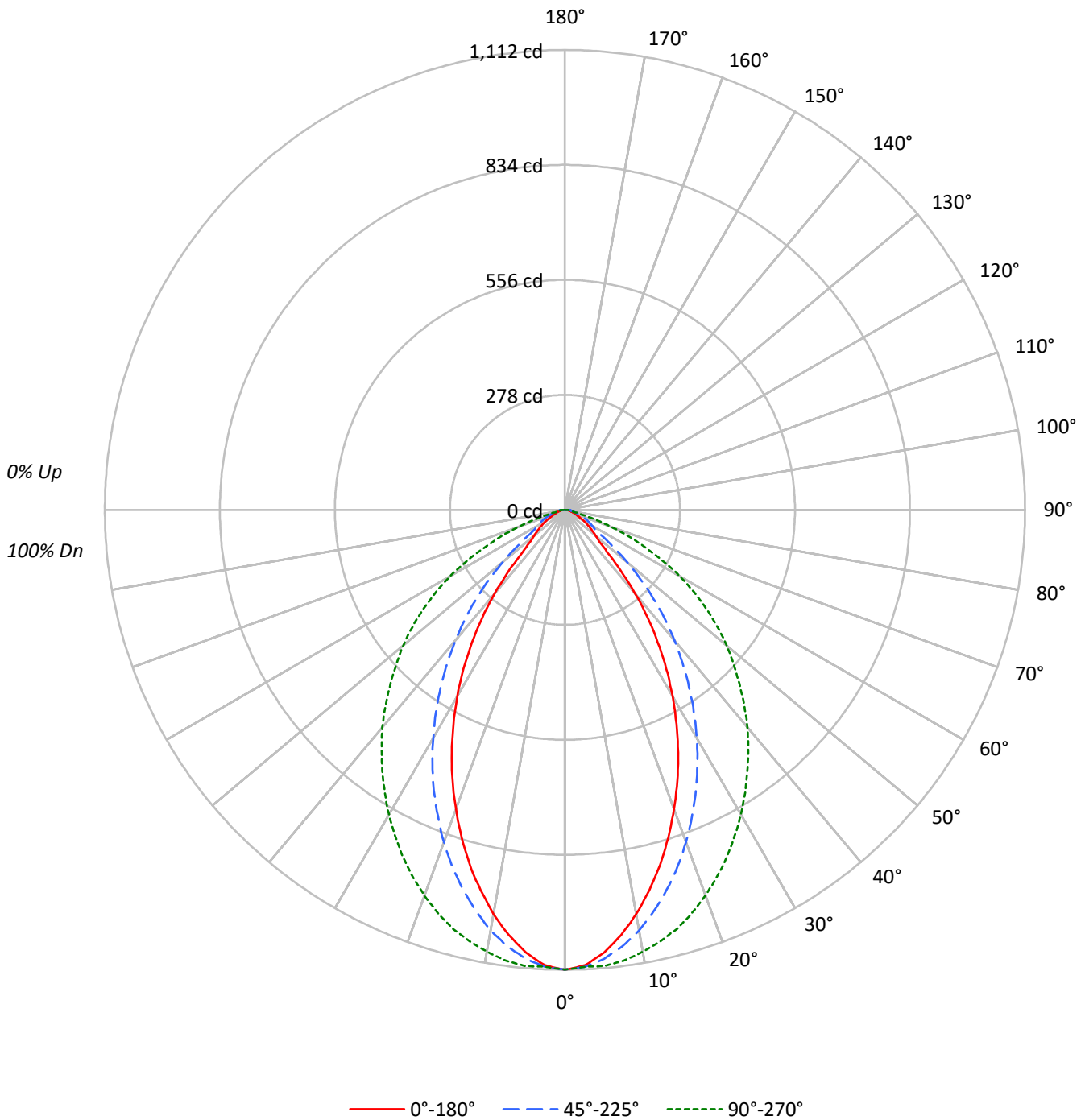
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1610.4 lumens  
Efficiency: N/A  
Efficacy: 46.0 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	
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°	7655	7655	7655
5°	7431	7529	7651
10°	6938	7219	7583
15°	6333	6780	7470
20°	5644	6268	7271
25°	4918	5691	7037
30°	4133	5063	6763
35°	3287	4399	6465
40°	2368	3696	6169
45°	1403	2934	5809
50°	1038	2088	5467
55°	880	1290	5007
60°	716	1041	4409
65°	559	963	3483
70°	475	833	2331
75°	439	724	942
80°	468	749	654
85°	561	1122	750

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5809 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.5	6.4
10°-20°	269.1	16.7
20°-30°	351.7	21.8
30°-40°	342.7	21.3
40°-50°	257.0	16.0
50°-60°	161.1	10.0
60°-70°	83.9	5.2
70°-80°	30.3	1.9
80°-90°	12.0	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°	723.3	44.9
0°-40°	1066.0	66.2
0°-60°	1484.1	92.2
0°-90°	1610.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1610.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1075	1089	1089	1098	1107	100
15°	888	914	951	1010	1048	248
25°	647	683	749	851	926	296
35°	391	432	523	663	769	243
45°	144	187	301	466	597	121
55°	73	77	108	281	417	65
65°	34	37	59	113	214	35
75°	16	22	27	28	35	18
85°	7	12	14	13	10	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1111.8	1111.8	1111.8	1111.8	1111.8
2.5°	1102.3	1113.0	1105.9	1105.9	1105.9
5°	1075.1	1089.3	1089.3	1097.6	1107.0
7.5°	1037.3	1053.9	1064.5	1084.6	1098.8
10°	992.4	1012.5	1032.6	1065.7	1084.6
12.5°	941.6	965.3	993.6	1039.7	1068.1
15°	888.5	914.5	951.1	1010.2	1048.0
17.5°	830.6	861.3	905.0	975.9	1022.0
20°	770.3	801.0	855.4	935.7	992.4
22.5°	710.1	743.1	802.2	893.2	960.5
25°	647.4	682.9	749.1	850.7	926.3
27.5°	583.6	620.3	693.5	806.9	888.5
30°	519.8	557.7	636.8	759.7	850.7
32.5°	456.0	496.2	580.1	711.2	810.5
35°	391.1	432.4	523.4	662.8	769.1
37.5°	328.5	369.8	466.7	613.2	727.8
40°	263.5	308.4	411.2	563.6	686.4
42.5°	199.7	245.7	355.6	513.9	641.5
45°	144.1	186.7	301.3	465.5	596.6
47.5°	111.1	134.7	245.7	415.9	552.9
50°	96.9	104.0	194.9	369.8	510.4
52.5°	83.9	88.6	146.5	327.3	464.3
55°	73.3	76.8	107.5	281.2	417.1
57.5°	61.4	66.2	85.1	236.3	368.6
60°	52.0	54.3	75.6	194.9	320.2
62.5°	42.5	44.9	67.3	153.6	265.8
65°	34.3	36.6	59.1	113.4	213.8
67.5°	28.4	29.5	49.6	80.3	164.2
70°	23.6	24.8	41.4	55.5	115.8
72.5°	20.1	23.6	33.1	40.2	73.3
75°	16.5	22.4	27.2	28.4	35.4
77.5°	14.2	21.3	22.4	22.4	20.1
80°	11.8	17.7	18.9	17.7	16.5
82.5°	9.5	14.2	15.4	15.4	13.0
85°	7.1	11.8	14.2	13.0	9.5
87.5°	4.7	10.6	11.8	10.6	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)