

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: P1061456

Luminaire Tested: S125RDR-S1090D840-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061456  
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-S1090D840-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

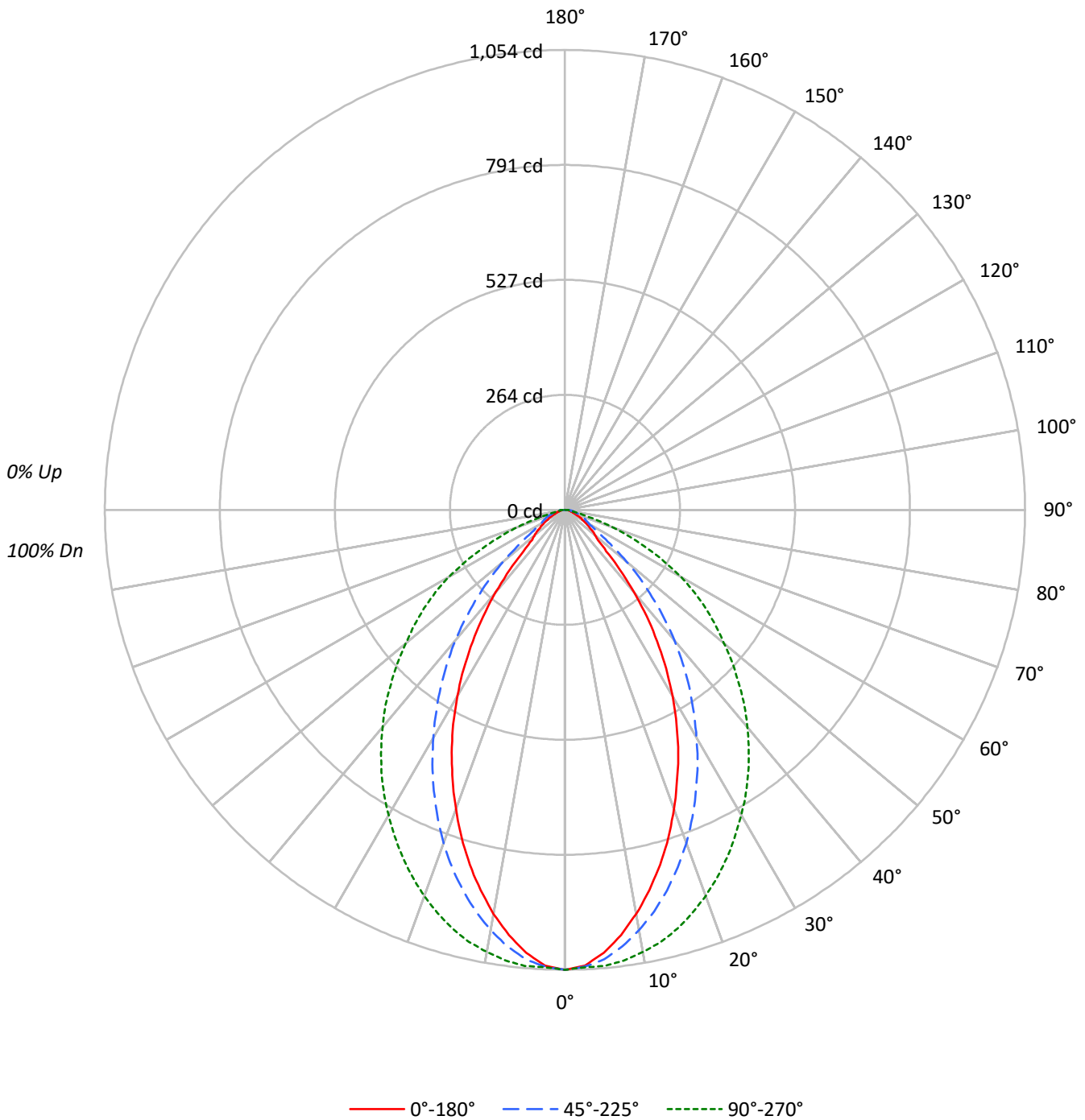
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1522.2 lumens  
Efficiency: N/A  
Efficacy: 43.5 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										
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	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°	7258	7258	7258
5°	7044	7147	7251
10°	6574	6837	7195
15°	5999	6435	7086
20°	5351	5955	6899
25°	4665	5396	6679
30°	3917	4792	6422
35°	3090	4172	6159
40°	2214	3506	5844
45°	1303	2752	5479
50°	964	1983	5090
55°	810	1200	4728
60°	654	879	4219
65°	510	836	3382
70°	429	781	2291
75°	399	700	998
80°	397	694	646
85°	498	893	695

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5479 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.1	6.4
10°-20°	255.2	16.8
20°-30°	333.5	21.9
30°-40°	324.6	21.3
40°-50°	242.6	15.9
50°-60°	150.5	9.9
60°-70°	79.0	5.2
70°-80°	28.8	1.9
80°-90°	10.9	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°	685.8	45.1
0°-40°	1010.4	66.4
0°-60°	1403.4	92.2
0°-90°	1522.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1522.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1019	1033	1034	1040	1049	95
15°	842	867	903	958	994	235
25°	614	645	710	806	879	280
35°	368	408	496	629	733	229
45°	134	175	283	441	563	113
55°	68	71	100	260	394	61
65°	31	34	51	110	208	33
75°	15	18	26	29	38	16
85°	6	11	11	11	9	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1054.1	1054.1	1054.1	1054.1	1054.1
2.5°	1045.4	1054.1	1047.9	1047.9	1049.1
5°	1019.1	1032.9	1034.1	1040.4	1049.1
7.5°	982.9	999.1	1009.1	1027.9	1041.6
10°	940.3	959.1	977.9	1009.1	1029.1
12.5°	892.8	915.3	942.8	985.4	1014.1
15°	841.6	866.6	902.8	957.9	994.1
17.5°	787.8	814.0	859.1	925.3	969.1
20°	730.3	759.0	812.8	887.8	941.6
22.5°	671.5	704.0	762.8	847.8	911.6
25°	614.0	645.2	710.3	806.5	879.1
27.5°	554.0	586.5	657.7	764.0	844.1
30°	492.7	527.7	602.7	720.3	807.8
32.5°	431.4	467.7	549.0	675.2	771.5
35°	367.6	407.6	496.4	629.0	732.8
37.5°	307.6	350.1	442.7	581.5	691.5
40°	246.3	290.1	390.1	535.2	650.2
42.5°	186.3	231.3	336.4	487.7	609.0
45°	133.8	175.1	282.6	441.4	562.7
47.5°	102.5	126.3	232.6	393.9	521.4
50°	90.0	97.5	185.1	347.6	475.2
52.5°	78.8	83.8	137.6	302.6	435.2
55°	67.5	71.3	100.0	260.1	393.9
57.5°	57.5	61.3	76.3	221.3	351.4
60°	47.5	51.3	63.8	182.6	306.4
62.5°	40.0	41.3	57.5	146.3	256.3
65°	31.3	33.8	51.3	110.0	207.6
67.5°	26.3	27.5	45.0	78.8	160.1
70°	21.3	22.5	38.8	55.0	113.8
72.5°	18.8	18.8	32.5	40.0	72.5
75°	15.0	17.5	26.3	28.8	37.5
77.5°	12.5	17.5	22.5	21.3	20.0
80°	10.0	16.3	17.5	17.5	16.3
82.5°	8.8	13.8	15.0	13.8	12.5
85°	6.3	11.3	11.3	11.3	8.8
87.5°	5.0	10.0	8.8	8.8	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)