

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: P1061564

Luminaire Tested: S125RDR-S1270D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061564  
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-S1270D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

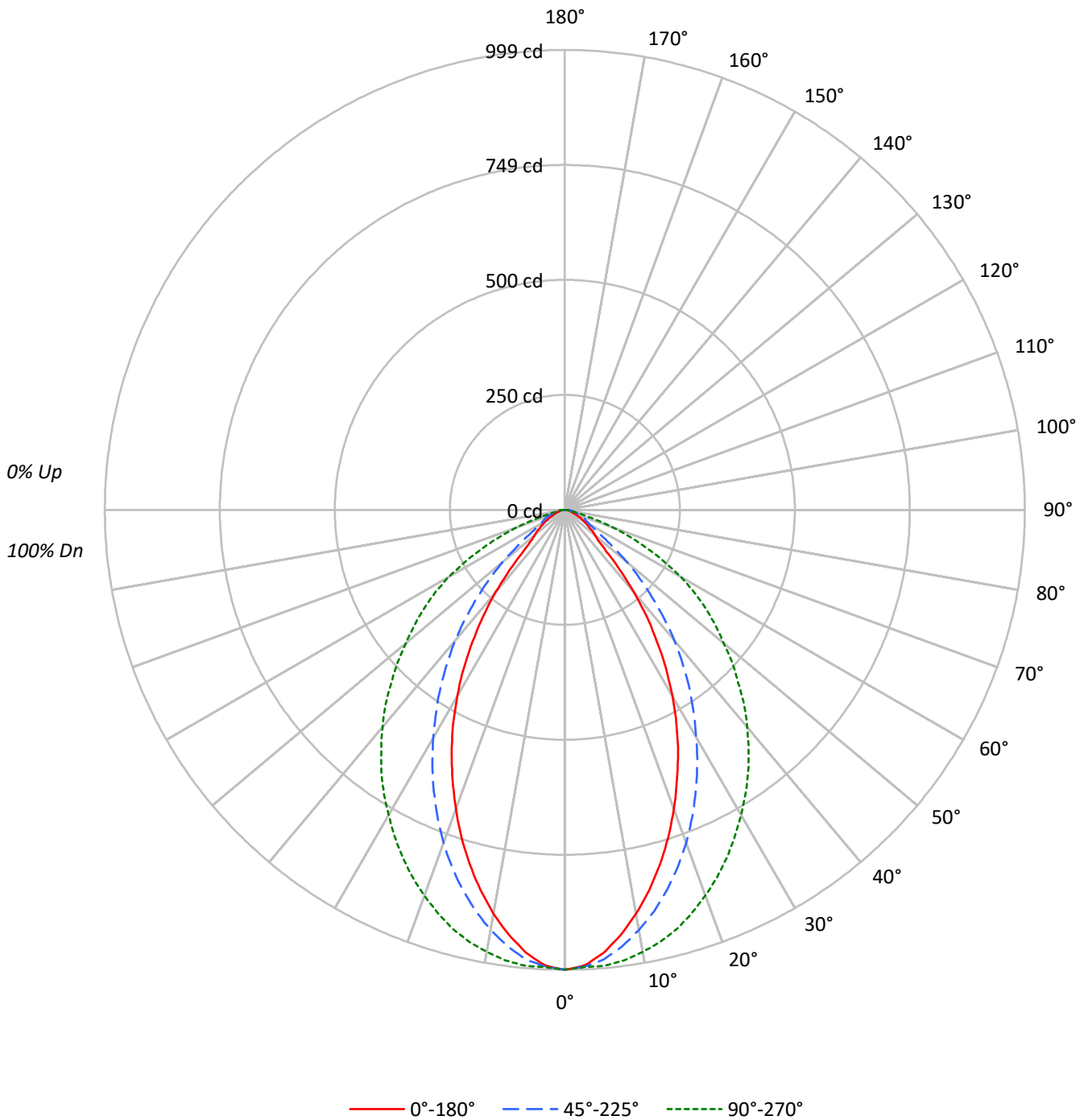
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1442.2 lumens  
Efficiency: N/A  
Efficacy: 34.5 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): 41.8  
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	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°	6877	6877	6877
5°	6674	6772	6870
10°	6229	6478	6817
15°	5684	6097	6714
20°	5070	5643	6537
25°	4419	5113	6328
30°	3711	4540	6085
35°	2928	3954	5836
40°	2098	3323	5538
45°	1235	2608	5192
50°	914	1878	4822
55°	768	1138	4480
60°	620	832	3998
65°	482	792	3205
70°	405	739	2170
75°	378	662	944
80°	377	658	611
85°	466	845	656

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5192 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	6.4
10°-20°	241.8	16.8
20°-30°	316.0	21.9
30°-40°	307.6	21.3
40°-50°	229.9	15.9
50°-60°	142.6	9.9
60°-70°	74.9	5.2
70°-80°	27.3	1.9
80°-90°	10.3	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°	649.7	45.1
0°-40°	957.3	66.4
0°-60°	1329.7	92.2
0°-90°	1442.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1442.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	966	979	980	986	994	90
15°	797	821	855	908	942	223
25°	582	611	673	764	833	266
35°	348	386	470	596	694	217
45°	127	166	268	418	533	107
55°	64	68	95	246	373	58
65°	30	32	49	104	197	31
75°	14	17	25	27	36	15
85°	6	11	11	11	8	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	998.8	998.8	998.8	998.8	998.8
2.5°	990.5	998.8	992.9	992.9	994.0
5°	965.6	978.6	979.8	985.7	994.0
7.5°	931.2	946.6	956.1	973.9	986.9
10°	891.0	908.7	926.5	956.1	975.1
12.5°	845.9	867.3	893.3	933.6	960.9
15°	797.4	821.1	855.4	907.6	941.9
17.5°	746.4	771.3	814.0	876.7	918.2
20°	691.9	719.2	770.1	841.2	892.1
22.5°	636.2	667.0	722.7	803.3	863.7
25°	581.7	611.4	673.0	764.2	832.9
27.5°	524.9	555.7	623.2	723.9	799.7
30°	466.8	500.0	571.1	682.4	765.4
32.5°	408.8	443.1	520.1	639.8	731.0
35°	348.3	386.2	470.4	596.0	694.3
37.5°	291.5	331.7	419.4	550.9	655.2
40°	233.4	274.9	369.7	507.1	616.1
42.5°	176.5	219.2	318.7	462.1	577.0
45°	126.8	165.9	267.8	418.2	533.2
47.5°	97.2	119.7	220.4	373.2	494.1
50°	85.3	92.4	175.3	329.4	450.2
52.5°	74.6	79.4	130.3	286.7	412.3
55°	64.0	67.5	94.8	246.4	373.2
57.5°	54.5	58.1	72.3	209.7	332.9
60°	45.0	48.6	60.4	173.0	290.3
62.5°	37.9	39.1	54.5	138.6	242.9
65°	29.6	32.0	48.6	104.3	196.7
67.5°	24.9	26.1	42.7	74.6	151.7
70°	20.1	21.3	36.7	52.1	107.8
72.5°	17.8	17.8	30.8	37.9	68.7
75°	14.2	16.6	24.9	27.3	35.5
77.5°	11.8	16.6	21.3	20.1	19.0
80°	9.5	15.4	16.6	16.6	15.4
82.5°	8.3	13.0	14.2	13.0	11.8
85°	5.9	10.7	10.7	10.7	8.3
87.5°	4.7	9.5	8.3	8.3	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)