

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: P1061552

Luminaire Tested: S125RDR-S1270D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D927-X4F0-XX-UDD-BVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

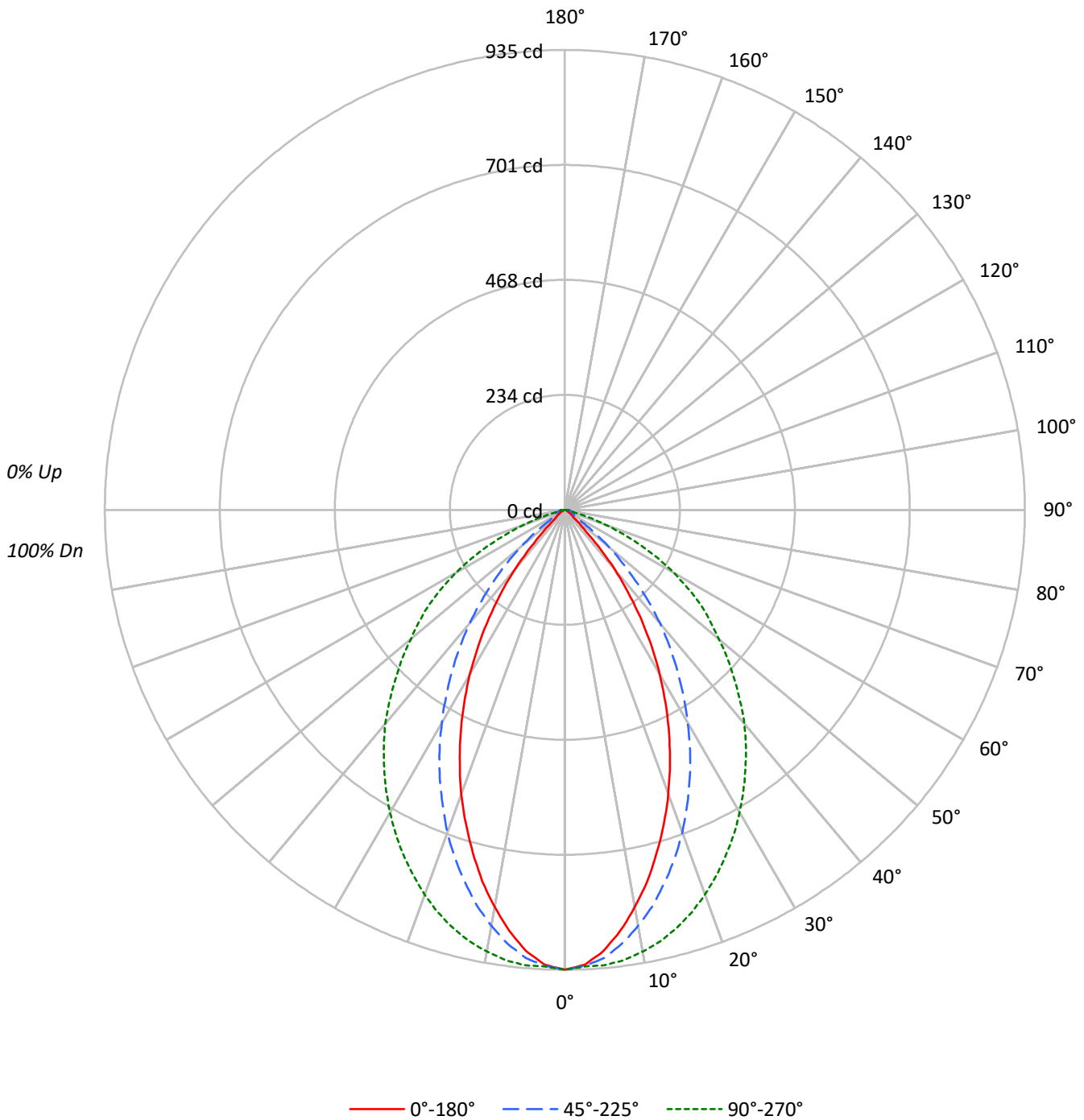
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1202.5 lumens  
Efficiency: N/A  
Efficacy: 28.8 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98  
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				39

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

	0°	45°	90°
0°	6437	6437	6437
5°	6223	6319	6422
10°	5732	6005	6376
15°	5146	5589	6271
20°	4505	5112	6100
25°	3805	4566	5887
30°	3066	3973	5648
35°	2255	3349	5381
40°	1408	2701	5102
45°	527	1973	4742
50°	246	1233	4378
55°	180	511	4050
60°	127	270	3505
65°	75	319	2776
70°	70	370	1761
75°	93	367	551
80°	139	456	412
85°	276	727	545

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4742 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.7	7.1
10°-20°	221.9	18.5
20°-30°	282.7	23.5
30°-40°	263.2	21.9
40°-50°	180.3	15.0
50°-60°	99.3	8.3
60°-70°	47.0	3.9
70°-80°	14.8	1.2
80°-90°	7.6	0.6
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°	590.4	49.1
0°-40°	853.6	71.0
0°-60°	1133.1	94.2
0°-90°	1202.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	900	912	914	921	929	83
15°	722	745	784	843	880	201
25°	501	532	601	698	775	229
35°	268	306	398	530	640	166
45°	54	91	203	359	487	52
55°	15	17	43	200	337	14
65°	5	6	20	74	170	5
75°	4	6	14	15	21	4
85°	4	8	9	8	7	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	934.9	934.9	934.9	934.9	934.9
2.5°	925.7	934.9	928.0	928.0	929.2
5°	900.4	911.9	914.2	921.1	929.2
7.5°	863.5	878.5	890.0	909.6	923.4
10°	819.8	838.2	858.9	891.2	911.9
12.5°	773.7	793.3	824.4	869.3	898.1
15°	721.9	744.9	784.1	842.8	879.7
17.5°	669.0	694.3	742.6	811.7	857.8
20°	614.8	641.3	697.7	774.9	832.5
22.5°	558.4	587.2	649.4	736.9	804.8
25°	500.9	531.9	601.0	697.7	774.9
27.5°	443.3	475.5	551.5	657.4	743.8
30°	385.7	419.1	499.7	616.0	710.4
32.5°	327.0	363.8	449.0	574.5	675.9
35°	268.3	306.3	398.4	529.6	640.2
37.5°	210.7	249.9	348.9	487.0	604.5
40°	156.6	195.7	300.5	444.4	567.6
42.5°	101.3	142.8	249.9	400.7	527.3
45°	54.1	91.0	202.6	359.2	487.0
47.5°	28.8	48.4	157.7	317.8	449.0
50°	23.0	26.5	115.1	276.3	408.7
52.5°	18.4	20.7	73.7	233.7	373.0
55°	15.0	17.3	42.6	200.3	337.4
57.5°	11.5	13.8	24.2	167.0	295.9
60°	9.2	10.4	19.6	133.6	254.5
62.5°	5.8	8.1	19.6	103.6	213.0
65°	4.6	5.8	19.6	73.7	170.4
67.5°	4.6	4.6	19.6	48.4	127.8
70°	3.5	3.5	18.4	31.1	87.5
72.5°	3.5	3.5	16.1	20.7	50.7
75°	3.5	5.8	13.8	15.0	20.7
77.5°	3.5	9.2	12.7	12.7	11.5
80°	3.5	9.2	11.5	10.4	10.4
82.5°	3.5	9.2	9.2	9.2	8.1
85°	3.5	8.1	9.2	8.1	6.9
87.5°	3.5	8.1	8.1	8.1	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)