

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: P1061588

Luminaire Tested: S125RDR-S1270D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061588  
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-S1270D950-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: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

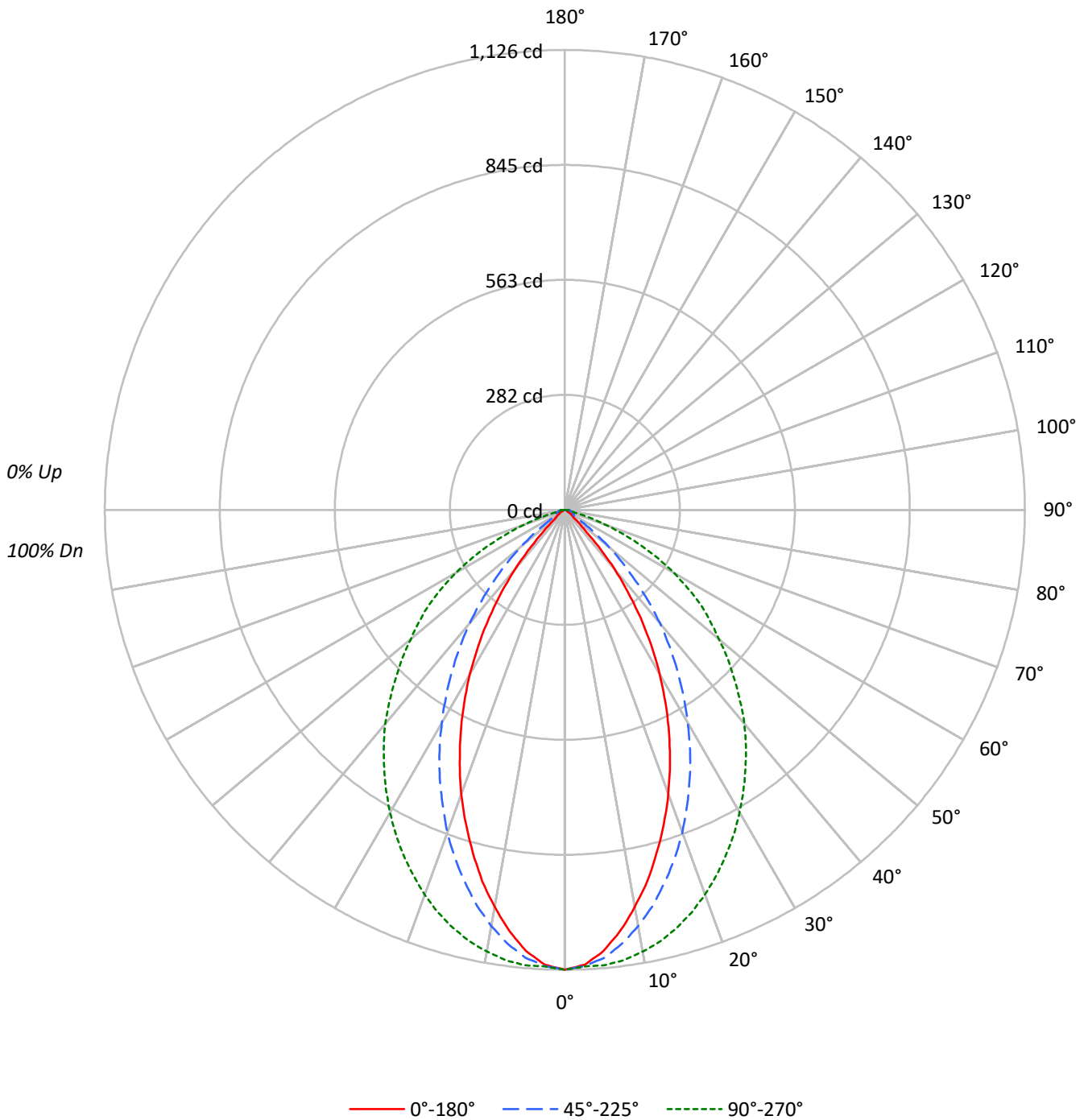
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1448.2 lumens  
Efficiency: N/A  
Efficacy: 34.6 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				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

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

	0°	45°	90°
0°	7752	7752	7752
5°	7494	7609	7734
10°	6902	7232	7678
15°	6197	6731	7551
20°	5425	6157	7345
25°	4583	5499	7090
30°	3693	4785	6802
35°	2716	4033	6480
40°	1695	3253	6144
45°	635	2376	5711
50°	297	1486	5272
55°	216	616	4877
60°	153	325	4219
65°	90	384	3343
70°	85	447	2122
75°	112	442	665
80°	167	551	496
85°	332	877	656

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5711 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.2	7.1
10°-20°	267.3	18.5
20°-30°	340.5	23.5
30°-40°	316.9	21.9
40°-50°	217.1	15.0
50°-60°	119.6	8.3
60°-70°	56.6	3.9
70°-80°	17.8	1.2
80°-90°	9.1	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°	711.0	49.1
0°-40°	1027.9	71.0
0°-60°	1364.6	94.2
0°-90°	1448.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1448.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1084	1098	1101	1109	1119	100
15°	869	897	944	1015	1059	242
25°	603	641	724	840	933	275
35°	323	369	480	638	771	200
45°	65	110	244	433	586	62
55°	18	21	51	241	406	16
65°	6	7	24	89	205	6
75°	4	7	17	18	25	4
85°	4	10	11	10	8	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1125.9	1125.9	1125.9	1125.9	1125.9
2.5°	1114.8	1125.9	1117.6	1117.6	1119.0
5°	1084.3	1098.2	1100.9	1109.3	1119.0
7.5°	1039.9	1058.0	1071.8	1095.4	1112.0
10°	987.2	1009.4	1034.4	1073.2	1098.2
12.5°	931.8	955.4	992.8	1046.9	1081.5
15°	869.4	897.1	944.3	1015.0	1059.3
17.5°	805.6	836.1	894.3	977.5	1033.0
20°	740.4	772.3	840.3	933.2	1002.5
22.5°	672.5	707.2	782.0	887.4	969.2
25°	603.2	640.6	723.8	840.3	933.2
27.5°	533.8	572.7	664.2	791.7	895.7
30°	464.5	504.7	601.8	741.8	855.5
32.5°	393.8	438.2	540.8	691.9	813.9
35°	323.1	368.8	479.8	637.8	770.9
37.5°	253.7	300.9	420.1	586.5	728.0
40°	188.6	235.7	361.9	535.2	683.6
42.5°	122.0	171.9	300.9	482.5	635.1
45°	65.2	109.5	244.0	432.6	586.5
47.5°	34.7	58.2	190.0	382.7	540.8
50°	27.7	31.9	138.7	332.8	492.2
52.5°	22.2	25.0	88.7	281.5	449.3
55°	18.0	20.8	51.3	241.3	406.3
57.5°	13.9	16.6	29.1	201.1	356.4
60°	11.1	12.5	23.6	160.8	306.4
62.5°	6.9	9.7	23.6	124.8	256.5
65°	5.5	6.9	23.6	88.7	205.2
67.5°	5.5	5.5	23.6	58.2	153.9
70°	4.2	4.2	22.2	37.4	105.4
72.5°	4.2	4.2	19.4	25.0	61.0
75°	4.2	6.9	16.6	18.0	25.0
77.5°	4.2	11.1	15.3	15.3	13.9
80°	4.2	11.1	13.9	12.5	12.5
82.5°	4.2	11.1	11.1	11.1	9.7
85°	4.2	9.7	11.1	9.7	8.3
87.5°	4.2	9.7	9.7	9.7	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)