

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: P1061750

Luminaire Tested: S125RDR-S610D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061750
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-S610D950-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: -

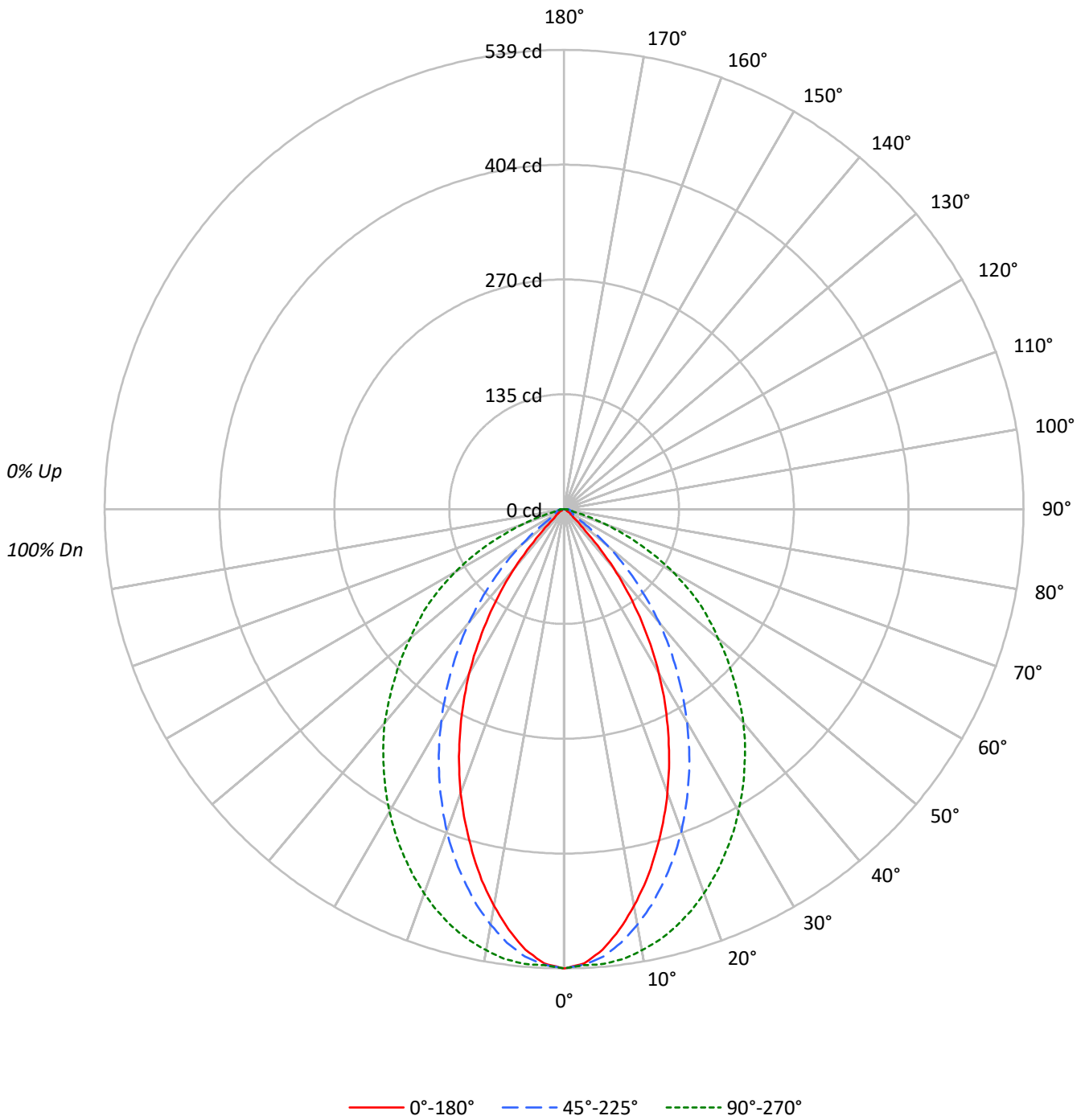
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 693.4 lumens
Efficiency: N/A
Efficacy: 35.4 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): 19.6
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

TEST NUMBER: P1061750
CATALOG NUMBER: S125RDR-S610D950-X4F0-XX-UDD-BVL-S

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°	3712	3712	3712
5°	3588	3644	3703
10°	3305	3463	3676
15°	2967	3223	3615
20°	2597	2948	3517
25°	2194	2633	3394
30°	1768	2291	3256
35°	1300	1931	3102
40°	812	1558	2942
45°	304	1138	2734
50°	142	711	2525
55°	103	295	2335
60°	73	156	2020
65°	44	184	1601
70°	40	213	1017
75°	53	213	319
80°	79	262	238
85°	158	419	316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2734 cd/sqm



TEST NUMBER: P1061750

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	7.1
10°-20°	128.0	18.5
20°-30°	163.0	23.5
30°-40°	151.7	21.9
40°-50°	104.0	15.0
50°-60°	57.3	8.3
60°-70°	27.1	3.9
70°-80°	8.5	1.2
80°-90°	4.3	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°	340.4	49.1
0°-40°	492.2	71.0
0°-60°	653.4	94.2
0°-90°	693.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	519	526	527	531	536	48
15°	416	430	452	486	507	116
25°	289	307	347	402	447	132
35°	155	177	230	305	369	96
45°	31	52	117	207	281	30
55°	9	10	25	116	194	8
65°	3	3	11	42	98	3
75°	2	3	8	9	12	2
85°	2	5	5	5	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	539.1	539.1	539.1	539.1	539.1
2.5°	533.8	539.1	535.1	535.1	535.8
5°	519.2	525.8	527.2	531.1	535.8
7.5°	497.9	506.6	513.2	524.5	532.5
10°	472.7	483.3	495.3	513.9	525.8
12.5°	446.2	457.4	475.4	501.3	517.9
15°	416.3	429.6	452.1	486.0	507.2
17.5°	385.7	400.3	428.2	468.1	494.6
20°	354.5	369.8	402.3	446.8	480.0
22.5°	322.0	338.6	374.5	424.9	464.1
25°	288.8	306.7	346.6	402.3	446.8
27.5°	255.6	274.2	318.0	379.1	428.9
30°	222.4	241.7	288.1	355.2	409.6
32.5°	188.6	209.8	258.9	331.3	389.7
35°	154.7	176.6	229.7	305.4	369.1
37.5°	121.5	144.1	201.2	280.8	348.6
40°	90.3	112.9	173.3	256.3	327.3
42.5°	58.4	82.3	144.1	231.0	304.1
45°	31.2	52.5	116.9	207.1	280.8
47.5°	16.6	27.9	91.0	183.2	258.9
50°	13.3	15.3	66.4	159.3	235.7
52.5°	10.6	12.0	42.5	134.8	215.1
55°	8.6	10.0	24.6	115.5	194.5
57.5°	6.6	8.0	13.9	96.3	170.6
60°	5.3	6.0	11.3	77.0	146.7
62.5°	3.3	4.6	11.3	59.8	122.8
65°	2.7	3.3	11.3	42.5	98.3
67.5°	2.7	2.7	11.3	27.9	73.7
70°	2.0	2.0	10.6	17.9	50.5
72.5°	2.0	2.0	9.3	12.0	29.2
75°	2.0	3.3	8.0	8.6	12.0
77.5°	2.0	5.3	7.3	7.3	6.6
80°	2.0	5.3	6.6	6.0	6.0
82.5°	2.0	5.3	5.3	5.3	4.6
85°	2.0	4.6	5.3	4.6	4.0
87.5°	2.0	4.6	4.6	4.6	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)