

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: P1061752

Luminaire Tested: S125RDR-S610D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D950-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

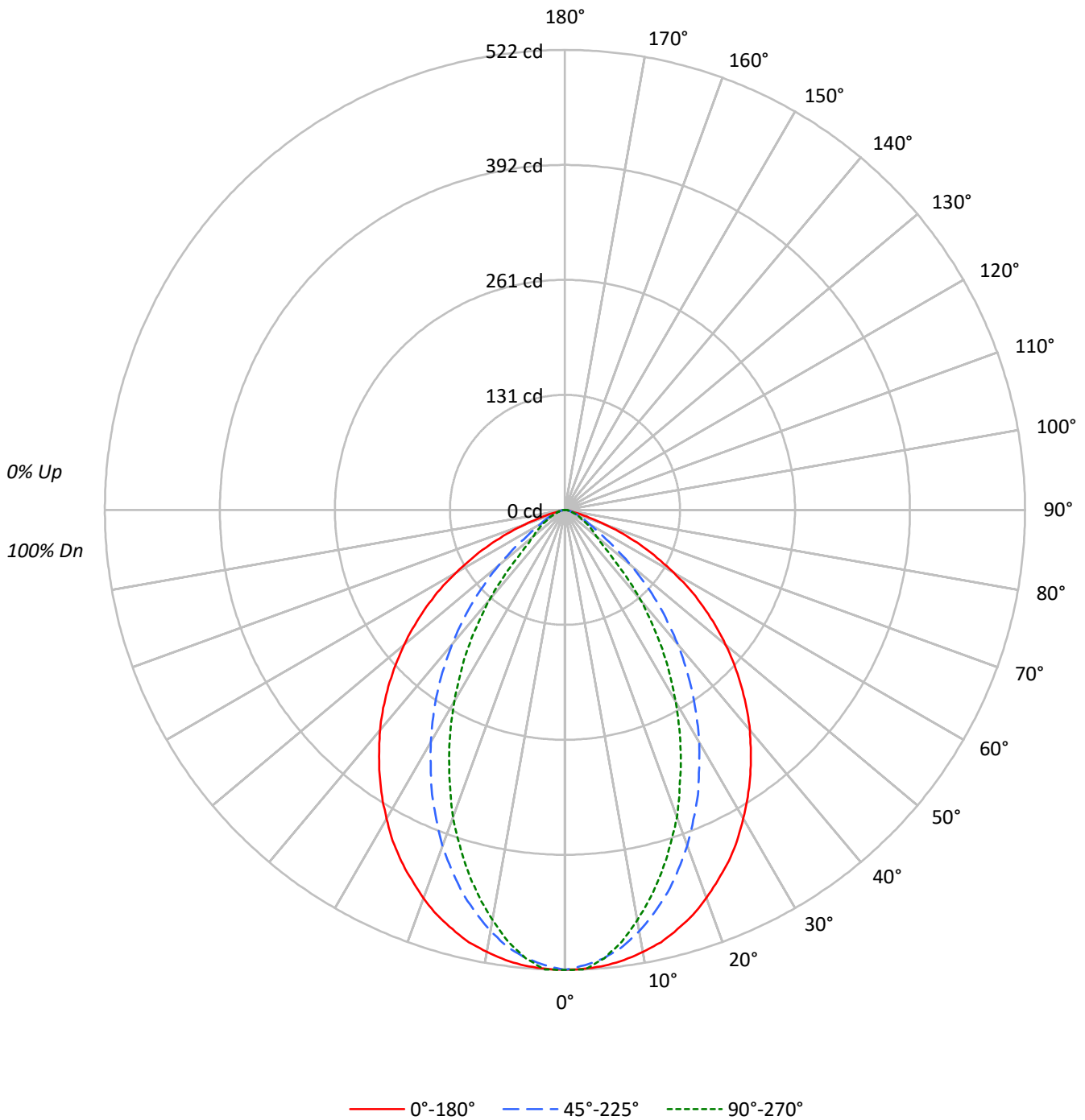
Lumens per Lamp: N/A
Luminaire Lumens: 755.0 lumens
Efficiency: N/A
Efficacy: 38.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3595	3595	3595
5°	3590	3530	3530
10°	3562	3395	3307
15°	3513	3206	3031
20°	3436	2975	2722
25°	3341	2711	2363
30°	3218	2421	1994
35°	3083	2119	1617
40°	2934	1789	1198
45°	2759	1434	723
50°	2550	1052	497
55°	2301	645	414
60°	1955	438	329
65°	1546	336	259
70°	974	240	213
75°	317	176	176
80°	107	131	159
85°	55	103	103

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2759 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	6.4
10°-20°	127.5	16.9
20°-30°	167.7	22.2
30°-40°	164.8	21.8
40°-50°	124.7	16.5
50°-60°	75.6	10.0
60°-70°	35.7	4.7
70°-80°	9.3	1.2
80°-90°	1.4	0.2
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°	343.5	45.5
0°-40°	508.3	67.3
0°-60°	708.6	93.9
0°-90°	755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	519	518	511	512	511	49
15°	493	480	450	432	425	139
25°	440	407	357	324	311	202
35°	367	318	252	208	192	229
45°	283	223	147	94	74	218
55°	192	131	54	36	34	171
65°	95	48	21	17	16	94
75°	12	8	7	7	7	18
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.1	522.1	522.1	522.1	522.1
2.5°	521.4	521.4	517.4	522.1	522.1
5°	519.4	518.1	510.8	511.5	510.8
7.5°	515.4	512.8	500.2	496.9	494.2
10°	509.5	504.2	485.6	477.6	473.0
12.5°	502.8	493.5	468.3	457.1	449.8
15°	492.9	479.6	449.8	432.5	425.2
17.5°	482.3	463.0	427.9	407.3	398.0
20°	469.0	446.4	406.0	380.8	371.5
22.5°	454.4	427.9	380.8	352.9	340.3
25°	439.8	406.6	356.9	323.7	311.1
27.5°	423.2	385.4	329.7	295.2	281.3
30°	404.7	364.2	304.5	268.7	250.8
32.5°	386.1	342.3	278.0	238.8	220.9
35°	366.8	317.8	252.1	207.6	192.4
37.5°	346.3	294.5	225.5	179.1	161.2
40°	326.4	271.3	199.0	149.9	133.3
42.5°	305.1	248.1	172.5	121.4	102.8
45°	283.3	222.9	147.3	93.5	74.3
47.5°	260.7	200.3	122.1	69.0	55.7
50°	238.1	176.5	98.2	51.1	46.4
52.5°	214.9	153.2	74.3	42.5	40.5
55°	191.7	131.3	53.7	36.5	34.5
57.5°	167.8	107.5	40.5	31.2	29.2
60°	142.0	86.2	31.8	25.9	23.9
62.5°	118.1	67.7	25.9	21.2	19.9
65°	94.9	48.4	20.6	17.2	15.9
67.5°	71.0	32.5	15.9	13.3	13.3
70°	48.4	21.2	11.9	10.6	10.6
72.5°	29.2	12.6	8.6	8.6	8.6
75°	11.9	8.0	6.6	6.6	6.6
77.5°	4.0	4.6	4.6	5.3	5.3
80°	2.7	2.7	3.3	4.0	4.0
82.5°	1.3	2.0	2.0	2.7	2.7
85°	0.7	0.7	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)