

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: P1061755

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D950-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

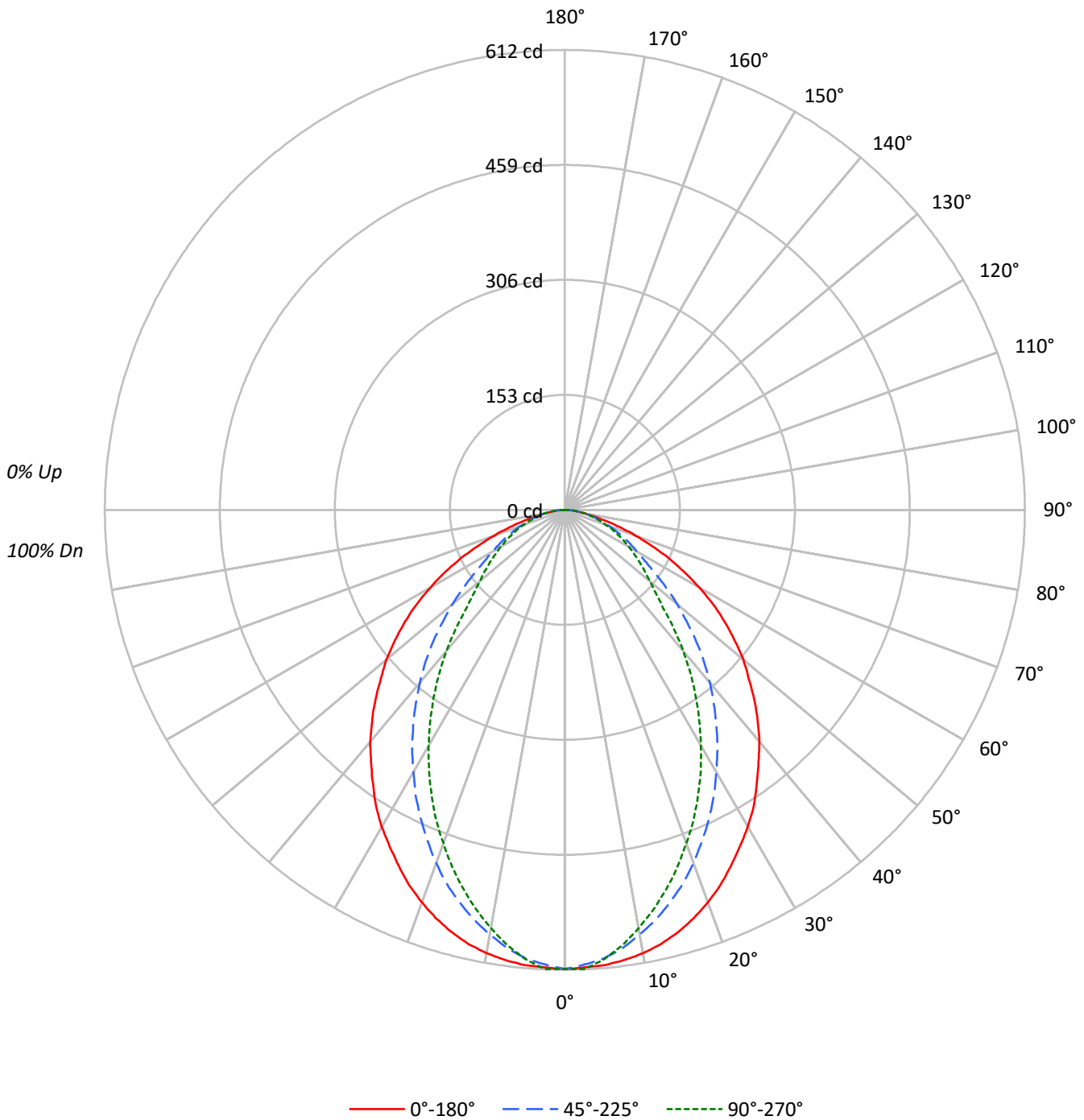
Lumens per Lamp: N/A
Luminaire Lumens: 1157.4 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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										
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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87						87														
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75						75														
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65						65														
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57						57														
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50						50														
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45						45														
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40						40														
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36						36														
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33						33														
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30						30														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4206	4206	4206
5°	4204	4140	4149
10°	4188	4012	3952
15°	4147	3853	3722
20°	4073	3665	3461
25°	3971	3447	3185
30°	3871	3202	2880
35°	3741	2955	2554
40°	3619	2695	2200
45°	3468	2409	1802
50°	3318	2089	1578
55°	3114	1744	1457
60°	2841	1526	1361
65°	2486	1395	1264
70°	2017	1256	1176
75°	1447	1147	1093
80°	999	1027	1027
85°	735	893	940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3468 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	4.9
10°-20°	153.6	13.3
20°-30°	212.4	18.3
30°-40°	226.2	19.5
40°-50°	198.7	17.2
50°-60°	150.7	13.0
60°-70°	97.8	8.5
70°-80°	48.5	4.2
80°-90°	12.7	1.1
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°	422.8	36.5
0°-40°	649.0	56.1
0°-60°	998.4	86.3
0°-90°	1157.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	608	607	599	601	600	58
15°	582	568	541	528	522	164
25°	523	494	454	430	419	241
35°	445	404	352	320	304	279
45°	356	306	247	203	185	275
55°	259	208	145	125	121	231
65°	153	113	86	79	78	151
75°	54	48	43	42	41	61
85°	9	11	11	11	12	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.9	610.9	610.9	610.9	610.9
2.5°	609.6	610.9	605.6	610.3	611.6
5°	608.3	607.0	599.0	601.0	600.3
7.5°	604.3	601.7	588.4	587.1	584.4
10°	599.0	592.4	573.8	569.2	565.2
12.5°	591.7	581.1	558.5	549.3	544.6
15°	581.8	568.5	540.6	528.0	522.1
17.5°	569.8	551.2	522.1	504.8	498.2
20°	555.9	534.0	500.2	480.3	472.3
22.5°	540.6	514.8	476.9	455.7	447.1
25°	522.7	494.2	453.7	430.5	419.2
27.5°	504.8	473.0	429.2	403.3	391.4
30°	486.9	450.4	402.7	374.8	362.2
32.5°	467.7	427.2	378.1	347.6	333.0
35°	445.1	404.0	351.6	319.7	303.8
37.5°	423.2	379.4	325.7	289.9	274.6
40°	402.7	356.2	299.8	260.7	244.8
42.5°	379.4	331.7	274.0	232.8	214.9
45°	356.2	306.5	247.4	203.0	185.1
47.5°	331.7	282.6	219.6	175.8	163.8
50°	309.8	258.0	195.0	155.2	147.3
52.5°	284.6	234.2	169.8	139.3	134.0
55°	259.4	208.3	145.3	125.4	121.4
57.5°	233.5	185.1	126.0	113.4	109.5
60°	206.3	161.2	110.8	100.8	98.8
62.5°	179.1	136.6	97.5	90.2	87.6
65°	152.6	113.4	85.6	78.9	77.6
67.5°	125.4	92.2	73.6	69.0	68.3
70°	100.2	75.0	62.4	59.7	58.4
72.5°	76.9	59.7	52.4	50.4	49.8
75°	54.4	47.8	43.1	41.8	41.1
77.5°	36.5	36.5	34.5	33.2	33.8
80°	25.2	26.5	25.9	25.9	25.9
82.5°	16.6	17.9	18.6	18.6	18.6
85°	9.3	10.6	11.3	11.3	11.9
87.5°	3.3	4.0	4.6	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)