

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: P1061815

Luminaire Tested: S125RDR-S850D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061815
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-S850D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

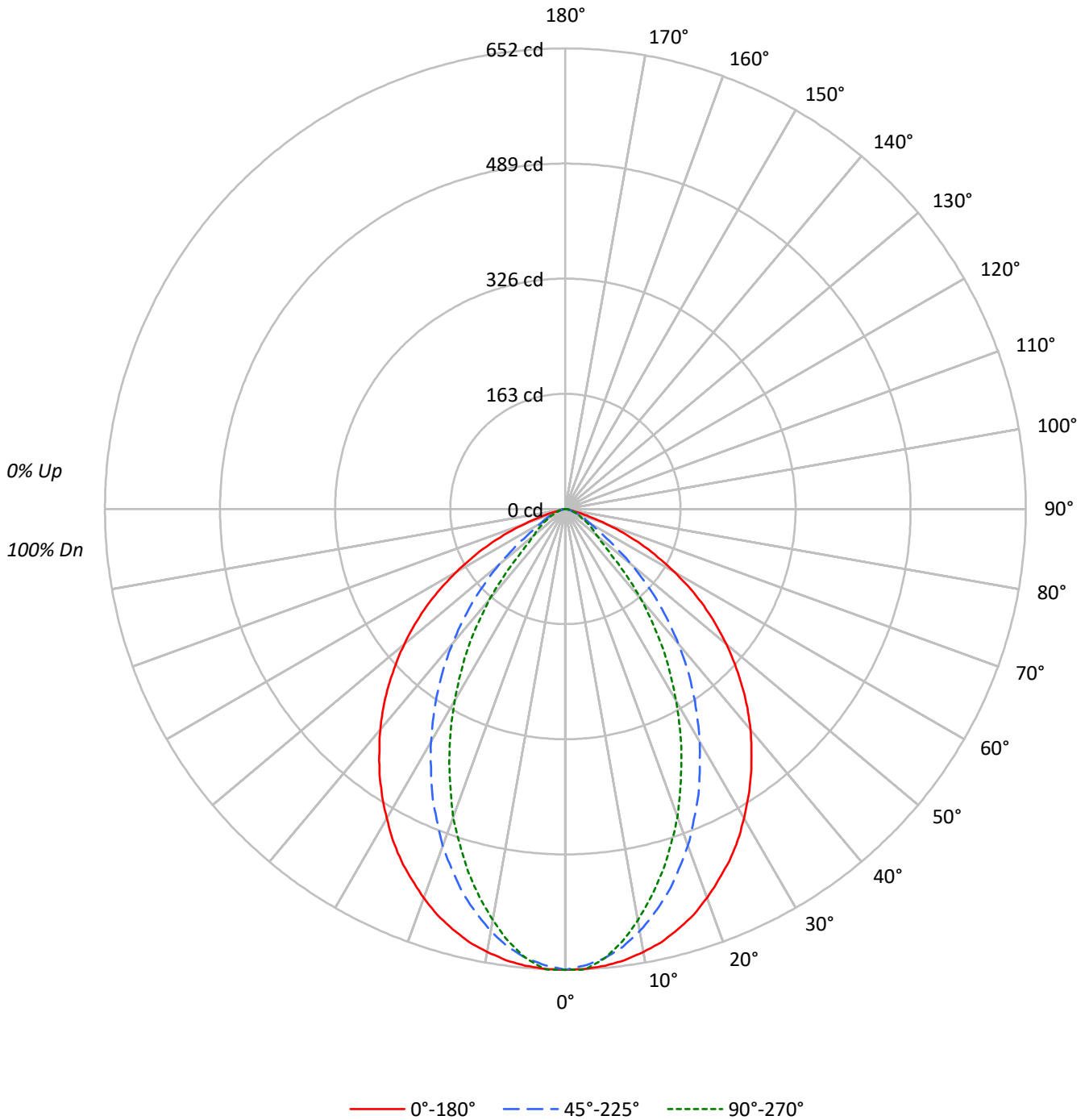
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 943.6 lumens
Efficiency: N/A
Efficacy: 36.6 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): 25.8
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	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°	4493	4493	4493
5°	4487	4412	4412
10°	4451	4243	4133
15°	4391	4007	3788
20°	4294	3718	3402
25°	4176	3388	2954
30°	4021	3025	2492
35°	3854	2648	2021
40°	3666	2235	1497
45°	3447	1793	905
50°	3188	1314	621
55°	2876	807	517
60°	2443	548	410
65°	1932	419	324
70°	1218	300	268
75°	396	221	221
80°	131	163	198
85°	63	134	134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3447 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	6.4
10°-20°	159.4	16.9
20°-30°	209.6	22.2
30°-40°	206.0	21.8
40°-50°	155.8	16.5
50°-60°	94.5	10.0
60°-70°	44.6	4.7
70°-80°	11.6	1.2
80°-90°	1.7	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°	429.3	45.5
0°-40°	635.3	67.3
0°-60°	885.6	93.9
0°-90°	943.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	943.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	649	648	638	639	638	62
15°	616	599	562	540	531	173
25°	550	508	446	405	389	253
35°	458	397	315	260	240	286
45°	354	279	184	117	93	273
55°	240	164	67	46	43	213
65°	119	60	26	22	20	117
75°	15	10	8	8	8	23
85°	1	1	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.5	652.5	652.5	652.5	652.5
2.5°	651.6	651.6	646.7	652.5	652.5
5°	649.2	647.5	638.4	639.2	638.4
7.5°	644.2	640.9	625.1	621.0	617.6
10°	636.7	630.1	606.9	596.9	591.1
12.5°	628.4	616.8	585.3	571.2	562.1
15°	616.0	599.4	562.1	540.5	531.4
17.5°	602.7	578.7	534.7	509.0	497.4
20°	586.1	558.0	507.4	475.9	464.3
22.5°	567.9	534.7	475.9	441.1	425.3
25°	549.7	508.2	446.0	404.6	388.8
27.5°	528.9	481.7	412.0	368.9	351.5
30°	505.7	455.2	380.5	335.8	313.4
32.5°	482.5	427.8	347.4	298.5	276.1
35°	458.5	397.1	315.0	259.5	240.4
37.5°	432.8	368.1	281.9	223.8	201.5
40°	407.9	339.1	248.7	187.4	166.6
42.5°	381.4	310.1	215.6	151.7	128.5
45°	354.0	278.6	184.1	116.9	92.9
47.5°	325.8	250.4	152.5	86.2	69.6
50°	297.6	220.5	122.7	63.8	58.0
52.5°	268.6	191.5	92.9	53.1	50.6
55°	239.6	164.2	67.2	45.6	43.1
57.5°	209.8	134.3	50.6	39.0	36.5
60°	177.4	107.8	39.8	32.3	29.8
62.5°	147.6	84.6	32.3	26.5	24.9
65°	118.6	60.5	25.7	21.6	19.9
67.5°	88.7	40.6	19.9	16.6	16.6
70°	60.5	26.5	14.9	13.3	13.3
72.5°	36.5	15.8	10.8	10.8	10.8
75°	14.9	9.9	8.3	8.3	8.3
77.5°	5.0	5.8	5.8	6.6	6.6
80°	3.3	3.3	4.1	5.0	5.0
82.5°	1.7	2.5	2.5	3.3	3.3
85°	0.8	0.8	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)