

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: P1061834

Luminaire Tested: S125RDR-S850D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S850D950-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

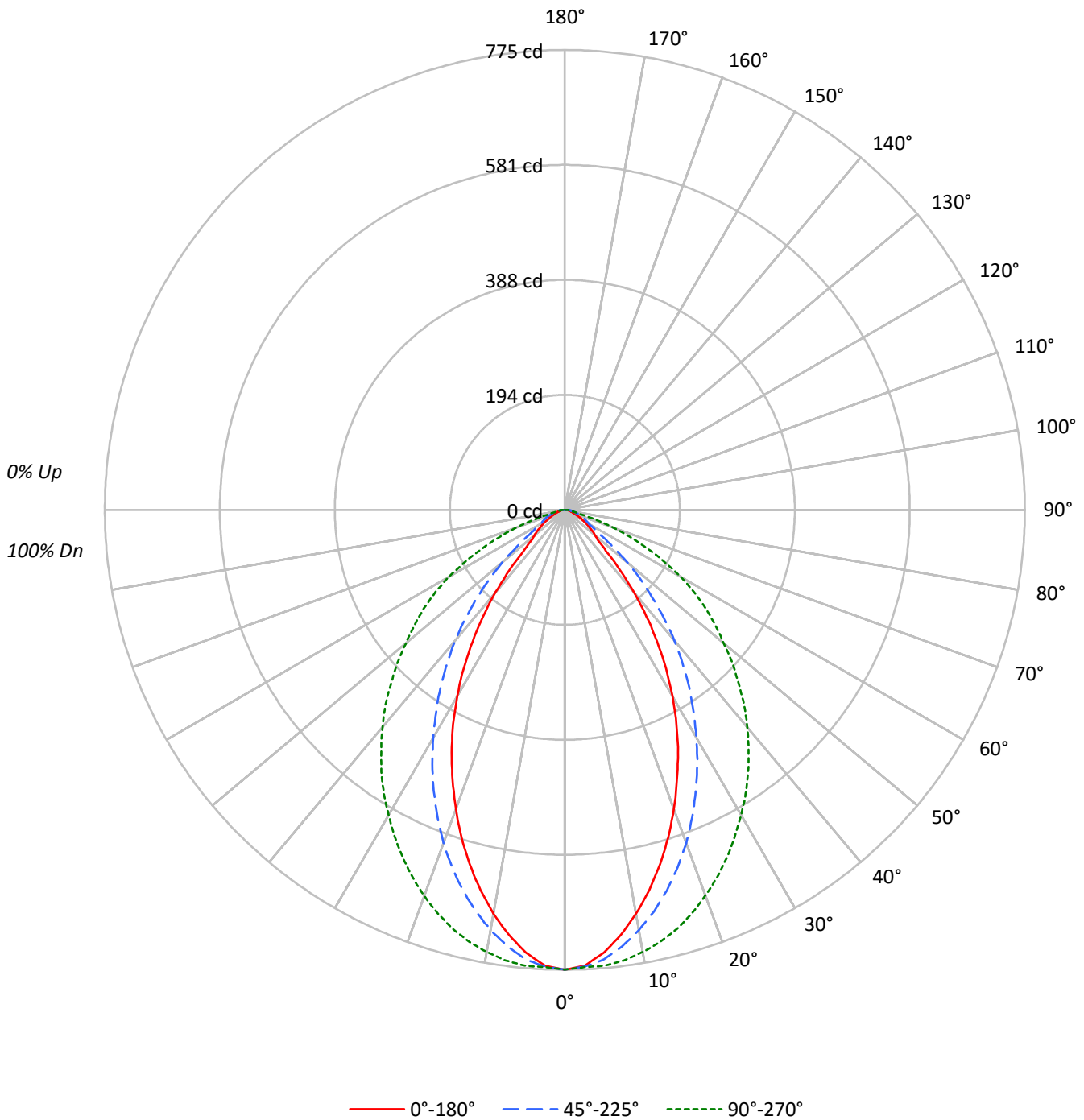
Lumens per Lamp: N/A
Luminaire Lumens: 1118.9 lumens
Efficiency: N/A
Efficacy: 43.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061834

CATALOG NUMBER: S125RDR-S850D950-X4F0-XX-UDD-SVL-S

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	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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																												
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																												
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70																												
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																												
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56																												
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51																												
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																												
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																												
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39																												
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5335	5335	5335
5°	5178	5254	5330
10°	4833	5025	5289
15°	4409	4731	5209
20°	3933	4378	5072
25°	3429	3966	4909
30°	2880	3523	4721
35°	2272	3067	4528
40°	1628	2578	4296
45°	958	2022	4028
50°	709	1457	3742
55°	595	882	3476
60°	481	646	3101
65°	375	614	2486
70°	314	574	1685
75°	293	513	734
80°	293	511	476
85°	363	656	506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4028 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	6.4
10°-20°	187.6	16.8
20°-30°	245.1	21.9
30°-40°	238.6	21.3
40°-50°	178.3	15.9
50°-60°	110.6	9.9
60°-70°	58.1	5.2
70°-80°	21.2	1.9
80°-90°	8.0	0.7
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°	504.1	45.1
0°-40°	742.7	66.4
0°-60°	1031.7	92.2
0°-90°	1118.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1118.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	749	759	760	765	771	70
15°	619	637	664	704	731	173
25°	451	474	522	593	646	206
35°	270	300	365	462	539	168
45°	98	129	208	324	414	83
55°	50	52	74	191	290	45
65°	23	25	38	81	153	24
75°	11	13	19	21	28	12
85°	5	8	8	8	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.9	774.9	774.9	774.9	774.9
2.5°	768.5	774.9	770.3	770.3	771.2
5°	749.2	759.3	760.2	764.8	771.2
7.5°	722.5	734.5	741.8	755.6	765.7
10°	691.3	705.1	718.8	741.8	756.5
12.5°	656.3	672.9	693.1	724.4	745.5
15°	618.6	637.0	663.7	704.1	730.8
17.5°	579.1	598.4	631.5	680.2	712.4
20°	536.8	558.0	597.5	652.7	692.2
22.5°	493.6	517.5	560.7	623.2	670.1
25°	451.3	474.3	522.1	592.9	646.2
27.5°	407.2	431.1	483.5	561.7	620.5
30°	362.2	387.9	443.1	529.5	593.8
32.5°	317.1	343.8	403.5	496.4	567.2
35°	270.3	299.7	364.9	462.4	538.7
37.5°	226.1	257.4	325.4	427.4	508.3
40°	181.1	213.3	286.8	393.4	478.0
42.5°	137.0	170.1	247.3	358.5	447.7
45°	98.4	128.7	207.7	324.5	413.7
47.5°	75.4	92.8	171.0	289.6	383.3
50°	66.2	71.7	136.0	255.5	349.3
52.5°	57.9	61.6	101.1	222.5	319.9
55°	49.6	52.4	73.5	191.2	289.6
57.5°	42.3	45.0	56.1	162.7	258.3
60°	34.9	37.7	46.9	134.2	225.2
62.5°	29.4	30.3	42.3	107.6	188.4
65°	23.0	24.8	37.7	80.9	152.6
67.5°	19.3	20.2	33.1	57.9	117.7
70°	15.6	16.5	28.5	40.4	83.7
72.5°	13.8	13.8	23.9	29.4	53.3
75°	11.0	12.9	19.3	21.1	27.6
77.5°	9.2	12.9	16.5	15.6	14.7
80°	7.4	12.0	12.9	12.9	12.0
82.5°	6.4	10.1	11.0	10.1	9.2
85°	4.6	8.3	8.3	8.3	6.4
87.5°	3.7	7.4	6.4	6.4	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)