

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: P1061816

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061816
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-S850D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

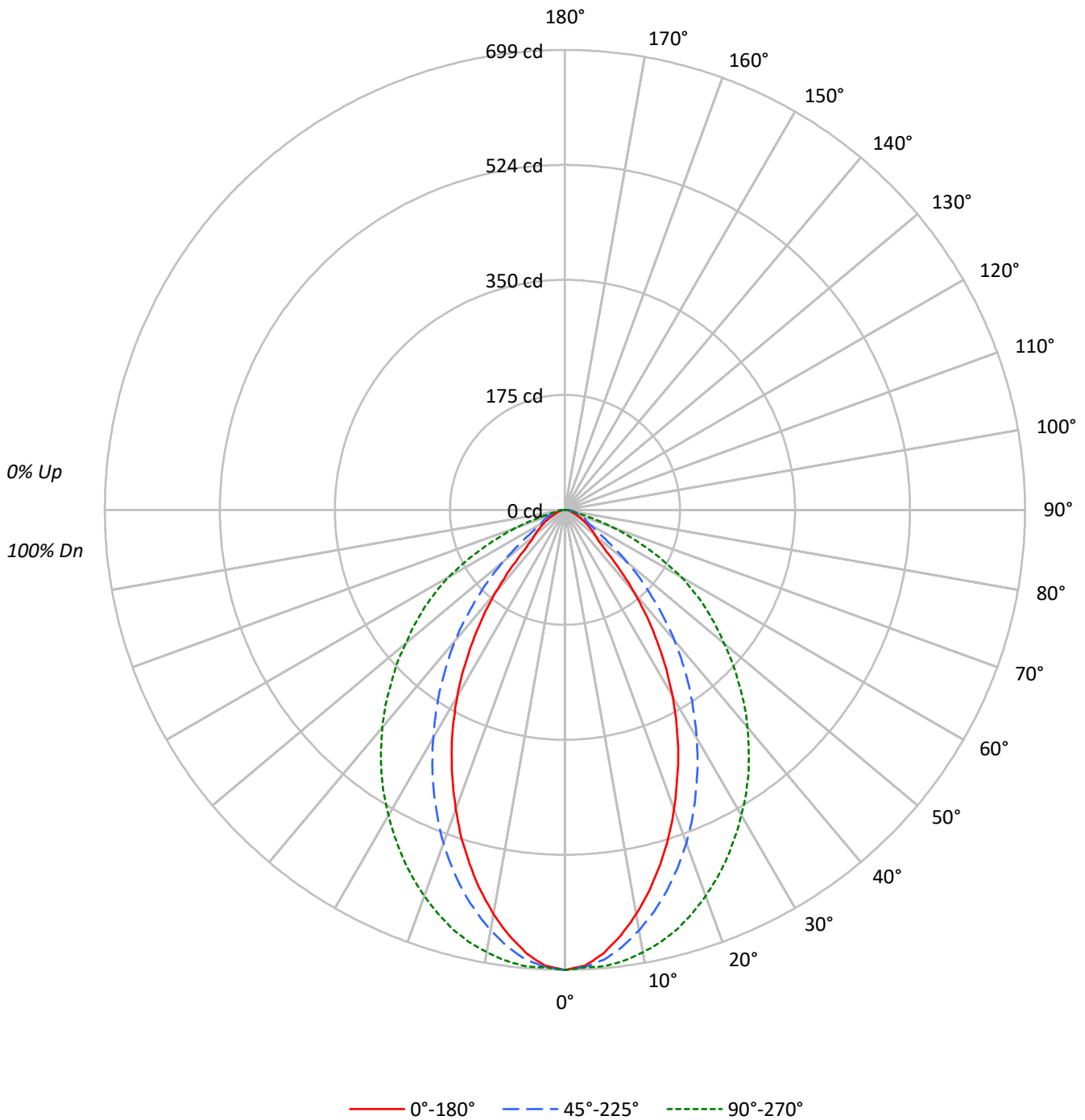
Lumens per Lamp: N/A
Luminaire Lumens: 1009.9 lumens
Efficiency: N/A
Efficacy: 39.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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°	4816	4816	4816
5°	4673	4742	4811
10°	4362	4536	4774
15°	3980	4270	4702
20°	3550	3952	4577
25°	3094	3580	4431
30°	2599	3179	4261
35°	2050	2769	4087
40°	1469	2326	3877
45°	865	1826	3635
50°	639	1315	3377
55°	538	797	3137
60°	434	582	2800
65°	337	554	2243
70°	284	517	1520
75°	266	463	662
80°	262	460	428
85°	324	592	458

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3635 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	6.4
10°-20°	169.3	16.8
20°-30°	221.2	21.9
30°-40°	215.4	21.3
40°-50°	160.9	15.9
50°-60°	99.8	9.9
60°-70°	52.4	5.2
70°-80°	19.1	1.9
80°-90°	7.2	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°	455.0	45.1
0°-40°	670.3	66.4
0°-60°	931.1	92.2
0°-90°	1009.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	676	685	686	690	696	63
15°	558	575	599	636	660	156
25°	407	428	471	535	583	186
35°	244	270	329	417	486	152
45°	89	116	188	293	373	75
55°	45	47	66	173	261	40
65°	21	22	34	73	138	22
75°	10	12	17	19	25	11
85°	4	8	8	8	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	699.4	699.4	699.4	699.4	699.4
2.5°	693.6	699.4	695.2	695.2	696.1
5°	676.1	685.3	686.1	690.2	696.1
7.5°	652.1	662.9	669.5	682.0	691.1
10°	623.9	636.3	648.8	669.5	682.8
12.5°	592.4	607.3	625.5	653.7	672.8
15°	558.3	574.9	599.0	635.5	659.6
17.5°	522.7	540.1	570.0	613.9	643.0
20°	484.5	503.6	539.3	589.0	624.7
22.5°	445.5	467.1	506.1	562.5	604.8
25°	407.3	428.1	471.2	535.1	583.2
27.5°	367.5	389.1	436.4	506.9	560.0
30°	326.9	350.1	399.9	477.9	535.9
32.5°	286.2	310.3	364.2	448.0	511.9
35°	243.9	270.5	329.4	417.3	486.2
37.5°	204.1	232.3	293.7	385.8	458.8
40°	163.4	192.5	258.8	355.1	431.4
42.5°	123.6	153.5	223.2	323.6	404.0
45°	88.8	116.1	187.5	292.9	373.3
47.5°	68.0	83.8	154.3	261.3	346.0
50°	59.7	64.7	122.8	230.6	315.3
52.5°	52.3	55.6	91.3	200.8	288.7
55°	44.8	47.3	66.4	172.6	261.3
57.5°	38.2	40.7	50.6	146.8	233.1
60°	31.5	34.0	42.3	121.1	203.3
62.5°	26.5	27.4	38.2	97.1	170.1
65°	20.7	22.4	34.0	73.0	137.7
67.5°	17.4	18.3	29.9	52.3	106.2
70°	14.1	14.9	25.7	36.5	75.5
72.5°	12.4	12.4	21.6	26.5	48.1
75°	10.0	11.6	17.4	19.1	24.9
77.5°	8.3	11.6	14.9	14.1	13.3
80°	6.6	10.8	11.6	11.6	10.8
82.5°	5.8	9.1	10.0	9.1	8.3
85°	4.1	7.5	7.5	7.5	5.8
87.5°	3.3	6.6	5.8	5.8	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)