

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: P1061817

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
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-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

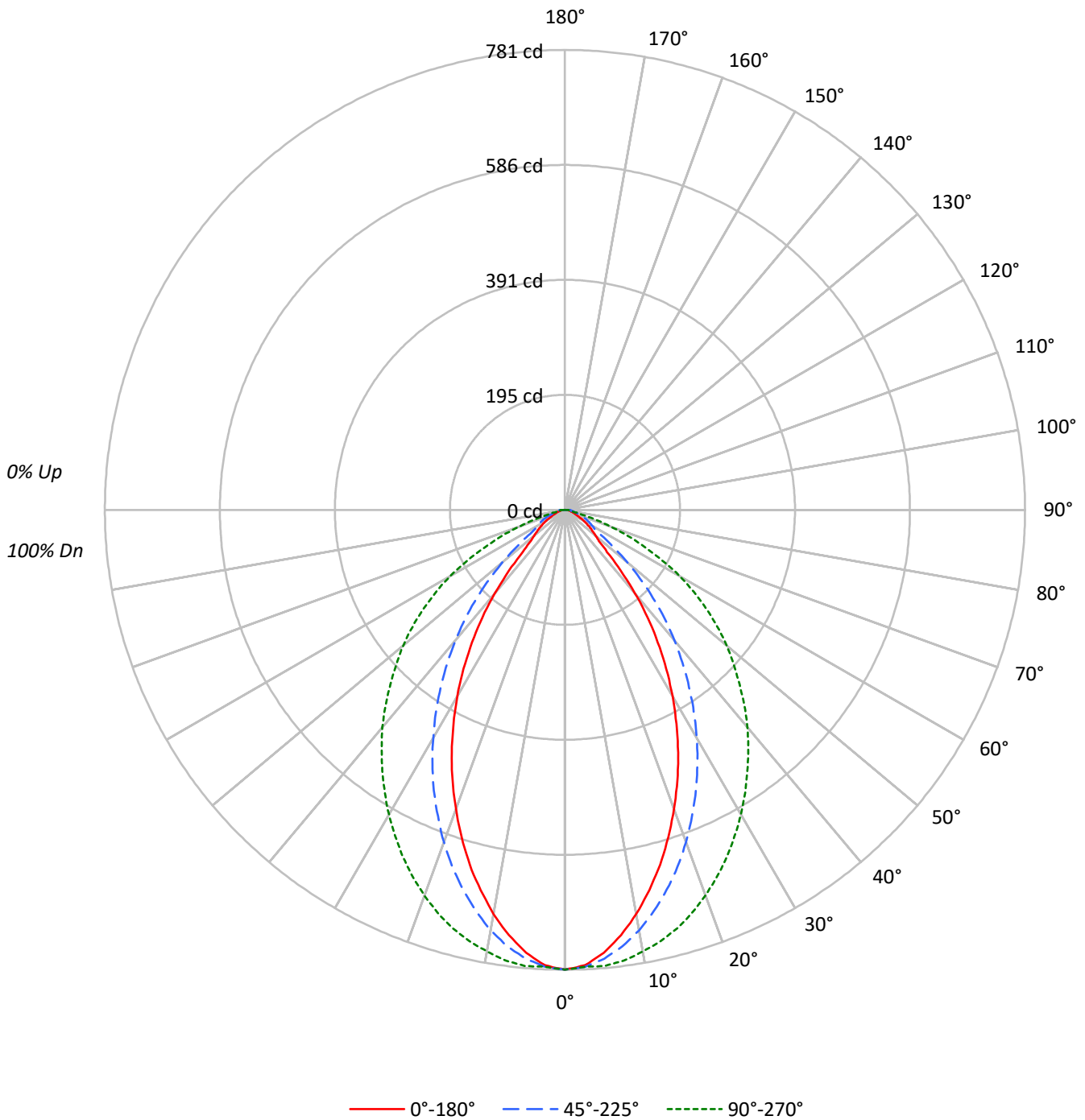
Lumens per Lamp: N/A
Luminaire Lumens: 1131.0 lumens
Efficiency: N/A
Efficacy: 43.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061817

CATALOG NUMBER: S125RDR-S850D935-X4F0-XX-UDD-SVL-W

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	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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5376	5376	5376
5°	5219	5287	5374
10°	4873	5070	5325
15°	4448	4762	5246
20°	3964	4401	5107
25°	3454	3997	4942
30°	2903	3555	4750
35°	2309	3090	4541
40°	1663	2596	4333
45°	985	2060	4080
50°	728	1466	3840
55°	617	906	3516
60°	503	731	3097
65°	393	676	2447
70°	334	584	1637
75°	309	508	662
80°	329	527	460
85°	395	790	521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4080 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	6.4
10°-20°	189.0	16.7
20°-30°	247.0	21.8
30°-40°	240.6	21.3
40°-50°	180.5	16.0
50°-60°	113.2	10.0
60°-70°	58.9	5.2
70°-80°	21.3	1.9
80°-90°	8.5	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°	508.0	44.9
0°-40°	748.6	66.2
0°-60°	1042.3	92.2
0°-90°	1131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	755	765	765	771	778	70
15°	624	642	668	709	736	174
25°	455	480	526	597	650	208
35°	275	304	368	466	540	171
45°	101	131	212	327	419	85
55°	51	54	76	198	293	46
65°	24	26	42	80	150	25
75°	12	16	19	20	25	13
85°	5	8	10	9	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.8	780.8	780.8	780.8	780.8
2.5°	774.2	781.6	776.7	776.7	776.7
5°	755.1	765.0	765.0	770.8	777.5
7.5°	728.5	740.1	747.6	761.7	771.7
10°	697.0	711.1	725.2	748.4	761.7
12.5°	661.3	677.9	697.8	730.2	750.1
15°	624.0	642.2	668.0	709.4	736.0
17.5°	583.3	604.9	635.6	685.4	717.7
20°	541.0	562.6	600.7	657.2	697.0
22.5°	498.7	521.9	563.4	627.3	674.6
25°	454.7	479.6	526.1	597.4	650.5
27.5°	409.9	435.6	487.1	566.7	624.0
30°	365.1	391.6	447.2	533.5	597.4
32.5°	320.3	348.5	407.4	499.5	569.2
35°	274.7	303.7	367.6	465.5	540.2
37.5°	230.7	259.7	327.8	430.6	511.1
40°	185.0	216.6	288.8	395.8	482.1
42.5°	140.2	172.6	249.8	360.9	450.6
45°	101.2	131.1	211.6	326.9	419.0
47.5°	78.0	94.6	172.6	292.1	388.3
50°	68.0	73.0	136.9	259.7	358.5
52.5°	58.9	62.2	102.9	229.8	326.1
55°	51.4	53.9	75.5	197.5	292.9
57.5°	43.1	46.5	59.7	166.0	258.9
60°	36.5	38.2	53.1	136.9	224.9
62.5°	29.9	31.5	47.3	107.9	186.7
65°	24.1	25.7	41.5	79.7	150.2
67.5°	19.9	20.7	34.9	56.4	115.3
70°	16.6	17.4	29.0	39.0	81.3
72.5°	14.1	16.6	23.2	28.2	51.4
75°	11.6	15.8	19.1	19.9	24.9
77.5°	10.0	14.9	15.8	15.8	14.1
80°	8.3	12.4	13.3	12.4	11.6
82.5°	6.6	10.0	10.8	10.8	9.1
85°	5.0	8.3	10.0	9.1	6.6
87.5°	3.3	7.5	8.3	7.5	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)