

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: P1061801

Luminaire Tested: S125RDR-S850D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S850D927-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

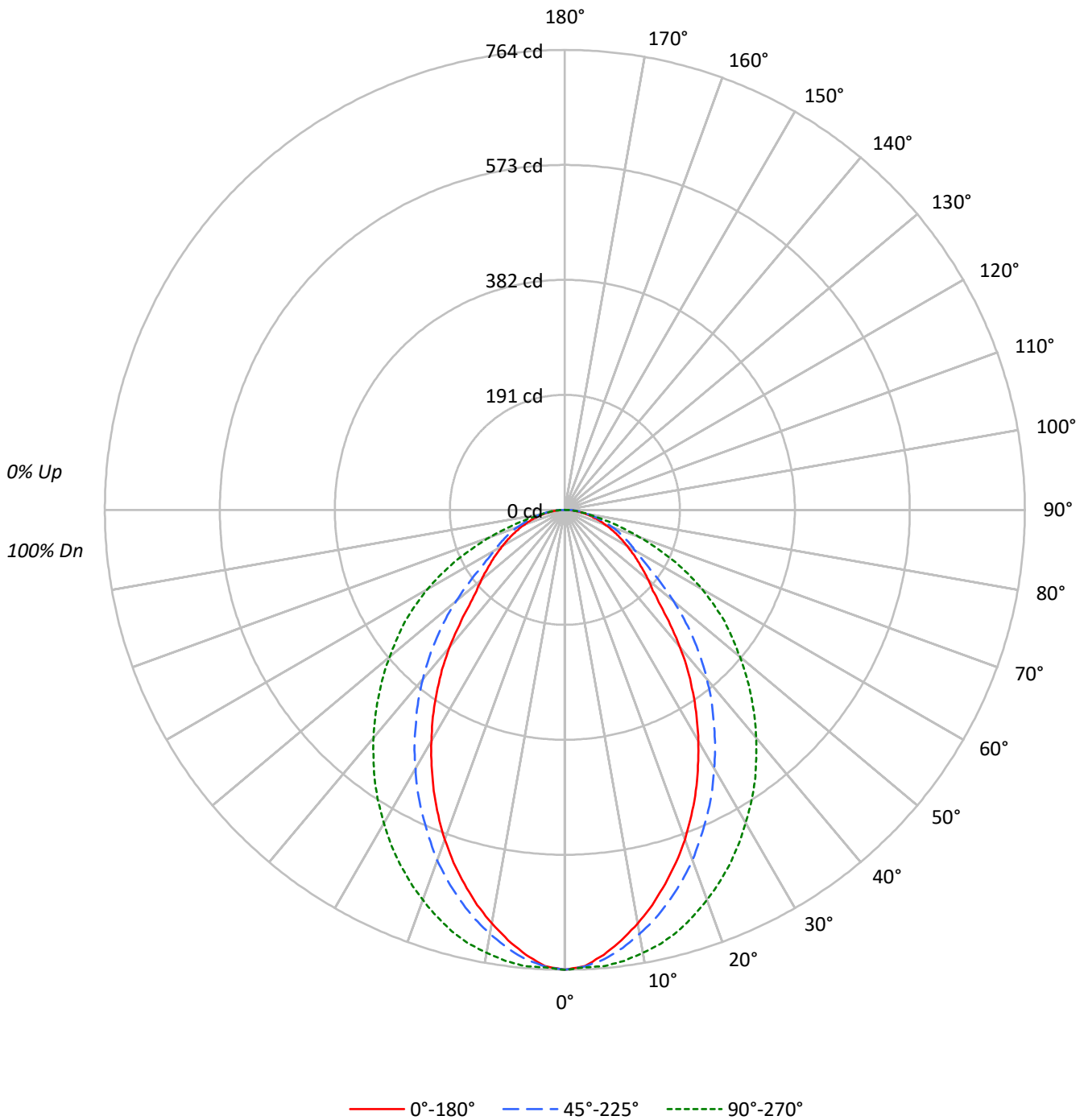
Lumens per Lamp: N/A
Luminaire Lumens: 1432.0 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061801

CATALOG NUMBER: S125RDR-S850D927-X4F0-XX-UDD-WVL-S

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44				44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	41	35	59	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°	5260	5260	5260
5°	5127	5180	5258
10°	4877	5000	5223
15°	4586	4787	5168
20°	4272	4541	5055
25°	3913	4250	4928
30°	3525	3943	4775
35°	3118	3624	4625
40°	2675	3300	4445
45°	2185	2935	4258
50°	1938	2517	4063
55°	1777	2089	3893
60°	1639	1849	3626
65°	1530	1777	3232
70°	1429	1689	2643
75°	1319	1583	1950
80°	1241	1483	1423
85°	1145	1446	1209

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4258 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	4.9
10°-20°	190.4	13.3
20°-30°	261.7	18.3
30°-40°	277.4	19.4
40°-50°	242.1	16.9
50°-60°	183.9	12.8
60°-70°	123.2	8.6
70°-80°	63.5	4.4
80°-90°	19.1	1.3
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°	522.8	36.5
0°-40°	800.2	55.9
0°-60°	1226.2	85.6
0°-90°	1432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	742	749	749	755	761	69
15°	643	656	672	701	725	180
25°	515	531	559	606	649	236
35°	371	392	431	492	550	231
45°	224	246	301	373	437	177
55°	148	153	174	256	324	133
65°	94	96	109	146	198	93
75°	50	53	60	63	73	53
85°	14	18	18	17	15	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.9	763.9	763.9	763.9	763.9
2.5°	758.6	763.9	759.3	759.3	760.8
5°	741.8	749.4	749.4	754.7	760.8
7.5°	721.2	729.6	734.1	746.3	755.5
10°	697.5	706.7	715.1	733.4	747.1
12.5°	672.3	682.2	695.2	718.9	738.0
15°	643.3	655.5	671.6	701.3	725.0
17.5°	614.3	626.5	646.4	681.5	708.2
20°	583.0	596.0	619.7	657.8	689.9
22.5°	549.5	564.0	589.1	632.6	670.0
25°	515.1	531.1	559.4	605.9	648.7
27.5°	479.2	498.3	528.9	578.5	625.8
30°	443.4	462.5	496.0	550.2	600.6
32.5°	407.5	428.1	464.7	522.0	576.2
35°	370.9	392.3	431.2	492.2	550.2
37.5°	335.0	356.4	399.9	463.2	522.0
40°	297.6	319.8	367.1	433.5	494.5
42.5°	259.5	283.1	334.3	402.9	466.3
45°	224.4	246.5	301.4	373.2	437.3
47.5°	198.4	212.9	268.6	342.6	409.0
50°	180.9	188.5	235.0	312.9	379.3
52.5°	163.3	169.4	203.8	282.4	351.0
55°	148.0	152.6	174.0	255.7	324.3
57.5°	132.8	137.4	151.1	228.9	293.0
60°	119.0	122.9	134.3	200.7	263.3
62.5°	106.1	109.1	121.3	174.0	231.2
65°	93.9	96.2	109.1	145.8	198.4
67.5°	81.7	83.9	96.9	119.0	163.3
70°	71.0	71.7	83.9	96.9	131.3
72.5°	60.3	61.1	71.0	78.6	100.7
75°	49.6	52.7	59.5	63.3	73.3
77.5°	40.4	44.3	48.1	49.6	49.6
80°	31.3	35.9	37.4	37.4	35.9
82.5°	22.9	26.7	27.5	25.9	24.4
85°	14.5	18.3	18.3	16.8	15.3
87.5°	6.9	9.9	9.9	9.2	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)