

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: P1061690

Luminaire Tested: S125RDR-S610D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061690
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-S610D835-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, 80 CRI LEDS
Ballast/Driver: -

Summary

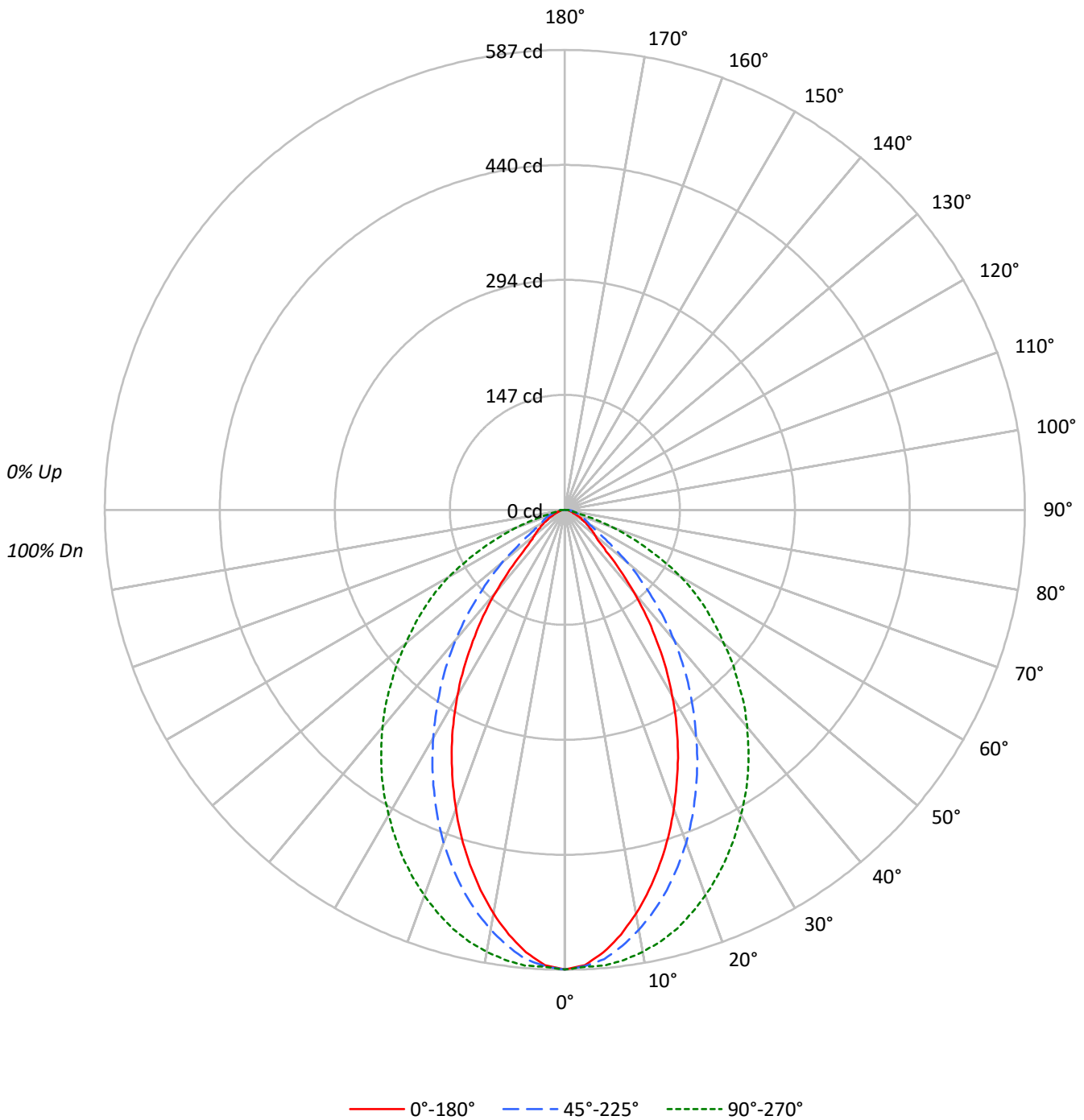
Lumens per Lamp: N/A
Luminaire Lumens: 847.0 lumens
Efficiency: N/A
Efficacy: 43.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	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°	4039	4039	4039
5°	3920	3978	4035
10°	3659	3804	4004
15°	3338	3581	3943
20°	2978	3314	3839
25°	2596	3002	3716
30°	2180	2667	3574
35°	1720	2322	3428
40°	1232	1951	3252
45°	725	1532	3049
50°	537	1103	2832
55°	451	669	2631
60°	364	489	2348
65°	283	464	1882
70°	238	435	1274
75°	221	388	556
80°	222	385	357
85°	276	498	387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3049 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	6.4
10°-20°	142.0	16.8
20°-30°	185.6	21.9
30°-40°	180.6	21.3
40°-50°	135.0	15.9
50°-60°	83.7	9.9
60°-70°	44.0	5.2
70°-80°	16.0	1.9
80°-90°	6.1	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°	381.6	45.1
0°-40°	562.2	66.4
0°-60°	780.9	92.2
0°-90°	847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	587	587	587	587	587	
5°	567	575	576	579	584	53
15°	468	482	502	533	553	131
25°	342	359	395	449	489	156
35°	205	227	276	350	408	127
45°	74	97	157	246	313	63
55°	38	40	56	145	219	34
65°	17	19	28	61	116	18
75°	8	10	15	16	21	9
85°	4	6	6	6	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.6	586.6	586.6	586.6	586.6
2.5°	581.7	586.6	583.1	583.1	583.8
5°	567.1	574.8	575.5	578.9	583.8
7.5°	546.9	556.0	561.5	572.0	579.6
10°	523.3	533.7	544.1	561.5	572.7
12.5°	496.8	509.3	524.7	548.3	564.3
15°	468.3	482.2	502.4	533.0	553.2
17.5°	438.4	453.0	478.0	514.9	539.3
20°	406.4	422.4	452.3	494.0	524.0
22.5°	373.7	391.8	424.5	471.8	507.3
25°	341.7	359.0	395.2	448.8	489.2
27.5°	308.3	326.3	366.0	425.2	469.7
30°	274.2	293.6	335.4	400.8	449.5
32.5°	240.1	260.2	305.5	375.7	429.3
35°	204.6	226.8	276.2	350.0	407.8
37.5°	171.2	194.8	246.3	323.6	384.8
40°	137.1	161.4	217.1	297.8	361.8
42.5°	103.7	128.7	187.2	271.4	338.9
45°	74.5	97.4	157.3	245.6	313.1
47.5°	57.1	70.3	129.4	219.2	290.2
50°	50.1	54.3	103.0	193.4	264.4
52.5°	43.8	46.6	76.5	168.4	242.1
55°	37.6	39.7	55.7	144.7	219.2
57.5°	32.0	34.1	42.4	123.2	195.5
60°	26.4	28.5	35.5	101.6	170.5
62.5°	22.3	23.0	32.0	81.4	142.6
65°	17.4	18.8	28.5	61.2	115.5
67.5°	14.6	15.3	25.0	43.8	89.1
70°	11.8	12.5	21.6	30.6	63.3
72.5°	10.4	10.4	18.1	22.3	40.4
75°	8.3	9.7	14.6	16.0	20.9
77.5°	7.0	9.7	12.5	11.8	11.1
80°	5.6	9.0	9.7	9.7	9.0
82.5°	4.9	7.7	8.3	7.7	7.0
85°	3.5	6.3	6.3	6.3	4.9
87.5°	2.8	5.6	4.9	4.9	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)