

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: P1061705

Luminaire Tested: S125RDR-S610D850-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D850-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

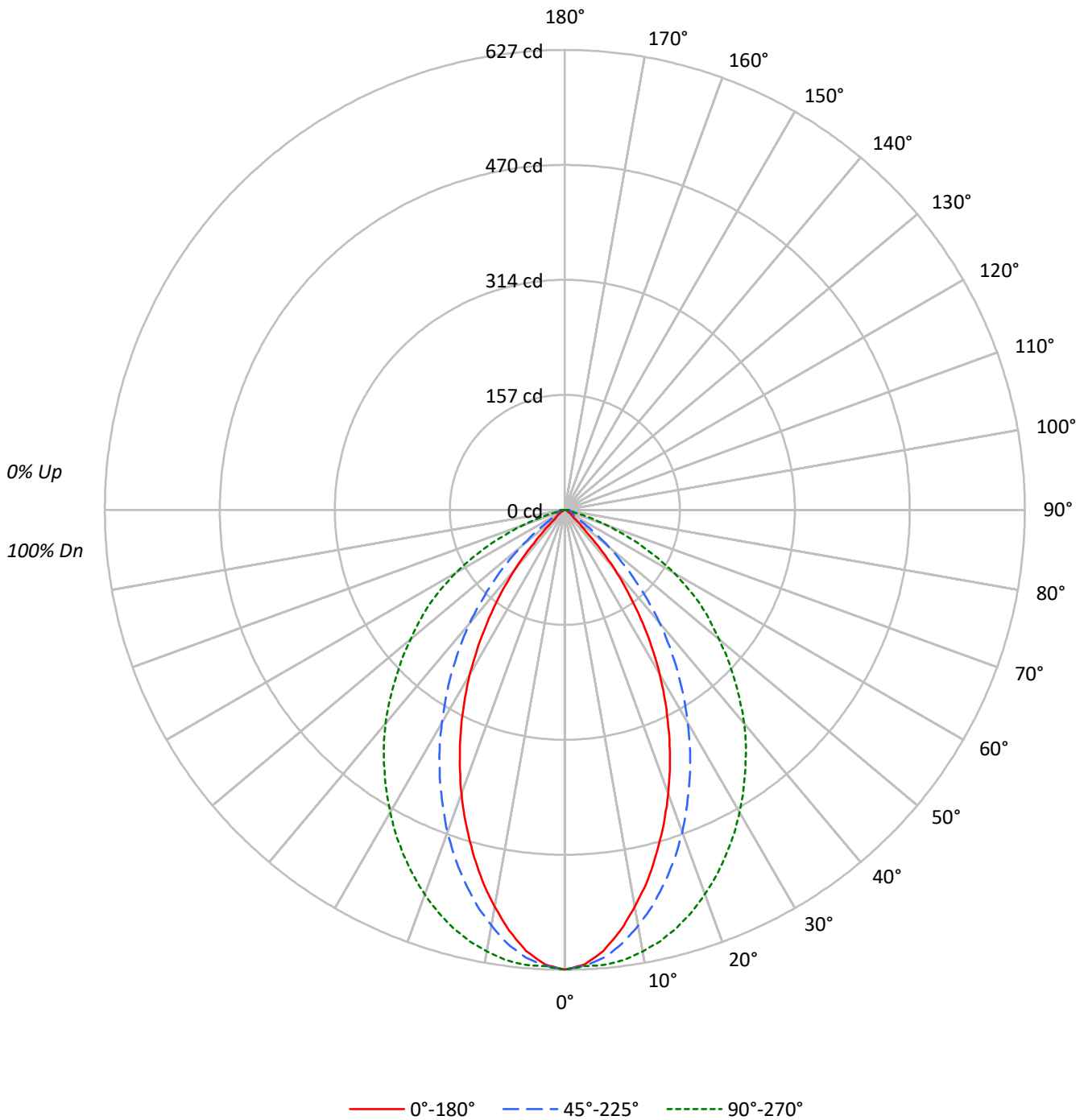
Lumens per Lamp: N/A
Luminaire Lumens: 806.1 lumens
Efficiency: N/A
Efficacy: 41.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4315	4315	4315
5°	4171	4235	4305
10°	3842	4026	4274
15°	3449	3747	4203
20°	3020	3427	4089
25°	2550	3061	3946
30°	2056	2663	3786
35°	1511	2244	3607
40°	944	1810	3420
45°	353	1322	3179
50°	165	827	2935
55°	120	343	2714
60°	85	180	2349
65°	51	213	1861
70°	46	248	1182
75°	61	247	370
80°	91	305	274
85°	182	490	363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3179 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	7.1
10°-20°	148.8	18.5
20°-30°	189.5	23.5
30°-40°	176.4	21.9
40°-50°	120.9	15.0
50°-60°	66.6	8.3
60°-70°	31.5	3.9
70°-80°	9.9	1.2
80°-90°	5.1	0.6
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°	395.8	49.1
0°-40°	572.2	71.0
0°-60°	759.6	94.2
0°-90°	806.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	806.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	604	611	613	617	623	56
15°	484	499	526	565	590	135
25°	336	357	403	468	519	153
35°	180	205	267	355	429	111
45°	36	61	136	241	326	35
55°	10	12	29	134	226	9
65°	3	4	13	49	114	4
75°	2	4	9	10	14	2
85°	2	5	6	5	5	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.7	626.7	626.7	626.7	626.7
2.5°	620.5	626.7	622.1	622.1	622.8
5°	603.5	611.3	612.8	617.4	622.8
7.5°	578.9	588.9	596.6	609.7	619.0
10°	549.5	561.9	575.8	597.4	611.3
12.5°	518.7	531.8	552.6	582.7	602.0
15°	483.9	499.4	525.6	565.0	589.7
17.5°	448.4	465.4	497.8	544.1	575.0
20°	412.1	429.9	467.7	519.4	558.0
22.5°	374.3	393.6	435.3	494.0	539.5
25°	335.7	356.6	402.9	467.7	519.4
27.5°	297.1	318.8	369.7	440.7	498.6
30°	258.6	280.9	335.0	412.9	476.2
32.5°	219.2	243.9	301.0	385.1	453.0
35°	179.8	205.3	267.0	355.0	429.1
37.5°	141.2	167.5	233.9	326.5	405.2
40°	105.0	131.2	201.4	297.9	380.5
42.5°	67.9	95.7	167.5	268.6	353.5
45°	36.3	61.0	135.8	240.8	326.5
47.5°	19.3	32.4	105.7	213.0	301.0
50°	15.4	17.8	77.2	185.2	274.0
52.5°	12.3	13.9	49.4	156.7	250.1
55°	10.0	11.6	28.6	134.3	226.1
57.5°	7.7	9.3	16.2	111.9	198.4
60°	6.2	6.9	13.1	89.5	170.6
62.5°	3.9	5.4	13.1	69.5	142.8
65°	3.1	3.9	13.1	49.4	114.2
67.5°	3.1	3.1	13.1	32.4	85.7
70°	2.3	2.3	12.3	20.8	58.7
72.5°	2.3	2.3	10.8	13.9	34.0
75°	2.3	3.9	9.3	10.0	13.9
77.5°	2.3	6.2	8.5	8.5	7.7
80°	2.3	6.2	7.7	6.9	6.9
82.5°	2.3	6.2	6.2	6.2	5.4
85°	2.3	5.4	6.2	5.4	4.6
87.5°	2.3	5.4	5.4	5.4	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)