

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: P1061717

Luminaire Tested: S125RDR-S610D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061717
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-S610D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

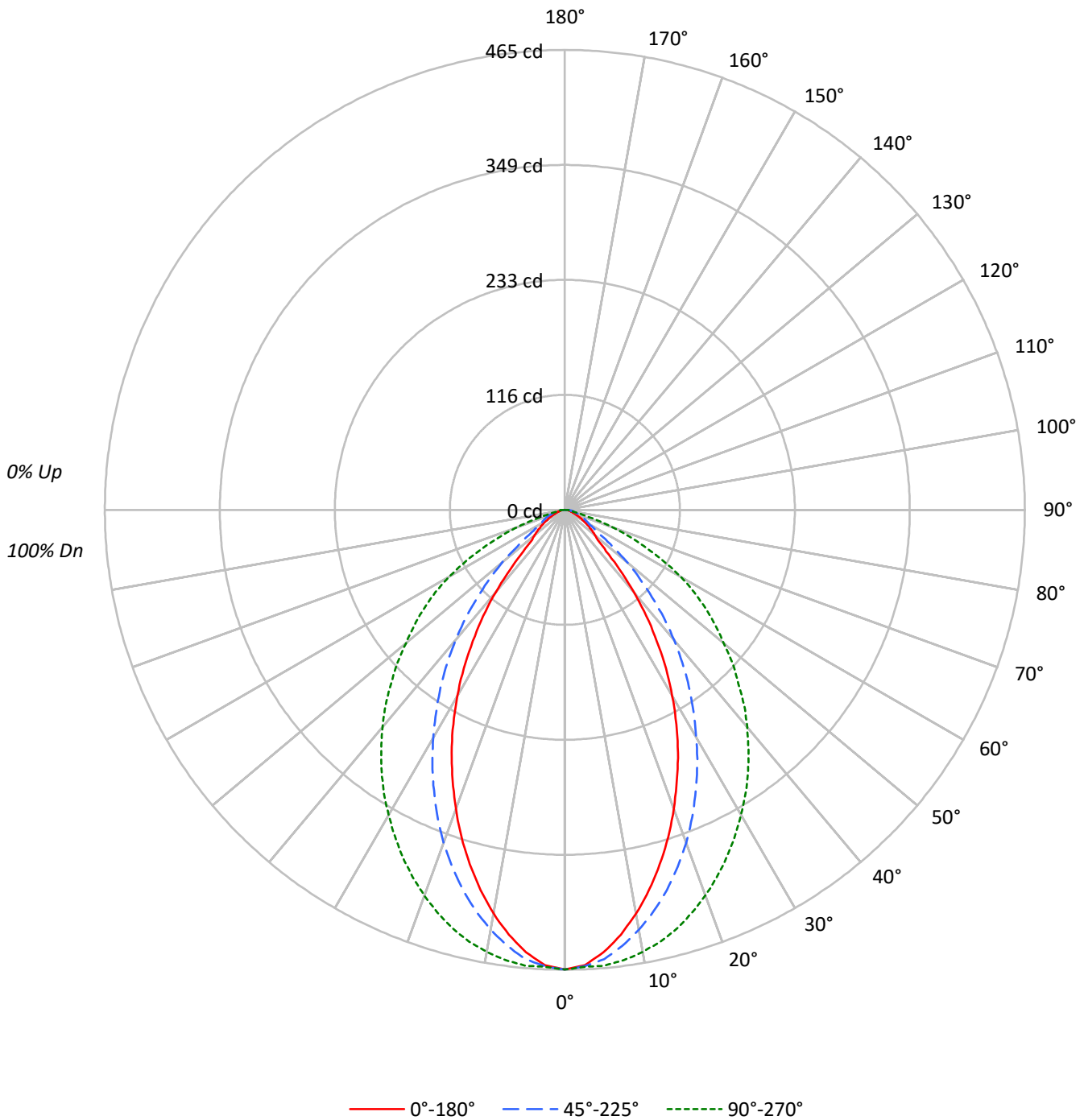
Lumens per Lamp: N/A
Luminaire Lumens: 671.0 lumens
Efficiency: N/A
Efficacy: 34.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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									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													100															
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89													89															
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79													79															
3	96	88	81	76	94	87	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	63													63															
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56													56															
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	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	41	39													39															
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36													36															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3200	3200	3200
5°	3105	3151	3197
10°	2898	3014	3172
15°	2645	2837	3124
20°	2359	2625	3041
25°	2057	2379	2944
30°	1727	2112	2831
35°	1363	1839	2715
40°	976	1546	2576
45°	574	1213	2416
50°	425	874	2244
55°	358	529	2084
60°	288	387	1859
65°	225	368	1491
70°	189	344	1011
75°	176	309	439
80°	174	305	285
85°	221	395	308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2416 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	6.4
10°-20°	112.5	16.8
20°-30°	147.0	21.9
30°-40°	143.1	21.3
40°-50°	106.9	15.9
50°-60°	66.3	9.9
60°-70°	34.8	5.2
70°-80°	12.7	1.9
80°-90°	4.8	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°	302.3	45.1
0°-40°	445.4	66.4
0°-60°	618.6	92.2
0°-90°	671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	449	455	456	459	462	42
15°	371	382	398	422	438	104
25°	271	284	313	356	388	124
35°	162	180	219	277	323	101
45°	59	77	125	195	248	50
55°	30	31	44	115	174	27
65°	14	15	23	48	92	14
75°	7	8	12	13	16	7
85°	3	5	5	5	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	464.7	464.7	464.7	464.7	464.7
2.5°	460.8	464.7	461.9	461.9	462.5
5°	449.2	455.3	455.9	458.6	462.5
7.5°	433.3	440.4	444.8	453.1	459.2
10°	414.5	422.8	431.1	444.8	453.7
12.5°	393.6	403.5	415.6	434.4	447.0
15°	371.0	382.0	398.0	422.2	438.2
17.5°	347.3	358.8	378.7	407.9	427.2
20°	321.9	334.6	358.3	391.4	415.1
22.5°	296.0	310.3	336.2	373.7	401.8
25°	270.7	284.4	313.1	355.5	387.5
27.5°	244.2	258.5	289.9	336.8	372.1
30°	217.2	232.6	265.7	317.5	356.1
32.5°	190.2	206.2	242.0	297.7	340.1
35°	162.1	179.7	218.8	277.3	323.0
37.5°	135.6	154.3	195.1	256.3	304.8
40°	108.6	127.9	172.0	235.9	286.6
42.5°	82.1	102.0	148.3	215.0	268.4
45°	59.0	77.2	124.6	194.6	248.1
47.5°	45.2	55.7	102.5	173.6	229.9
50°	39.7	43.0	81.6	153.2	209.5
52.5°	34.7	36.9	60.6	133.4	191.8
55°	29.8	31.4	44.1	114.7	173.6
57.5°	25.4	27.0	33.6	97.6	154.9
60°	20.9	22.6	28.1	80.5	135.0
62.5°	17.6	18.2	25.4	64.5	113.0
65°	13.8	14.9	22.6	48.5	91.5
67.5°	11.6	12.1	19.8	34.7	70.6
70°	9.4	9.9	17.1	24.3	50.2
72.5°	8.3	8.3	14.3	17.6	32.0
75°	6.6	7.7	11.6	12.7	16.5
77.5°	5.5	7.7	9.9	9.4	8.8
80°	4.4	7.2	7.7	7.7	7.2
82.5°	3.9	6.1	6.6	6.1	5.5
85°	2.8	5.0	5.0	5.0	3.9
87.5°	2.2	4.4	3.9	3.9	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)