

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: P1061726

Luminaire Tested: S125RDR-S610D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061726
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-S610D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

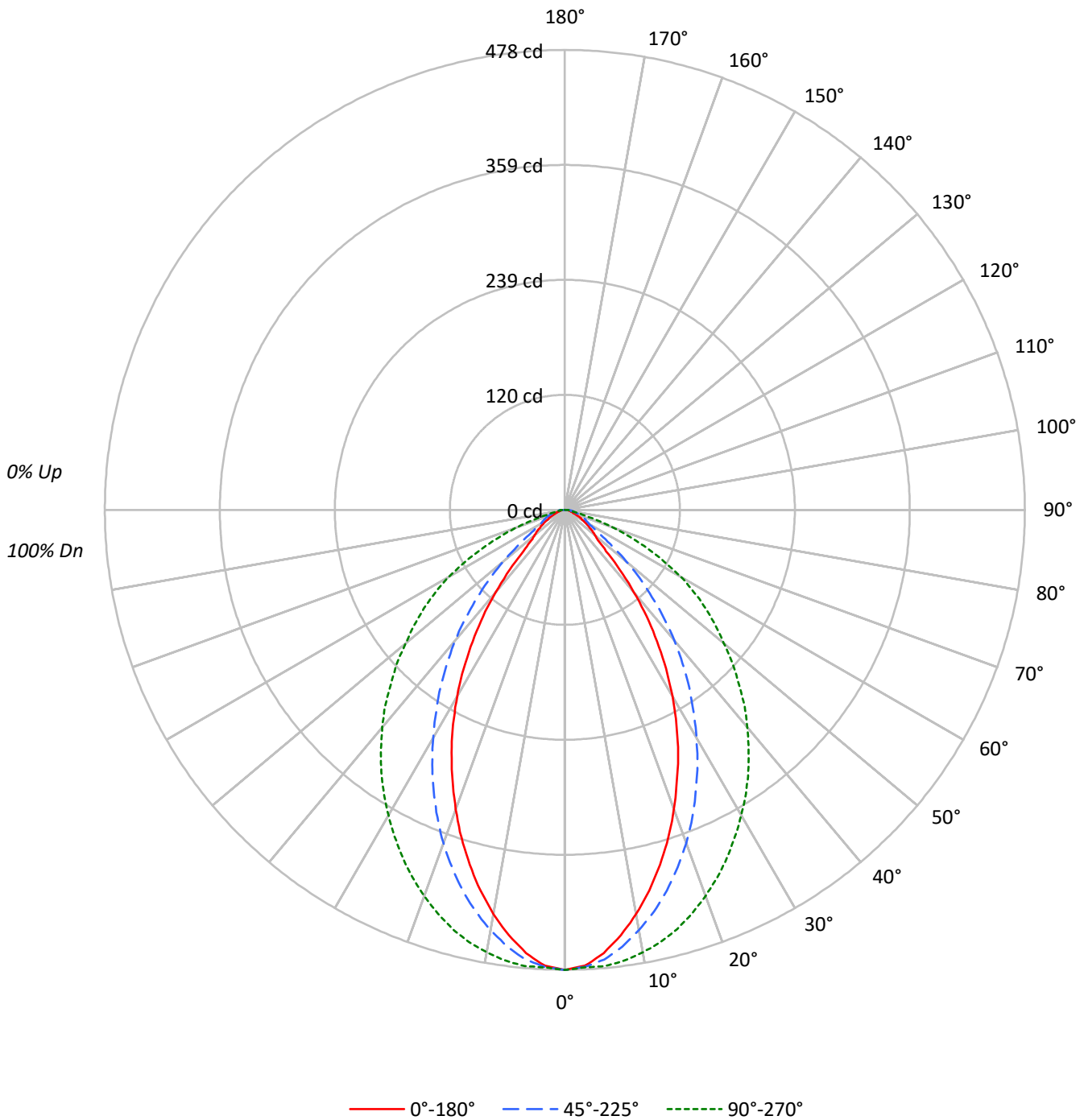
Lumens per Lamp: N/A
Luminaire Lumens: 690.5 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				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°	3293	3293	3293
5°	3196	3243	3290
10°	2983	3101	3264
15°	2722	2920	3215
20°	2427	2702	3130
25°	2116	2448	3030
30°	1777	2174	2914
35°	1402	1893	2794
40°	1005	1591	2651
45°	591	1248	2486
50°	437	900	2309
55°	367	545	2145
60°	297	398	1914
65°	231	380	1535
70°	193	354	1039
75°	181	317	452
80°	178	313	293
85°	221	403	316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2486 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	6.4
10°-20°	115.8	16.8
20°-30°	151.3	21.9
30°-40°	147.3	21.3
40°-50°	110.1	15.9
50°-60°	68.3	9.9
60°-70°	35.9	5.2
70°-80°	13.1	1.9
80°-90°	4.9	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°	311.1	45.1
0°-40°	458.4	66.4
0°-60°	636.7	92.2
0°-90°	690.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	690.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	462	469	469	472	476	43
15°	382	393	410	435	451	107
25°	278	293	322	366	399	127
35°	167	185	225	285	332	104
45°	61	79	128	200	255	51
55°	31	32	45	118	179	28
65°	14	15	23	50	94	15
75°	7	8	12	13	17	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°	478.2	478.2	478.2	478.2	478.2
2.5°	474.3	478.2	475.4	475.4	476.0
5°	462.4	468.6	469.2	472.0	476.0
7.5°	445.9	453.3	457.8	466.3	472.6
10°	426.6	435.1	443.6	457.8	466.9
12.5°	405.1	415.3	427.8	447.0	460.1
15°	381.8	393.1	409.6	434.6	451.0
17.5°	357.4	369.3	389.7	419.8	439.7
20°	331.3	344.4	368.8	402.8	427.2
22.5°	304.6	319.4	346.1	384.6	413.6
25°	278.5	292.7	322.2	365.9	398.8
27.5°	251.3	266.1	298.4	346.6	382.9
30°	223.5	239.4	273.4	326.8	366.5
32.5°	195.7	212.2	249.0	306.3	350.0
35°	166.8	184.9	225.2	285.4	332.4
37.5°	139.6	158.8	200.8	263.8	313.7
40°	111.8	131.6	177.0	242.8	295.0
42.5°	84.5	105.0	152.6	221.3	276.3
45°	60.7	79.4	128.2	200.3	255.3
47.5°	46.5	57.3	105.5	178.7	236.6
50°	40.8	44.3	84.0	157.7	215.6
52.5°	35.7	38.0	62.4	137.3	197.4
55°	30.6	32.3	45.4	118.0	178.7
57.5°	26.1	27.8	34.6	100.4	159.4
60°	21.6	23.3	28.9	82.8	139.0
62.5°	18.2	18.7	26.1	66.4	116.3
65°	14.2	15.3	23.3	49.9	94.2
67.5°	11.9	12.5	20.4	35.7	72.6
70°	9.6	10.2	17.6	25.0	51.6
72.5°	8.5	8.5	14.8	18.2	32.9
75°	6.8	7.9	11.9	13.0	17.0
77.5°	5.7	7.9	10.2	9.6	9.1
80°	4.5	7.4	7.9	7.9	7.4
82.5°	4.0	6.2	6.8	6.2	5.7
85°	2.8	5.1	5.1	5.1	4.0
87.5°	2.3	4.5	4.0	4.0	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)