

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: P1061724

Luminaire Tested: S125RDR-S610D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D930-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

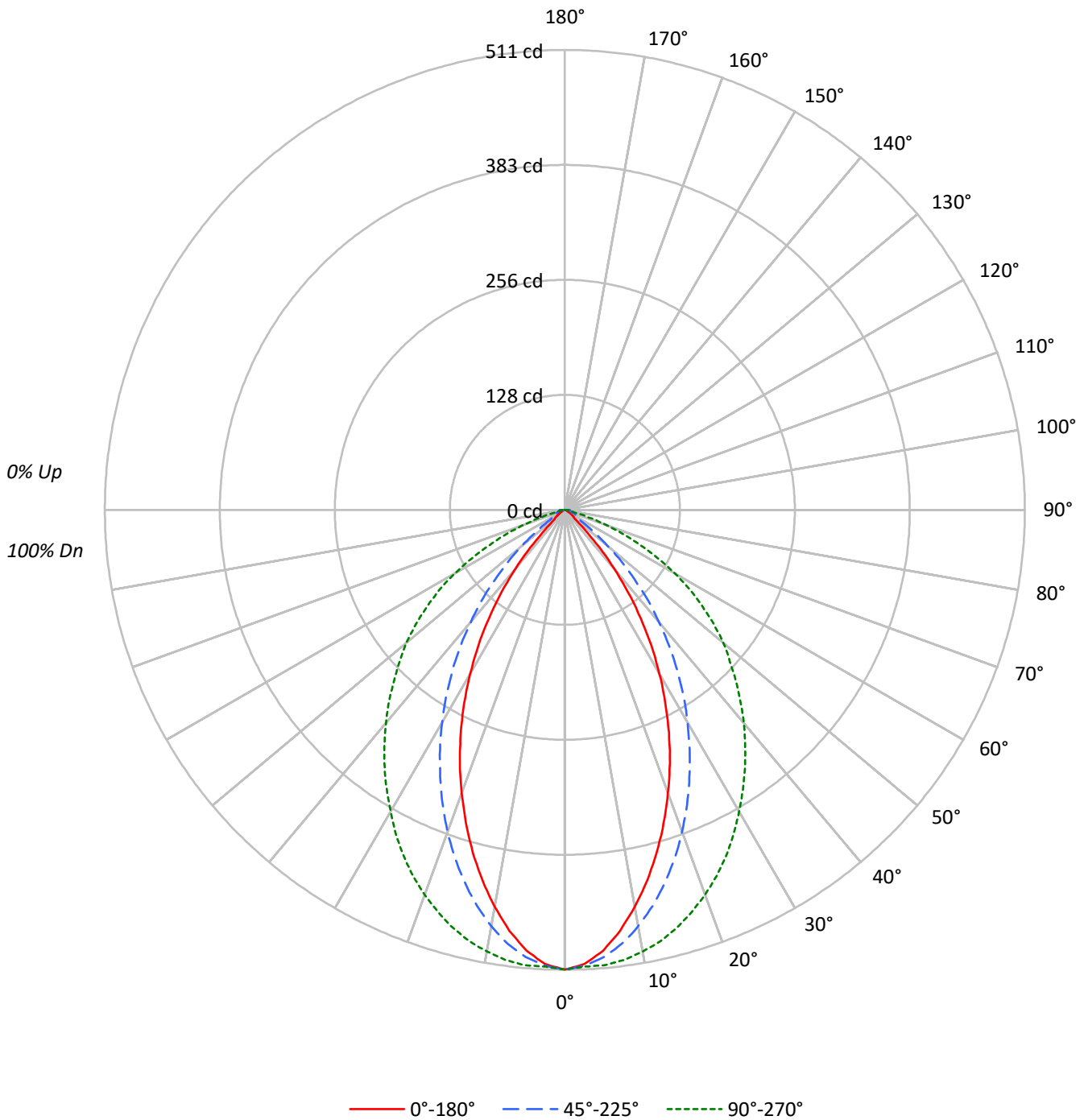
Lumens per Lamp: N/A
Luminaire Lumens: 660.8 lumens
Efficiency: N/A
Efficacy: 33.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	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	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3516	3516	3516
5°	3396	3447	3510
10°	3130	3285	3484
15°	2811	3058	3426
20°	2453	2790	3335
25°	2078	2487	3220
30°	1670	2166	3077
35°	1236	1826	2933
40°	765	1459	2780
45°	298	1066	2613
50°	140	668	2462
55°	102	286	2234
60°	70	204	1938
65°	46	213	1507
70°	46	193	948
75°	61	197	301
80°	91	226	202
85°	134	450	316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2613 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	7.1
10°-20°	121.4	18.4
20°-30°	154.6	23.4
30°-40°	143.9	21.8
40°-50°	99.0	15.0
50°-60°	56.1	8.5
60°-70°	26.5	4.0
70°-80°	8.3	1.3
80°-90°	4.3	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°	322.8	48.8
0°-40°	466.6	70.6
0°-60°	621.7	94.1
0°-90°	660.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	491	498	499	503	508	46
15°	394	408	429	461	481	110
25°	274	291	327	382	424	125
35°	147	167	217	292	349	91
45°	31	49	110	198	268	29
55°	8	10	24	114	186	8
65°	3	3	13	41	92	3
75°	2	5	7	8	11	2
85°	2	4	6	5	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.7	510.7	510.7	510.7	510.7
2.5°	505.1	510.2	506.8	507.3	507.9
5°	491.4	498.3	498.8	503.4	507.9
7.5°	471.6	480.1	486.3	497.1	504.5
10°	447.7	458.0	469.9	487.5	498.3
12.5°	422.2	434.1	450.6	475.6	490.9
15°	394.4	407.5	429.0	461.4	480.7
17.5°	364.9	379.6	405.8	444.3	468.7
20°	334.8	350.7	380.8	425.0	455.1
22.5°	304.7	321.2	354.7	404.1	440.4
25°	273.5	291.1	327.4	382.5	423.9
27.5°	241.7	259.9	300.2	360.4	406.3
30°	210.0	229.3	272.4	337.7	387.0
32.5°	178.8	198.1	245.2	315.0	368.3
35°	147.0	167.4	217.3	291.7	349.0
37.5°	115.2	137.3	190.1	267.9	329.1
40°	85.1	106.1	162.3	244.6	309.3
42.5°	56.7	77.2	137.3	221.3	288.9
45°	30.6	48.8	109.5	198.1	268.4
47.5°	16.5	26.1	85.7	175.4	248.6
50°	13.1	14.8	62.4	154.4	229.8
52.5°	10.8	11.9	40.9	134.5	208.3
55°	8.5	9.6	23.8	114.1	186.1
57.5°	6.8	7.9	15.3	94.8	164.6
60°	5.1	6.2	14.8	76.0	140.7
62.5°	4.0	4.5	13.6	58.5	115.8
65°	2.8	3.4	13.1	40.9	92.5
67.5°	2.3	2.8	11.9	26.1	69.2
70°	2.3	2.3	9.6	17.0	47.1
72.5°	2.3	4.0	8.5	11.3	28.4
75°	2.3	5.1	7.4	7.9	11.3
77.5°	2.3	5.7	6.2	6.2	6.2
80°	2.3	5.1	5.7	5.7	5.1
82.5°	2.3	4.5	5.1	5.7	4.5
85°	1.7	4.5	5.7	5.1	4.0
87.5°	1.7	4.5	5.1	4.5	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)