

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: P1061728

Luminaire Tested: S125RDR-S610D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

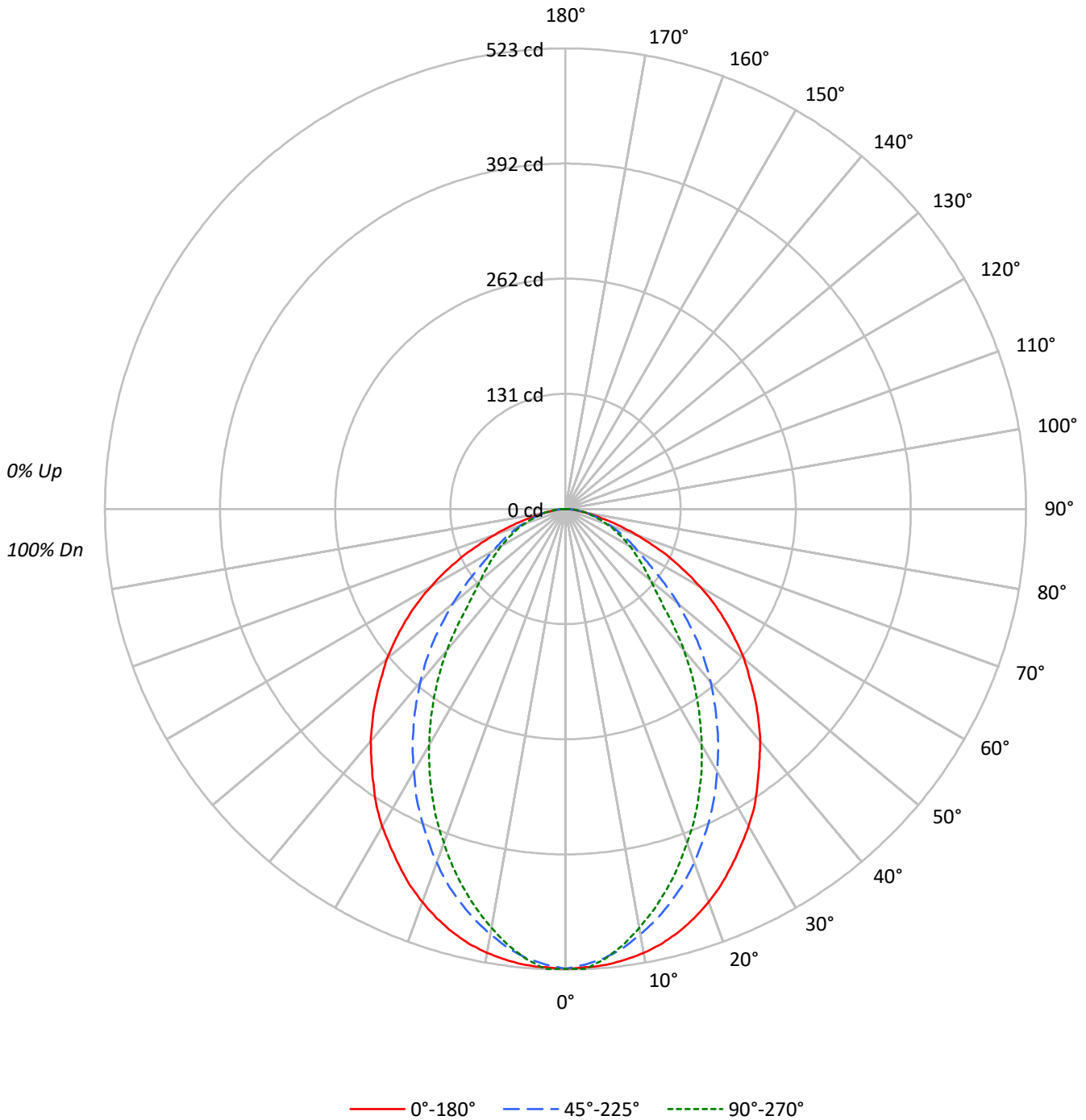
Lumens per Lamp: N/A
Luminaire Lumens: 989.1 lumens
Efficiency: N/A
Efficacy: 50.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061728

CATALOG NUMBER: S125RDR-S610D930-X4F0-XX-UDD-WVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061728

CATALOG NUMBER: S125RDR-S610D930-X4F0-XX-UDD-WVL-B

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75			75	
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65			65	
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57			57	
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50			50	
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45			45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40			40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36			36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33			33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3595	3595	3595
5°	3593	3538	3546
10°	3579	3429	3377
15°	3544	3293	3181
20°	3481	3132	2957
25°	3394	2946	2722
30°	3308	2736	2461
35°	3197	2526	2182
40°	3093	2303	1880
45°	2964	2059	1540
50°	2835	1786	1349
55°	2661	1491	1245
60°	2428	1304	1164
65°	2124	1191	1080
70°	1723	1073	1005
75°	1237	979	934
80°	852	876	876
85°	624	758	806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2964 cd/sqm



TEST NUMBER: P1061728

CATALOG NUMBER: S125RDR-S610D930-X4F0-XX-UDD-WVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	4.9
10°-20°	131.3	13.3
20°-30°	181.5	18.3
30°-40°	193.3	19.5
40°-50°	169.8	17.2
50°-60°	128.8	13.0
60°-70°	83.6	8.5
70°-80°	41.4	4.2
80°-90°	10.8	1.1
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°	361.3	36.5
0°-40°	554.6	56.1
0°-60°	853.2	86.3
0°-90°	989.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	520	519	512	514	513	49
15°	497	486	462	451	446	140
25°	447	422	388	368	358	206
35°	380	345	300	273	260	238
45°	304	262	212	174	158	235
55°	222	178	124	107	104	198
65°	130	97	73	68	66	129
75°	46	41	37	36	35	52
85°	8	9	10	10	10	10
90°	0	0	0	0	0	



TEST NUMBER: P1061728

CATALOG NUMBER: S125RDR-S610D930-X4F0-XX-UDD-WVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.1	522.1	522.1	522.1	522.1
2.5°	521.0	522.1	517.6	521.6	522.7
5°	519.9	518.7	511.9	513.6	513.0
7.5°	516.5	514.2	502.8	501.7	499.4
10°	511.9	506.2	490.4	486.4	483.0
12.5°	505.7	496.6	477.3	469.4	465.4
15°	497.2	485.8	462.0	451.3	446.2
17.5°	487.0	471.1	446.2	431.4	425.7
20°	475.1	456.4	427.4	410.4	403.6
22.5°	462.0	439.9	407.6	389.5	382.1
25°	446.7	422.3	387.8	367.9	358.3
27.5°	431.4	404.2	366.8	344.7	334.5
30°	416.1	384.9	344.1	320.3	309.5
32.5°	399.7	365.1	323.1	297.1	284.6
35°	380.4	345.2	300.5	273.2	259.6
37.5°	361.7	324.3	278.4	247.7	234.7
40°	344.1	304.4	256.2	222.8	209.2
42.5°	324.3	283.5	234.1	199.0	183.7
45°	304.4	261.9	211.5	173.5	158.2
47.5°	283.5	241.5	187.6	150.2	140.0
50°	264.7	220.5	166.7	132.7	125.9
52.5°	243.2	200.1	145.1	119.1	114.5
55°	221.7	178.0	124.2	107.1	103.7
57.5°	199.6	158.2	107.7	96.9	93.5
60°	176.3	137.8	94.7	86.2	84.5
62.5°	153.1	116.8	83.3	77.1	74.8
65°	130.4	96.9	73.1	67.5	66.3
67.5°	107.1	78.8	62.9	59.0	58.4
70°	85.6	64.1	53.3	51.0	49.9
72.5°	65.8	51.0	44.8	43.1	42.5
75°	46.5	40.8	36.8	35.7	35.1
77.5°	31.2	31.2	29.5	28.3	28.9
80°	21.5	22.7	22.1	22.1	22.1
82.5°	14.2	15.3	15.9	15.9	15.9
85°	7.9	9.1	9.6	9.6	10.2
87.5°	2.8	3.4	4.0	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)