

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: P1061718

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
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-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

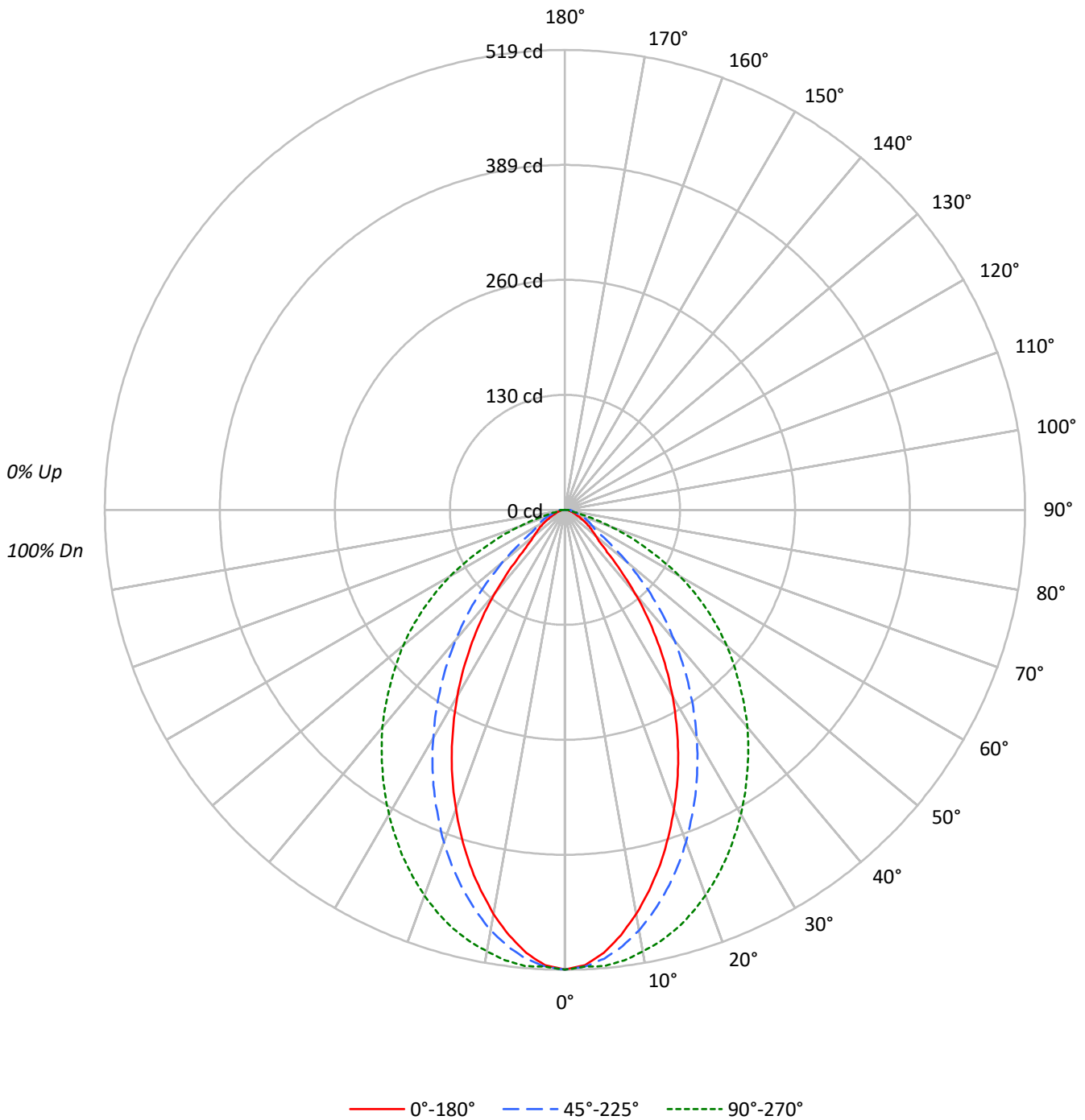
Lumens per Lamp: N/A
Luminaire Lumens: 751.5 lumens
Efficiency: N/A
Efficacy: 38.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061718

CATALOG NUMBER: S125RDR-S610D927-X4F0-XX-UDD-SVL-W

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	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	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	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3572	3572	3572
5°	3468	3513	3571
10°	3238	3368	3538
15°	2955	3163	3486
20°	2634	2925	3393
25°	2295	2655	3283
30°	1929	2363	3156
35°	1534	2053	3017
40°	1105	1725	2879
45°	655	1369	2711
50°	484	975	2551
55°	411	603	2336
60°	335	486	2057
65°	261	450	1626
70°	221	389	1087
75°	205	338	439
80°	218	349	305
85°	261	521	348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	6.4
10°-20°	125.6	16.7
20°-30°	164.1	21.8
30°-40°	159.9	21.3
40°-50°	119.9	16.0
50°-60°	75.2	10.0
60°-70°	39.1	5.2
70°-80°	14.2	1.9
80°-90°	5.6	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°	337.5	44.9
0°-40°	497.4	66.2
0°-60°	692.5	92.2
0°-90°	751.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	751.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	519	519	519	519	519	
5°	502	508	508	512	517	47
15°	415	427	444	471	489	116
25°	302	319	350	397	432	138
35°	182	202	244	309	359	113
45°	67	87	141	217	278	57
55°	34	36	50	131	195	30
65°	16	17	28	53	100	16
75°	8	10	13	13	16	8
85°	3	6	7	6	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	518.8	518.8	518.8	518.8	518.8
2.5°	514.4	519.3	516.0	516.0	516.0
5°	501.7	508.3	508.3	512.2	516.6
7.5°	484.1	491.8	496.7	506.1	512.7
10°	463.1	472.5	481.8	497.3	506.1
12.5°	439.4	450.4	463.7	485.2	498.4
15°	414.6	426.7	443.8	471.4	489.0
17.5°	387.6	401.9	422.3	455.4	476.9
20°	359.5	373.8	399.2	436.6	463.1
22.5°	331.3	346.8	374.3	416.8	448.2
25°	302.1	318.7	349.5	396.9	432.2
27.5°	272.3	289.4	323.6	376.5	414.6
30°	242.6	260.2	297.2	354.5	396.9
32.5°	212.8	231.6	270.7	331.9	378.2
35°	182.5	201.8	244.2	309.3	358.9
37.5°	153.3	172.6	217.8	286.1	339.6
40°	122.9	143.9	191.9	263.0	320.3
42.5°	93.2	114.7	165.9	239.8	299.4
45°	67.3	87.1	140.6	217.2	278.4
47.5°	51.8	62.8	114.7	194.1	258.0
50°	45.2	48.5	91.0	172.6	238.2
52.5°	39.1	41.3	68.4	152.7	216.7
55°	34.2	35.8	50.2	131.2	194.6
57.5°	28.7	30.9	39.7	110.3	172.0
60°	24.3	25.4	35.3	91.0	149.4
62.5°	19.8	20.9	31.4	71.7	124.0
65°	16.0	17.1	27.6	52.9	99.8
67.5°	13.2	13.8	23.2	37.5	76.6
70°	11.0	11.6	19.3	25.9	54.0
72.5°	9.4	11.0	15.4	18.7	34.2
75°	7.7	10.5	12.7	13.2	16.5
77.5°	6.6	9.9	10.5	10.5	9.4
80°	5.5	8.3	8.8	8.3	7.7
82.5°	4.4	6.6	7.2	7.2	6.1
85°	3.3	5.5	6.6	6.1	4.4
87.5°	2.2	5.0	5.5	5.0	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)