

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: P1061720

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D927-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

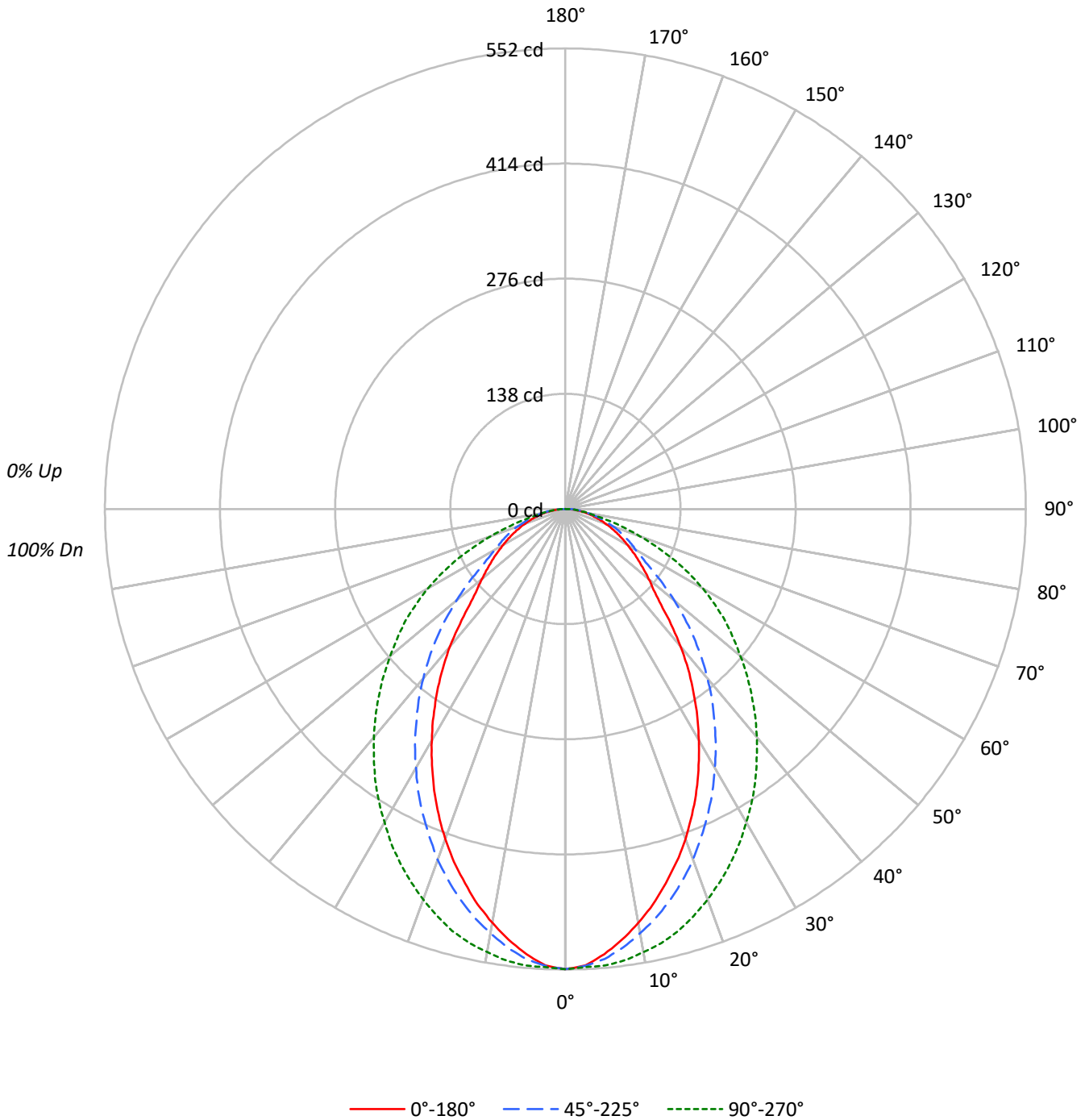
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1034.1 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
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				
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44				
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3798	3798	3798
5°	3703	3741	3797
10°	3522	3610	3772
15°	3312	3457	3732
20°	3085	3279	3650
25°	2826	3069	3558
30°	2546	2848	3448
35°	2251	2617	3339
40°	1932	2383	3210
45°	1577	2120	3075
50°	1399	1818	2934
55°	1283	1508	2811
60°	1184	1336	2618
65°	1105	1284	2335
70°	1033	1220	1908
75°	952	1144	1407
80°	896	1071	1027
85°	829	1043	869

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3075 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	4.9
10°-20°	137.5	13.3
20°-30°	189.0	18.3
30°-40°	200.3	19.4
40°-50°	174.8	16.9
50°-60°	132.8	12.8
60°-70°	89.0	8.6
70°-80°	45.9	4.4
80°-90°	13.8	1.3
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°	377.6	36.5
0°-40°	577.8	55.9
0°-60°	885.5	85.6
0°-90°	1034.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1034.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	536	541	541	545	549	50
15°	465	473	485	506	524	130
25°	372	384	404	438	468	171
35°	268	283	311	356	397	167
45°	162	178	218	270	316	128
55°	107	110	126	185	234	96
65°	68	69	79	105	143	67
75°	36	38	43	46	53	38
85°	10	13	13	12	11	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551.6	551.6	551.6	551.6	551.6
2.5°	547.8	551.6	548.3	548.3	549.4
5°	535.7	541.2	541.2	545.0	549.4
7.5°	520.8	526.8	530.2	539.0	545.6
10°	503.7	510.3	516.4	529.6	539.5
12.5°	485.5	492.7	502.0	519.1	532.9
15°	464.6	473.4	485.0	506.5	523.5
17.5°	443.6	452.4	466.8	492.1	511.4
20°	421.0	430.4	447.5	475.0	498.2
22.5°	396.8	407.3	425.4	456.9	483.9
25°	372.0	383.6	404.0	437.6	468.4
27.5°	346.1	359.9	381.9	417.7	451.9
30°	320.2	334.0	358.2	397.3	433.7
32.5°	294.3	309.2	335.6	376.9	416.1
35°	267.8	283.3	311.4	355.5	397.3
37.5°	241.9	257.4	288.8	334.5	376.9
40°	214.9	230.9	265.1	313.0	357.1
42.5°	187.4	204.5	241.4	291.0	336.7
45°	162.0	178.0	217.7	269.5	315.8
47.5°	143.3	153.8	194.0	247.4	295.4
50°	130.6	136.1	169.7	225.9	273.9
52.5°	117.9	122.3	147.1	203.9	253.5
55°	106.9	110.2	125.6	184.6	234.2
57.5°	95.9	99.2	109.1	165.3	211.6
60°	86.0	88.7	97.0	144.9	190.1
62.5°	76.6	78.8	87.6	125.6	167.0
65°	67.8	69.4	78.8	105.3	143.3
67.5°	59.0	60.6	70.0	86.0	117.9
70°	51.3	51.8	60.6	70.0	94.8
72.5°	43.5	44.1	51.3	56.8	72.7
75°	35.8	38.0	43.0	45.7	52.9
77.5°	29.2	32.0	34.7	35.8	35.8
80°	22.6	25.9	27.0	27.0	25.9
82.5°	16.5	19.3	19.8	18.7	17.6
85°	10.5	13.2	13.2	12.1	11.0
87.5°	5.0	7.2	7.2	6.6	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)