

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: P1061727

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061727
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-S610D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

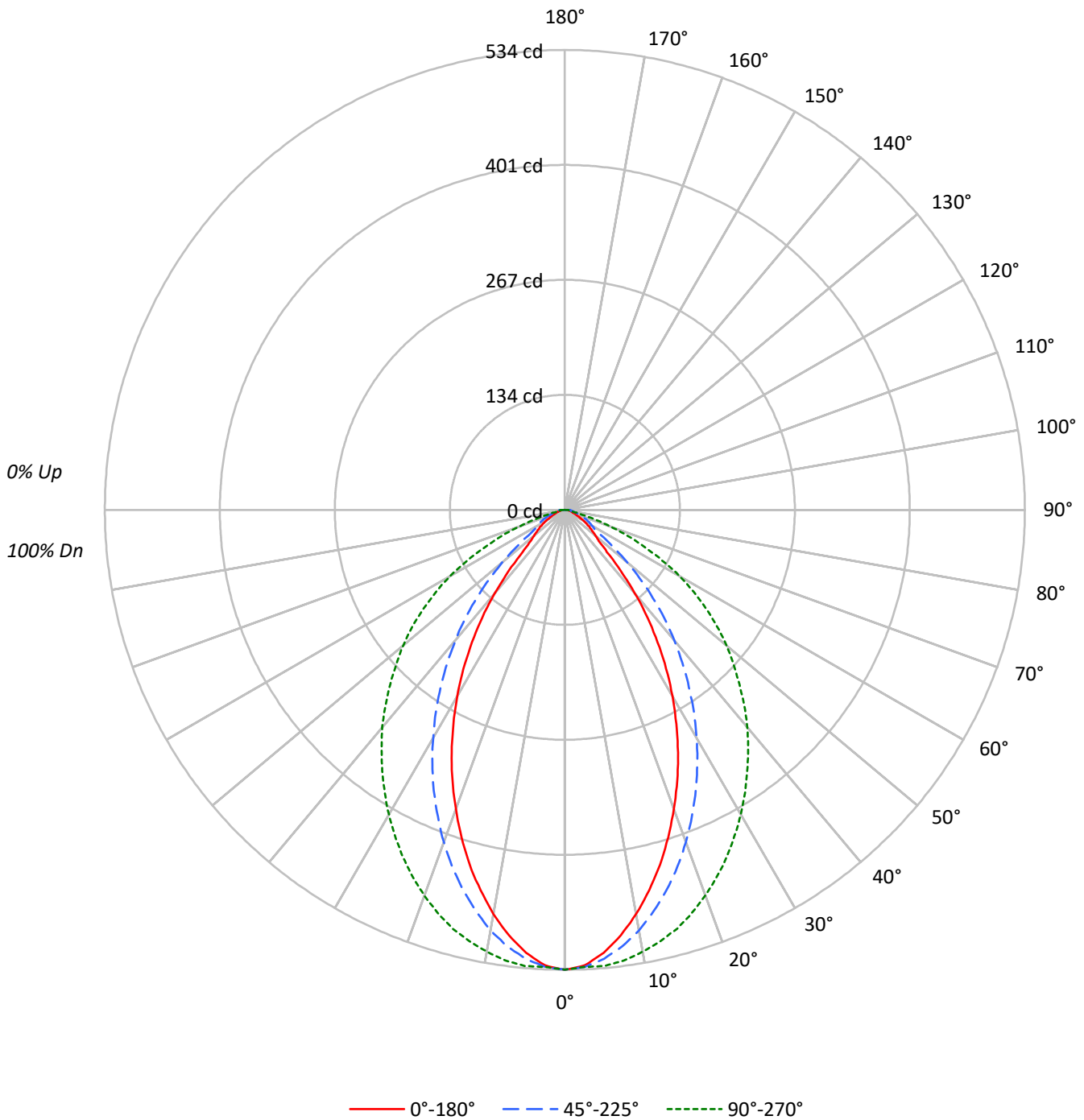
Lumens per Lamp: N/A
Luminaire Lumens: 773.4 lumens
Efficiency: N/A
Efficacy: 39.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3676	3676	3676
5°	3568	3615	3675
10°	3332	3467	3642
15°	3042	3256	3588
20°	2710	3010	3492
25°	2362	2733	3379
30°	1985	2431	3248
35°	1579	2113	3105
40°	1137	1775	2963
45°	674	1409	2790
50°	498	1003	2625
55°	423	619	2404
60°	344	500	2118
65°	269	463	1673
70°	227	401	1119
75°	210	348	452
80°	226	361	313
85°	269	537	355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2790 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	6.4
10°-20°	129.2	16.7
20°-30°	168.9	21.8
30°-40°	164.6	21.3
40°-50°	123.4	16.0
50°-60°	77.4	10.0
60°-70°	40.3	5.2
70°-80°	14.6	1.9
80°-90°	5.8	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°	347.4	44.9
0°-40°	511.9	66.2
0°-60°	712.8	92.2
0°-90°	773.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	773.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	516	523	523	527	532	48
15°	427	439	457	485	503	119
25°	311	328	360	408	445	142
35°	188	208	251	318	369	117
45°	69	90	145	224	286	58
55°	35	37	52	135	200	31
65°	16	18	28	54	103	17
75°	8	11	13	14	17	9
85°	3	6	7	6	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533.9	533.9	533.9	533.9	533.9
2.5°	529.4	534.5	531.1	531.1	531.1
5°	516.3	523.1	523.1	527.1	531.7
7.5°	498.2	506.1	511.2	520.9	527.7
10°	476.6	486.3	495.9	511.8	520.9
12.5°	452.2	463.6	477.2	499.3	512.9
15°	426.7	439.2	456.8	485.1	503.3
17.5°	398.9	413.6	434.6	468.7	490.8
20°	369.9	384.7	410.8	449.4	476.6
22.5°	341.0	356.9	385.3	429.0	461.3
25°	310.9	328.0	359.7	408.5	444.8
27.5°	280.3	297.9	333.1	387.5	426.7
30°	249.7	267.8	305.8	364.8	408.5
32.5°	219.0	238.3	278.6	341.6	389.2
35°	187.8	207.7	251.4	318.3	369.4
37.5°	157.7	177.6	224.1	294.5	349.5
40°	126.5	148.1	197.5	270.7	329.7
42.5°	95.9	118.0	170.8	246.8	308.1
45°	69.2	89.6	144.7	223.6	286.5
47.5°	53.3	64.7	118.0	199.7	265.5
50°	46.5	49.9	93.6	177.6	245.1
52.5°	40.3	42.6	70.4	157.2	223.0
55°	35.2	36.9	51.6	135.0	200.3
57.5°	29.5	31.8	40.9	113.5	177.0
60°	25.0	26.1	36.3	93.6	153.8
62.5°	20.4	21.6	32.3	73.8	127.7
65°	16.5	17.6	28.4	54.5	102.7
67.5°	13.6	14.2	23.8	38.6	78.9
70°	11.3	11.9	19.9	26.7	55.6
72.5°	9.6	11.3	15.9	19.3	35.2
75°	7.9	10.8	13.1	13.6	17.0
77.5°	6.8	10.2	10.8	10.8	9.6
80°	5.7	8.5	9.1	8.5	7.9
82.5°	4.5	6.8	7.4	7.4	6.2
85°	3.4	5.7	6.8	6.2	4.5
87.5°	2.3	5.1	5.7	5.1	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)