

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: P1175381

Luminaire Tested: S125RDR-S610D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175381  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/18/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S610D940-X4F0-XX-UDD-WVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

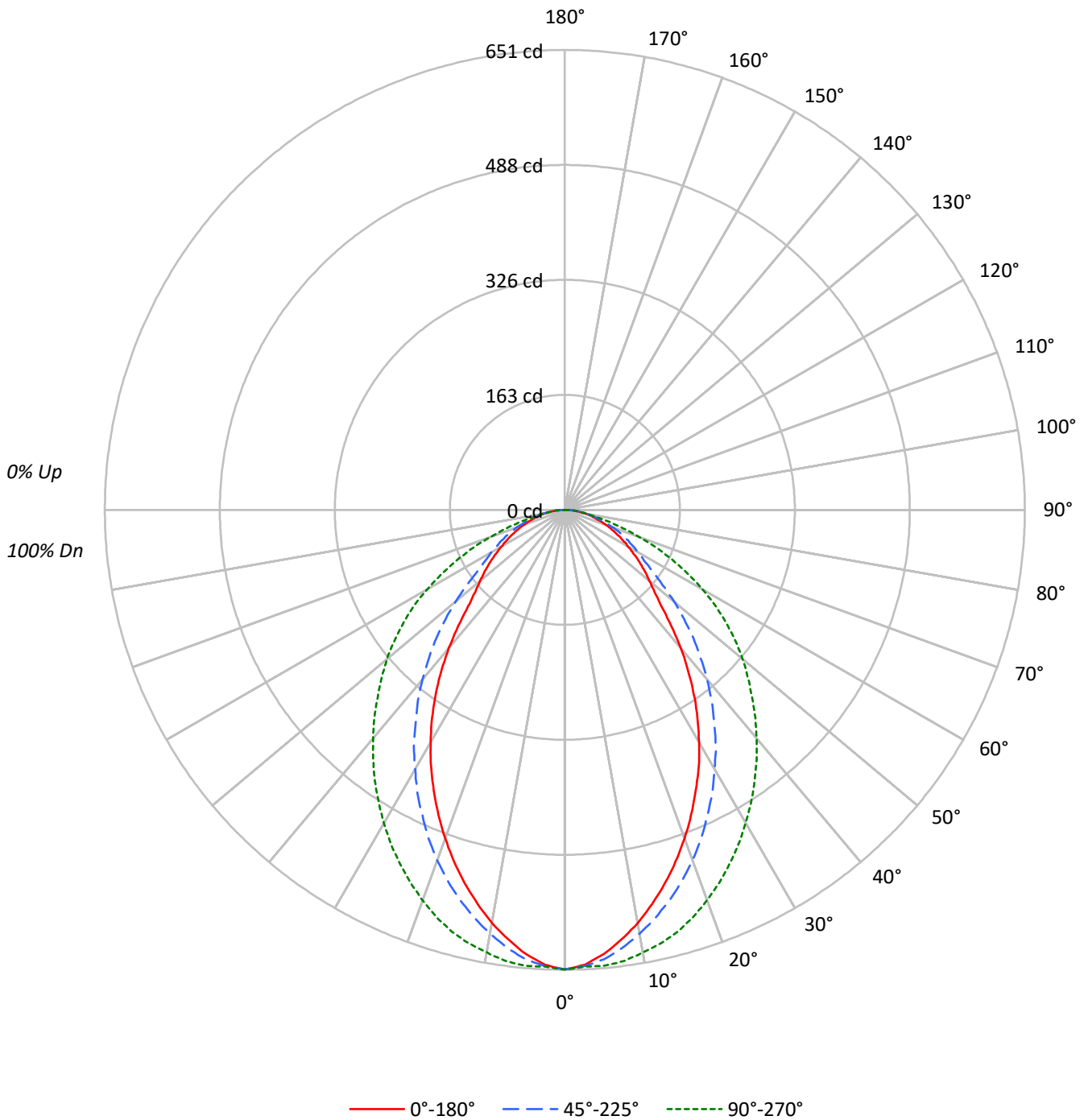
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1225.8 lumens  
Efficiency: N/A  
Efficacy: 62.5 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	100	100	100	
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86	86	86	
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74	74	74	74	
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64	64	64	64	
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56	56	56	56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	50	50	
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44	44	44	44	
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40	40	40	40	
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36	36	36	36	
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33	33	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30	30	30	30	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4480	4480	4480
5°	4363	4413	4478
10°	4152	4259	4449
15°	3902	4079	4406
20°	3626	3869	4310
25°	3331	3625	4196
30°	3021	3368	4071
35°	2674	3097	3937
40°	2294	2815	3793
45°	1882	2506	3647
50°	1674	2153	3520
55°	1545	1803	3342
60°	1422	1643	3096
65°	1323	1548	2735
70°	1234	1445	2235
75°	1160	1338	1676
80°	1094	1225	1205
85°	1003	1224	1003

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3647 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	4.9
10°-20°	162.4	13.2
20°-30°	223.4	18.2
30°-40°	236.9	19.3
40°-50°	207.4	16.9
50°-60°	159.1	13.0
60°-70°	106.0	8.6
70°-80°	54.3	4.4
80°-90°	16.1	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°	446.0	36.4
0°-40°	682.9	55.7
0°-60°	1049.3	85.6
0°-90°	1225.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	631	640	638	643	648	59
15°	547	560	572	599	618	153
25°	438	454	477	518	552	201
35°	318	333	368	422	468	198
45°	193	209	257	322	374	153
55°	129	132	150	223	278	115
65°	81	82	95	125	168	81
75°	44	46	50	53	63	46
85°	13	14	16	15	13	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	650.6	650.6	650.6	650.6	650.6
2.5°	644.6	651.2	646.2	646.8	647.3
5°	631.3	639.6	638.5	642.9	647.9
7.5°	613.6	622.5	625.2	636.3	644.0
10°	593.8	603.7	609.2	625.8	636.3
12.5°	571.1	582.7	591.5	613.1	628.5
15°	547.4	560.1	572.2	599.3	618.1
17.5°	521.9	534.7	550.7	581.6	604.2
20°	494.9	508.7	528.0	561.2	588.2
22.5°	467.3	481.6	503.7	540.2	571.1
25°	438.5	453.5	477.2	517.5	552.3
27.5°	410.4	424.2	451.8	494.9	533.0
30°	380.0	394.4	423.6	471.1	512.0
32.5°	349.6	364.0	397.7	447.4	490.5
35°	318.1	333.1	368.4	422.5	468.4
37.5°	286.7	302.1	341.3	397.1	445.7
40°	255.2	271.7	313.2	371.7	422.0
42.5°	223.1	240.8	284.4	346.9	398.8
45°	193.3	209.3	257.4	321.5	374.5
47.5°	171.8	181.2	228.7	295.5	351.3
50°	156.3	160.7	201.0	270.6	328.6
52.5°	142.5	145.3	174.0	247.4	303.8
55°	128.7	131.5	150.2	223.1	278.4
57.5°	115.4	117.1	132.6	198.8	253.0
60°	103.3	104.4	119.3	174.5	224.8
62.5°	92.2	92.8	106.6	149.7	196.6
65°	81.2	81.7	95.0	124.8	167.9
67.5°	71.3	71.3	84.0	102.2	140.3
70°	61.3	61.3	71.8	82.8	111.0
72.5°	52.5	53.6	60.8	66.8	86.7
75°	43.6	46.4	50.3	53.0	63.0
77.5°	35.3	38.7	40.3	41.4	42.0
80°	27.6	29.8	30.9	31.5	30.4
82.5°	20.4	22.1	22.6	22.6	21.0
85°	12.7	14.4	15.5	14.9	12.7
87.5°	6.1	8.3	8.8	7.7	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)