

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: P1175380

Luminaire Tested: S125RDR-S610D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175380  
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-S610D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

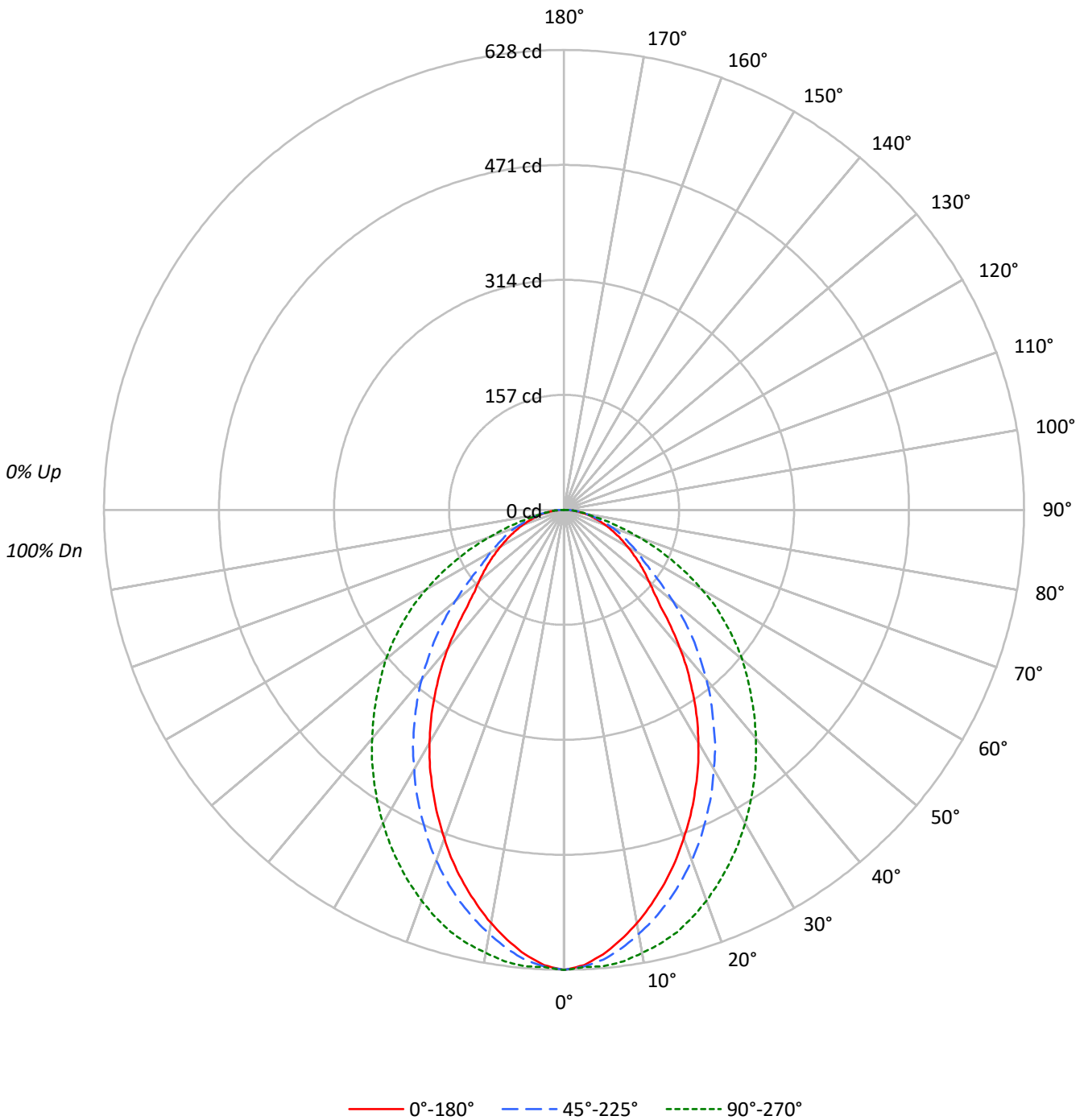
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1183.5 lumens  
Efficiency: N/A  
Efficacy: 60.4 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	73	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	66	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	47	59	52	47	58	51	47	56	51	46	44				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				

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

	0°	45°	90°
0°	4325	4325	4325
5°	4213	4261	4324
10°	4008	4112	4296
15°	3767	3938	4254
20°	3501	3735	4162
25°	3217	3501	4051
30°	2917	3252	3931
35°	2582	2990	3801
40°	2215	2718	3662
45°	1818	2420	3521
50°	1616	2079	3399
55°	1492	1742	3227
60°	1373	1586	2990
65°	1277	1494	2641
70°	1192	1395	2158
75°	1120	1290	1617
80°	1059	1186	1162
85°	972	1177	972

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3521 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.2	4.9
10°-20°	156.8	13.2
20°-30°	215.7	18.2
30°-40°	228.7	19.3
40°-50°	200.2	16.9
50°-60°	153.6	13.0
60°-70°	102.3	8.6
70°-80°	52.5	4.4
80°-90°	15.6	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°	430.6	36.4
0°-40°	659.3	55.7
0°-60°	1013.2	85.6
0°-90°	1183.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	610	618	616	621	626	57
15°	528	541	552	579	597	148
25°	423	438	461	500	533	194
35°	307	322	356	408	452	191
45°	187	202	248	310	362	147
55°	124	127	145	216	269	111
65°	78	79	92	120	162	78
75°	42	45	48	51	61	45
85°	12	14	15	14	12	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	628.2	628.2	628.2	628.2	628.2
2.5°	622.4	628.8	624.0	624.5	625.0
5°	609.6	617.6	616.5	620.8	625.6
7.5°	592.5	601.0	603.7	614.4	621.8
10°	573.3	582.9	588.2	604.2	614.4
12.5°	551.4	562.6	571.2	592.0	606.9
15°	528.5	540.8	552.5	578.6	596.8
17.5°	504.0	516.2	531.7	561.6	583.4
20°	477.8	491.2	509.8	541.8	568.0
22.5°	451.2	465.0	486.4	521.6	551.4
25°	423.4	437.8	460.8	499.7	533.3
27.5°	396.2	409.6	436.2	477.8	514.6
30°	366.9	380.8	409.0	454.9	494.4
32.5°	337.6	351.4	384.0	432.0	473.6
35°	307.2	321.6	355.7	408.0	452.2
37.5°	276.8	291.7	329.6	383.4	430.4
40°	246.4	262.4	302.4	358.9	407.4
42.5°	215.5	232.5	274.7	334.9	385.0
45°	186.7	202.1	248.5	310.4	361.6
47.5°	165.9	174.9	220.8	285.3	339.2
50°	150.9	155.2	194.1	261.3	317.3
52.5°	137.6	140.3	168.0	238.9	293.3
55°	124.3	126.9	145.1	215.5	268.8
57.5°	111.5	113.1	128.0	192.0	244.3
60°	99.7	100.8	115.2	168.5	217.1
62.5°	89.1	89.6	102.9	144.5	189.9
65°	78.4	78.9	91.7	120.5	162.1
67.5°	68.8	68.8	81.1	98.7	135.5
70°	59.2	59.2	69.3	80.0	107.2
72.5°	50.7	51.7	58.7	64.5	83.7
75°	42.1	44.8	48.5	51.2	60.8
77.5°	34.1	37.3	38.9	40.0	40.5
80°	26.7	28.8	29.9	30.4	29.3
82.5°	19.7	21.3	21.9	21.9	20.3
85°	12.3	13.9	14.9	14.4	12.3
87.5°	5.9	8.0	8.5	7.5	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)