

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: P1175425

Luminaire Tested: S125RDR-H610D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175425  
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-H610D935-X4F0-XX-UDD-WVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

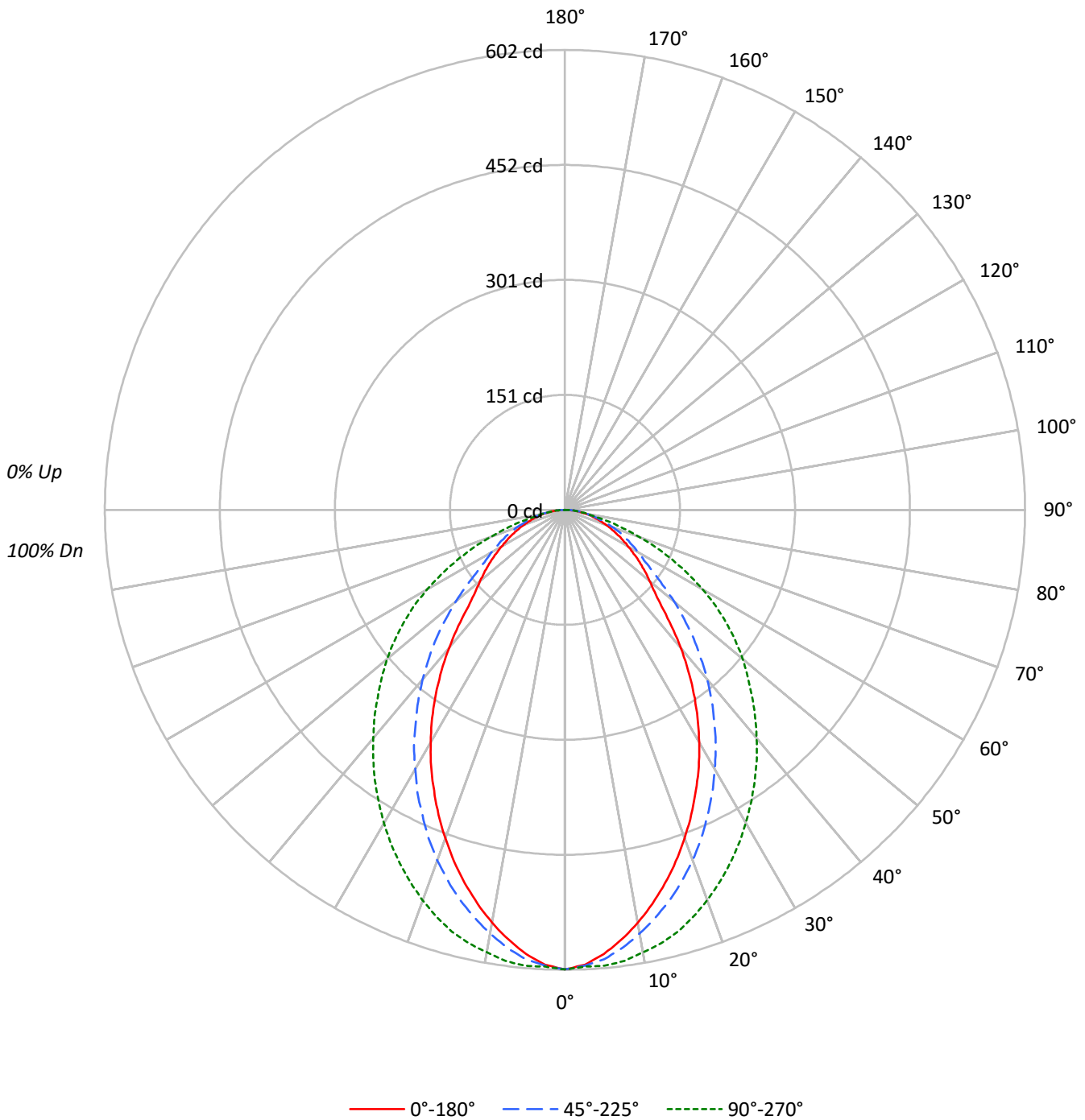
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1133.3 lumens  
Efficiency: N/A  
Efficacy: 65.1 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): 17.4  
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	
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			86	
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74			74	
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64			64	
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56			56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			50	
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			44	
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			40	
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36			36	
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33			33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30			30	

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

	0°	45°	90°
0°	4141	4141	4141
5°	4034	4080	4140
10°	3838	3938	4113
15°	3607	3771	4073
20°	3352	3577	3984
25°	3080	3352	3879
30°	2793	3114	3764
35°	2472	2863	3640
40°	2120	2602	3506
45°	1740	2317	3371
50°	1548	1991	3254
55°	1428	1667	3090
60°	1315	1519	2862
65°	1224	1430	2528
70°	1141	1337	2065
75°	1072	1237	1548
80°	1011	1134	1114
85°	924	1130	924

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3371 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	4.9
10°-20°	150.1	13.2
20°-30°	206.5	18.2
30°-40°	219.0	19.3
40°-50°	191.7	16.9
50°-60°	147.1	13.0
60°-70°	98.0	8.6
70°-80°	50.2	4.4
80°-90°	14.9	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°	412.3	36.4
0°-40°	631.3	55.7
0°-60°	970.1	85.6
0°-90°	1133.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1133.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	584	591	590	594	599	55
15°	506	518	529	554	571	142
25°	405	419	441	478	511	186
35°	294	308	341	391	433	183
45°	179	194	238	297	346	141
55°	119	122	139	206	257	107
65°	75	76	88	115	155	75
75°	40	43	46	49	58	43
85°	12	13	14	14	12	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	601.5	601.5	601.5	601.5	601.5
2.5°	595.9	602.0	597.4	598.0	598.5
5°	583.7	591.3	590.3	594.4	599.0
7.5°	567.3	575.5	578.0	588.3	595.4
10°	548.9	558.1	563.2	578.6	588.3
12.5°	528.0	538.7	546.9	566.8	581.1
15°	506.0	517.8	529.0	554.0	571.4
17.5°	482.6	494.3	509.1	537.7	558.6
20°	457.5	470.3	488.2	518.8	543.8
22.5°	432.0	445.3	465.7	499.4	528.0
25°	405.4	419.2	441.2	478.5	510.6
27.5°	379.4	392.2	417.7	457.5	492.8
30°	351.3	364.6	391.7	435.6	473.4
32.5°	323.2	336.5	367.7	413.6	453.4
35°	294.1	307.9	340.6	390.6	433.0
37.5°	265.0	279.3	315.6	367.1	412.1
40°	235.9	251.2	289.5	343.7	390.1
42.5°	206.3	222.6	263.0	320.7	368.7
45°	178.7	193.5	238.0	297.2	346.2
47.5°	158.8	167.5	211.4	273.2	324.8
50°	144.5	148.6	185.9	250.2	303.8
52.5°	131.7	134.3	160.9	228.8	280.9
55°	119.0	121.5	138.9	206.3	257.4
57.5°	106.7	108.3	122.6	183.8	233.9
60°	95.5	96.5	110.3	161.4	207.8
62.5°	85.3	85.8	98.6	138.4	181.8
65°	75.1	75.6	87.8	115.4	155.2
67.5°	65.9	65.9	77.6	94.5	129.7
70°	56.7	56.7	66.4	76.6	102.6
72.5°	48.5	49.5	56.2	61.8	80.2
75°	40.3	42.9	46.5	49.0	58.2
77.5°	32.7	35.7	37.3	38.3	38.8
80°	25.5	27.6	28.6	29.1	28.1
82.5°	18.9	20.4	20.9	20.9	19.4
85°	11.7	13.3	14.3	13.8	11.7
87.5°	5.6	7.7	8.2	7.1	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)