

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: P1175374

Luminaire Tested: S125RDR-S610D830-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175374  
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-S610D830-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

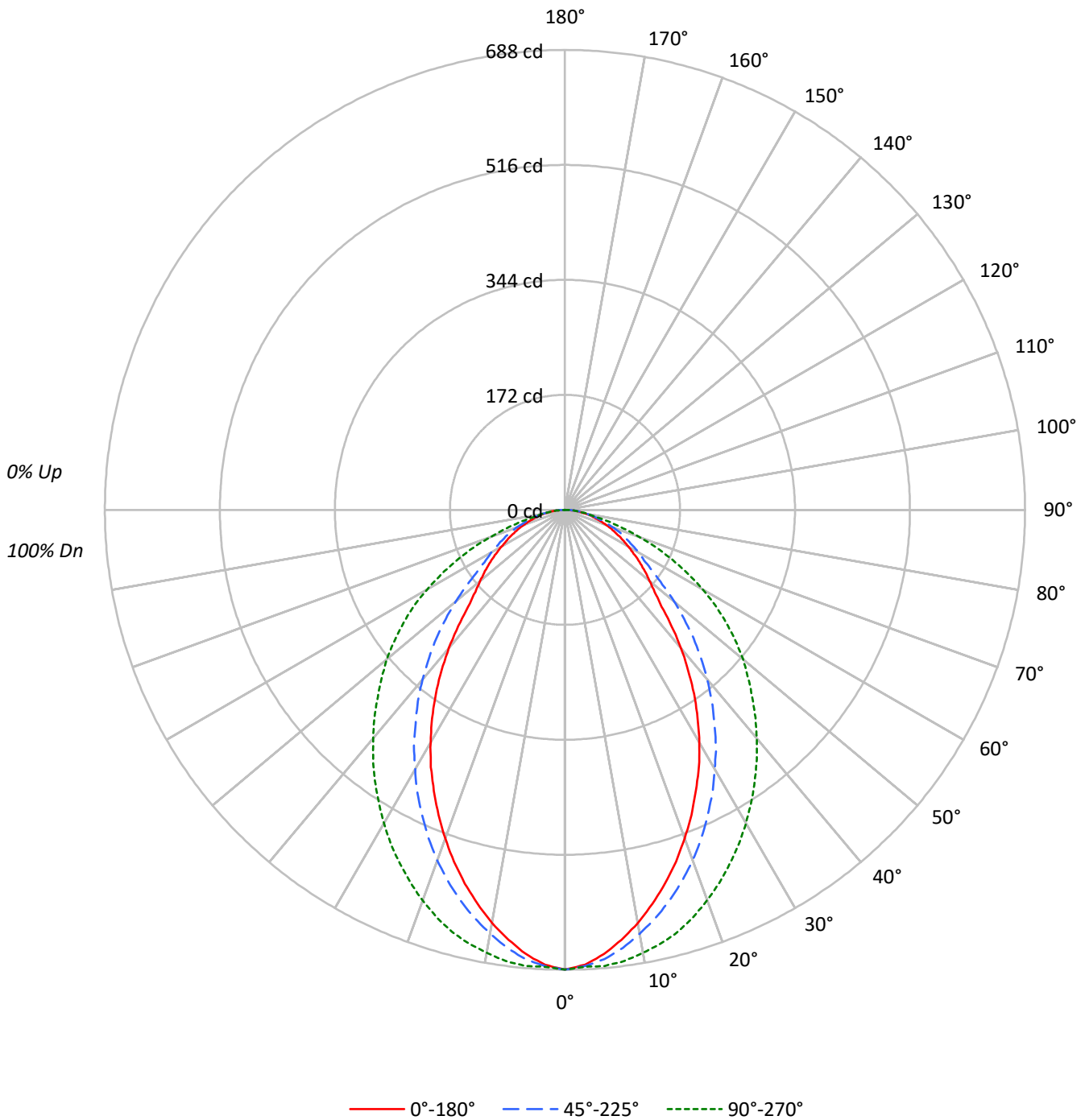
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1295.6 lumens  
Efficiency: N/A  
Efficacy: 66.1 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): 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	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°	4735	4735	4735
5°	4612	4665	4733
10°	4388	4502	4702
15°	4124	4311	4657
20°	3833	4089	4556
25°	3521	3832	4435
30°	3194	3560	4303
35°	2827	3273	4161
40°	2424	2975	4009
45°	1989	2649	3854
50°	1770	2276	3721
55°	1633	1906	3532
60°	1504	1736	3272
65°	1398	1636	2892
70°	1304	1528	2361
75°	1226	1413	1772
80°	1158	1297	1273
85°	1059	1288	1059

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3854 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	4.9
10°-20°	171.6	13.2
20°-30°	236.1	18.2
30°-40°	250.4	19.3
40°-50°	219.2	16.9
50°-60°	168.2	13.0
60°-70°	112.0	8.6
70°-80°	57.4	4.4
80°-90°	17.0	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°	471.4	36.4
0°-40°	721.8	55.7
0°-60°	1109.1	85.6
0°-90°	1295.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1295.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	667	676	675	680	685	62
15°	579	592	605	633	653	162
25°	464	479	504	547	584	213
35°	336	352	389	447	495	210
45°	204	221	272	340	396	161
55°	136	139	159	236	294	122
65°	86	86	100	132	178	85
75°	46	49	53	56	67	49
85°	13	15	16	16	13	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	687.7	687.7	687.7	687.7	687.7
2.5°	681.3	688.3	683.1	683.6	684.2
5°	667.3	676.1	674.9	679.6	684.8
7.5°	648.6	658.0	660.9	672.6	680.7
10°	627.6	638.1	643.9	661.5	672.6
12.5°	603.7	615.9	625.3	648.0	664.4
15°	578.6	592.0	604.8	633.4	653.3
17.5°	551.7	565.1	582.1	614.8	638.7
20°	523.1	537.7	558.1	593.2	621.8
22.5°	493.9	509.1	532.4	571.0	603.7
25°	463.5	479.3	504.4	547.0	583.8
27.5°	433.8	448.4	477.6	523.1	563.4
30°	401.7	416.8	447.8	498.0	541.2
32.5°	369.6	384.7	420.3	472.9	518.4
35°	336.3	352.0	389.4	446.6	495.1
37.5°	303.0	319.3	360.8	419.8	471.1
40°	269.7	287.2	331.0	392.9	446.0
42.5°	235.9	254.5	300.7	366.6	421.5
45°	204.3	221.3	272.1	339.8	395.8
47.5°	181.6	191.5	241.7	312.3	371.3
50°	165.2	169.9	212.5	286.1	347.4
52.5°	150.6	153.5	183.9	261.5	321.1
55°	136.0	138.9	158.8	235.9	294.2
57.5°	122.0	123.8	140.1	210.2	267.4
60°	109.2	110.3	126.1	184.5	237.6
62.5°	97.5	98.1	112.7	158.2	207.8
65°	85.8	86.4	100.4	131.9	177.5
67.5°	75.3	75.3	88.7	108.0	148.3
70°	64.8	64.8	75.9	87.6	117.3
72.5°	55.5	56.6	64.2	70.6	91.7
75°	46.1	49.0	53.1	56.0	66.6
77.5°	37.4	40.9	42.6	43.8	44.4
80°	29.2	31.5	32.7	33.3	32.1
82.5°	21.6	23.4	23.9	23.9	22.2
85°	13.4	15.2	16.3	15.8	13.4
87.5°	6.4	8.8	9.3	8.2	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)