

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: P1061686

Luminaire Tested: S125RDR-S610D835-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S610D835-X4F0-XX-UDD-BVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

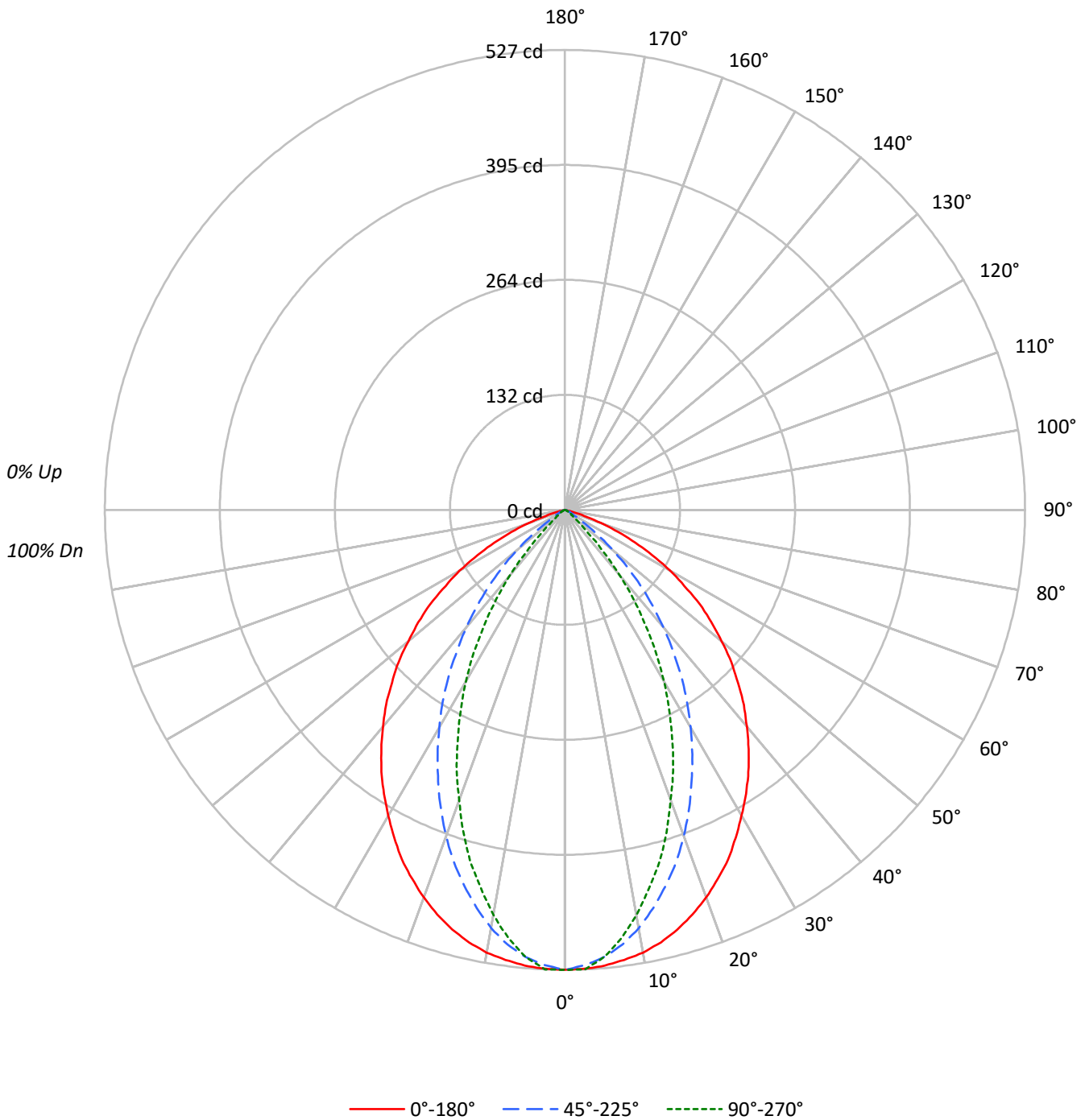
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 680.9 lumens  
Efficiency: N/A  
Efficacy: 34.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97  
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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

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

	0°	45°	90°
0°	3629	3629	3629
5°	3624	3556	3556
10°	3602	3403	3296
15°	3548	3177	2979
20°	3464	2914	2593
25°	3359	2610	2208
30°	3218	2289	1802
35°	3080	1952	1350
40°	2912	1575	875
45°	2728	1192	379
50°	2510	759	141
55°	2262	334	100
60°	1915	143	67
65°	1450	91	34
70°	882	42	14
75°	186	19	19
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2728 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.6	7.1
10°-20°	126.6	18.6
20°-30°	162.6	23.9
30°-40°	153.1	22.5
40°-50°	107.0	15.7
50°-60°	57.2	8.4
60°-70°	22.8	3.4
70°-80°	3.0	0.4
80°-90°	0.0	0.0
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°	337.8	49.6
0°-40°	490.9	72.1
0°-60°	655.1	96.2
0°-90°	680.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	527	527	527	527	527	
5°	524	523	514	516	514	50
15°	498	482	446	425	418	140
25°	442	403	344	306	291	203
35°	366	308	232	179	161	229
45°	280	210	122	59	39	216
55°	188	115	28	10	8	167
65°	89	36	6	3	2	89
75°	7	2	1	1	1	14
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	527.0	527.0	527.0	527.0	527.0
2.5°	526.3	527.0	522.2	526.3	527.0
5°	524.3	522.9	514.5	515.9	514.5
7.5°	520.1	516.6	502.7	497.8	495.1
10°	515.2	507.6	486.7	476.3	471.4
12.5°	507.6	496.5	467.2	451.3	444.3
15°	497.8	481.8	445.7	424.8	417.9
17.5°	486.0	465.2	423.4	397.7	387.3
20°	472.8	445.0	397.7	367.1	353.9
22.5°	457.5	425.5	371.3	337.2	324.0
25°	442.2	403.3	343.5	305.9	290.6
27.5°	423.4	380.3	315.7	275.3	258.7
30°	404.7	357.4	287.9	244.1	226.7
32.5°	385.9	333.1	260.0	211.4	194.0
35°	366.4	308.0	232.2	179.4	160.6
37.5°	345.6	283.0	202.3	148.8	129.3
40°	324.0	258.7	175.2	118.9	97.3
42.5°	303.2	234.3	148.1	89.7	66.1
45°	280.2	210.0	122.4	59.1	38.9
47.5°	258.7	186.3	96.0	34.1	20.2
50°	234.3	162.0	70.9	18.1	13.2
52.5°	211.4	138.4	47.3	11.8	10.4
55°	188.4	115.4	27.8	9.7	8.3
57.5°	162.0	93.2	15.3	7.6	6.3
60°	139.1	73.0	10.4	5.6	4.9
62.5°	112.6	53.5	7.6	4.2	3.5
65°	89.0	35.5	5.6	2.8	2.1
67.5°	66.1	20.9	3.5	1.4	1.4
70°	43.8	11.1	2.1	0.7	0.7
72.5°	22.9	4.9	1.4	0.7	0.7
75°	7.0	2.1	0.7	0.7	0.7
77.5°	0.0	0.7	0.0	0.0	0.7
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)