

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: P1061680

Luminaire Tested: S125RDR-S610D830-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S610D830-X4F0-XX-UDD-SVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

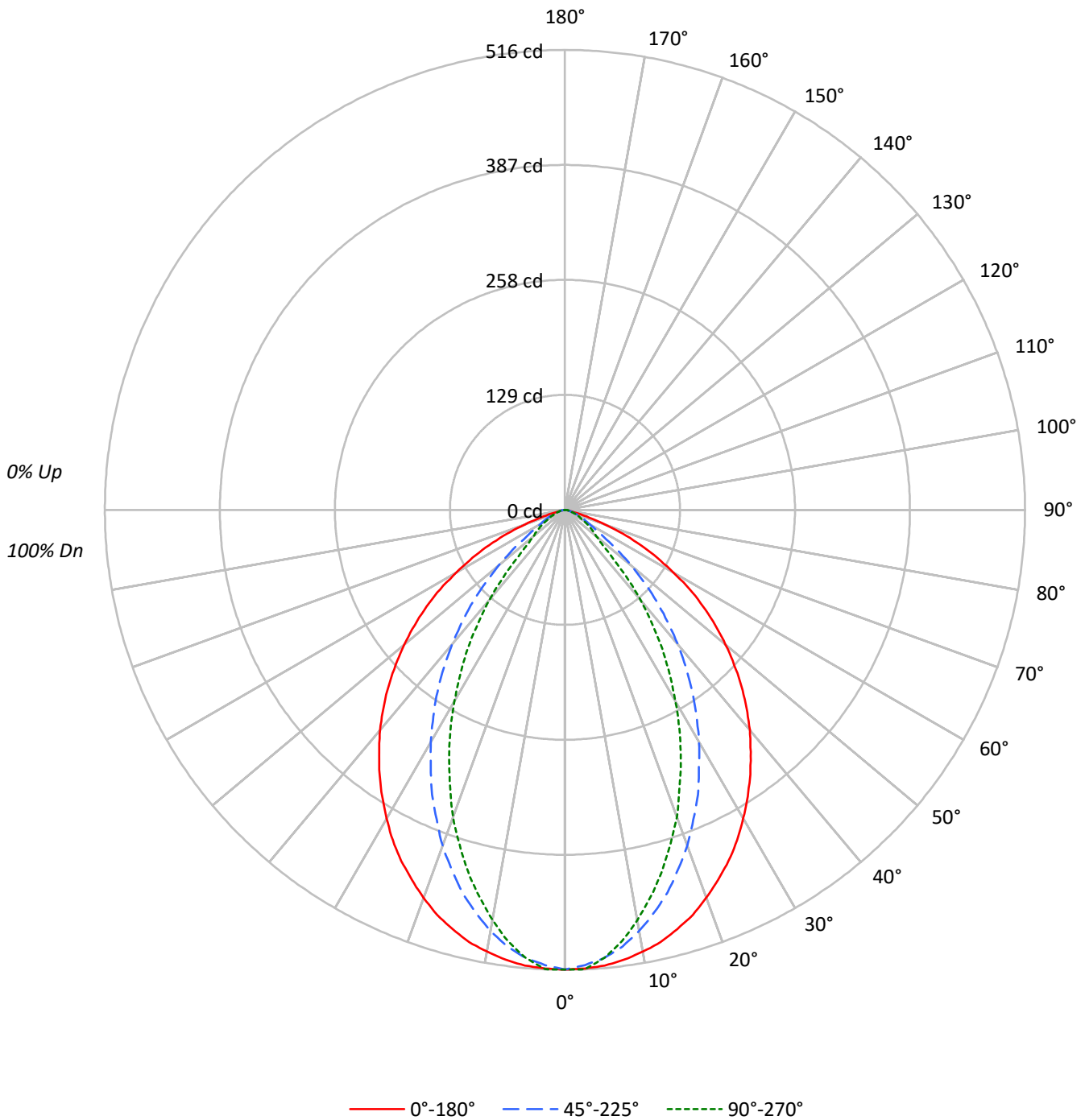
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 746.0 lumens  
Efficiency: N/A  
Efficacy: 38.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
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	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	3551	3551	3551
5°	3547	3488	3488
10°	3519	3355	3267
15°	3471	3168	2995
20°	3395	2939	2689
25°	3301	2679	2335
30°	3179	2391	1969
35°	3046	2094	1598
40°	2899	1767	1184
45°	2725	1417	715
50°	2520	1039	492
55°	2274	637	409
60°	1932	434	325
65°	1527	331	256
70°	962	238	211
75°	314	176	176
80°	103	131	155
85°	55	103	103

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2725 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	6.4
10°-20°	126.0	16.9
20°-30°	165.7	22.2
30°-40°	162.8	21.8
40°-50°	123.2	16.5
50°-60°	74.7	10.0
60°-70°	35.3	4.7
70°-80°	9.2	1.2
80°-90°	1.4	0.2
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°	339.4	45.5
0°-40°	502.2	67.3
0°-60°	700.1	93.9
0°-90°	746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	746.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	513	512	505	505	505	49
15°	487	474	444	427	420	137
25°	434	402	353	320	307	200
35°	362	314	249	205	190	226
45°	280	220	146	92	73	216
55°	189	130	53	36	34	169
65°	94	48	20	17	16	92
75°	12	8	7	7	7	18
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	515.8	515.8	515.8	515.8	515.8
2.5°	515.1	515.1	511.2	515.8	515.8
5°	513.2	511.9	504.7	505.3	504.7
7.5°	509.2	506.6	494.2	490.9	488.3
10°	503.3	498.1	479.8	471.9	467.3
12.5°	496.8	487.6	462.7	451.6	444.4
15°	487.0	473.9	444.4	427.3	420.1
17.5°	476.5	457.5	422.7	402.4	393.2
20°	463.4	441.1	401.1	376.2	367.0
22.5°	449.0	422.7	376.2	348.7	336.2
25°	434.5	401.8	352.6	319.8	307.4
27.5°	418.1	380.8	325.7	291.7	277.9
30°	399.8	359.8	300.8	265.4	247.7
32.5°	381.4	338.2	274.6	235.9	218.2
35°	362.4	313.9	249.1	205.1	190.1
37.5°	342.1	291.0	222.8	177.0	159.3
40°	322.5	268.1	196.6	148.1	131.7
42.5°	301.5	245.1	170.4	119.9	101.6
45°	279.9	220.2	145.5	92.4	73.4
47.5°	257.6	197.9	120.6	68.2	55.1
50°	235.3	174.3	97.0	50.5	45.9
52.5°	212.4	151.4	73.4	41.9	40.0
55°	189.4	129.8	53.1	36.0	34.1
57.5°	165.8	106.2	40.0	30.8	28.8
60°	140.3	85.2	31.5	25.6	23.6
62.5°	116.7	66.9	25.6	21.0	19.7
65°	93.7	47.8	20.3	17.0	15.7
67.5°	70.1	32.1	15.7	13.1	13.1
70°	47.8	21.0	11.8	10.5	10.5
72.5°	28.8	12.5	8.5	8.5	8.5
75°	11.8	7.9	6.6	6.6	6.6
77.5°	3.9	4.6	4.6	5.2	5.2
80°	2.6	2.6	3.3	3.9	3.9
82.5°	1.3	2.0	2.0	2.6	2.6
85°	0.7	0.7	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)