

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: P1061725

Luminaire Tested: S125RDR-S610D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061725  
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-S610D930-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, 90 CRI LEDS  
Ballast/Driver: -

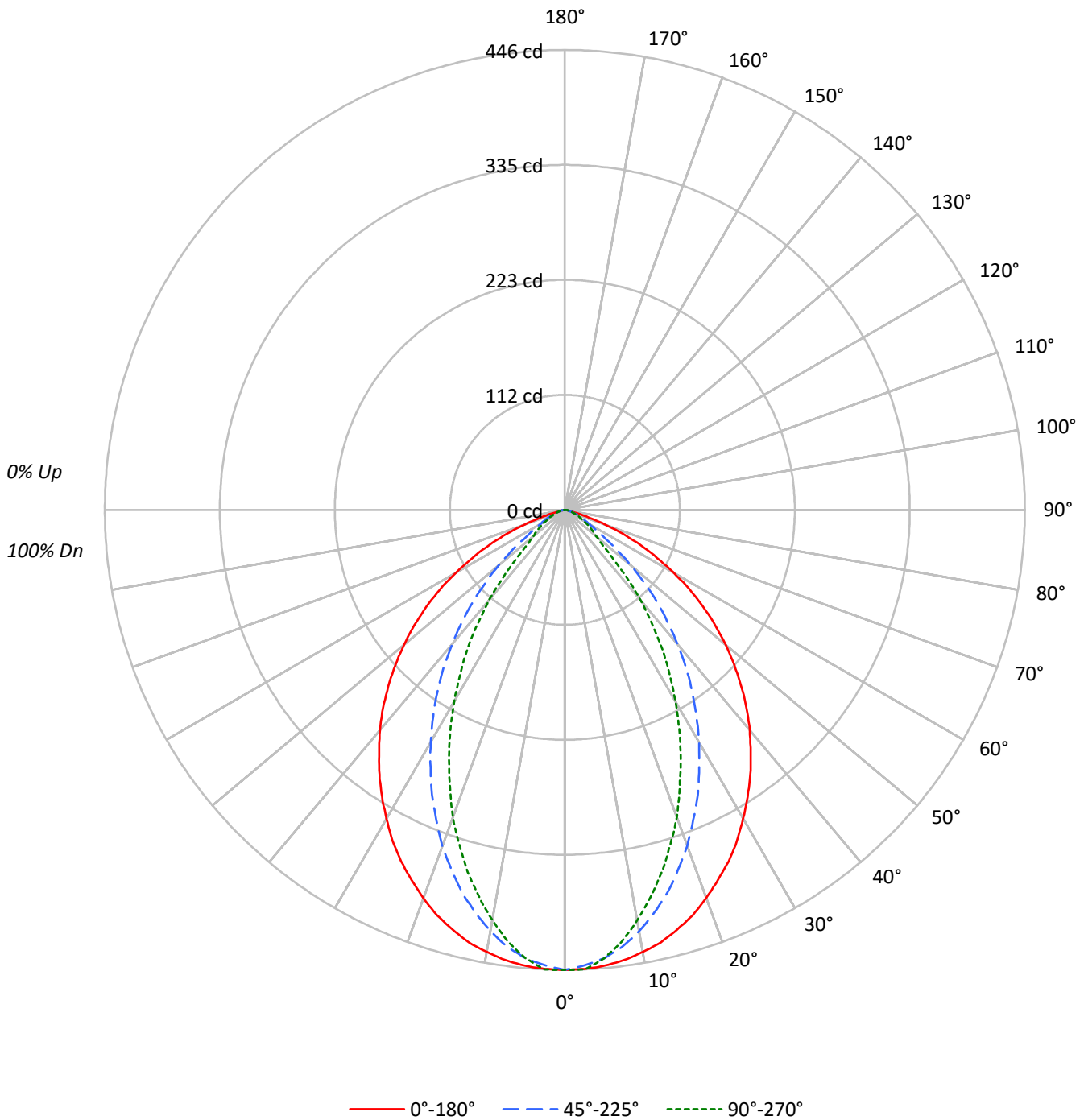
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 645.3 lumens  
Efficiency: N/A  
Efficacy: 32.9 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°	3072	3072	3072
5°	3068	3017	3017
10°	3044	2901	2826
15°	3002	2740	2590
20°	2937	2543	2326
25°	2856	2317	2020
30°	2749	2069	1704
35°	2635	1811	1382
40°	2507	1529	1025
45°	2357	1226	618
50°	2180	899	425
55°	1966	551	354
60°	1670	375	281
65°	1321	287	222
70°	833	205	183
75°	271	152	152
80°	91	111	135
85°	47	87	87

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2357 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.3	6.4
10°-20°	109.0	16.9
20°-30°	143.3	22.2
30°-40°	140.8	21.8
40°-50°	106.6	16.5
50°-60°	64.6	10.0
60°-70°	30.5	4.7
70°-80°	8.0	1.2
80°-90°	1.2	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°	293.6	45.5
0°-40°	434.4	67.3
0°-60°	605.6	93.9
0°-90°	645.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	645.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	446	446	446	446	446	
5°	444	443	436	437	436	42
15°	421	410	384	370	363	119
25°	376	348	305	277	266	173
35°	314	272	215	177	164	196
45°	242	190	126	80	64	186
55°	164	112	46	31	30	146
65°	81	41	18	15	14	80
75°	10	7	6	6	6	16
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°	446.2	446.2	446.2	446.2	446.2
2.5°	445.6	445.6	442.2	446.2	446.2
5°	443.9	442.8	436.5	437.1	436.5
7.5°	440.5	438.2	427.5	424.6	422.4
10°	435.4	430.9	415.0	408.2	404.2
12.5°	429.7	421.8	400.2	390.6	384.4
15°	421.2	409.9	384.4	369.6	363.4
17.5°	412.2	395.7	365.7	348.1	340.2
20°	400.8	381.5	347.0	325.4	317.5
22.5°	388.3	365.7	325.4	301.6	290.8
25°	375.9	347.5	305.0	276.7	265.9
27.5°	361.7	329.4	281.8	252.3	240.4
30°	345.8	311.2	260.2	229.6	214.3
32.5°	329.9	292.5	237.5	204.1	188.8
35°	313.5	271.6	215.4	177.4	164.4
37.5°	295.9	251.7	192.8	153.1	137.8
40°	278.9	231.9	170.1	128.1	114.0
42.5°	260.8	212.0	147.4	103.7	87.9
45°	242.1	190.5	125.9	79.9	63.5
47.5°	222.8	171.2	104.3	59.0	47.6
50°	203.5	150.8	83.9	43.7	39.7
52.5°	183.7	131.0	63.5	36.3	34.6
55°	163.8	112.3	45.9	31.2	29.5
57.5°	143.4	91.8	34.6	26.6	24.9
60°	121.3	73.7	27.2	22.1	20.4
62.5°	100.9	57.8	22.1	18.1	17.0
65°	81.1	41.4	17.6	14.7	13.6
67.5°	60.7	27.8	13.6	11.3	11.3
70°	41.4	18.1	10.2	9.1	9.1
72.5°	24.9	10.8	7.4	7.4	7.4
75°	10.2	6.8	5.7	5.7	5.7
77.5°	3.4	4.0	4.0	4.5	4.5
80°	2.3	2.3	2.8	3.4	3.4
82.5°	1.1	1.7	1.7	2.3	2.3
85°	0.6	0.6	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)