

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: P1061646

Luminaire Tested: S125RDR-S375D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S375D930-X4F0-XX-UDD-SVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

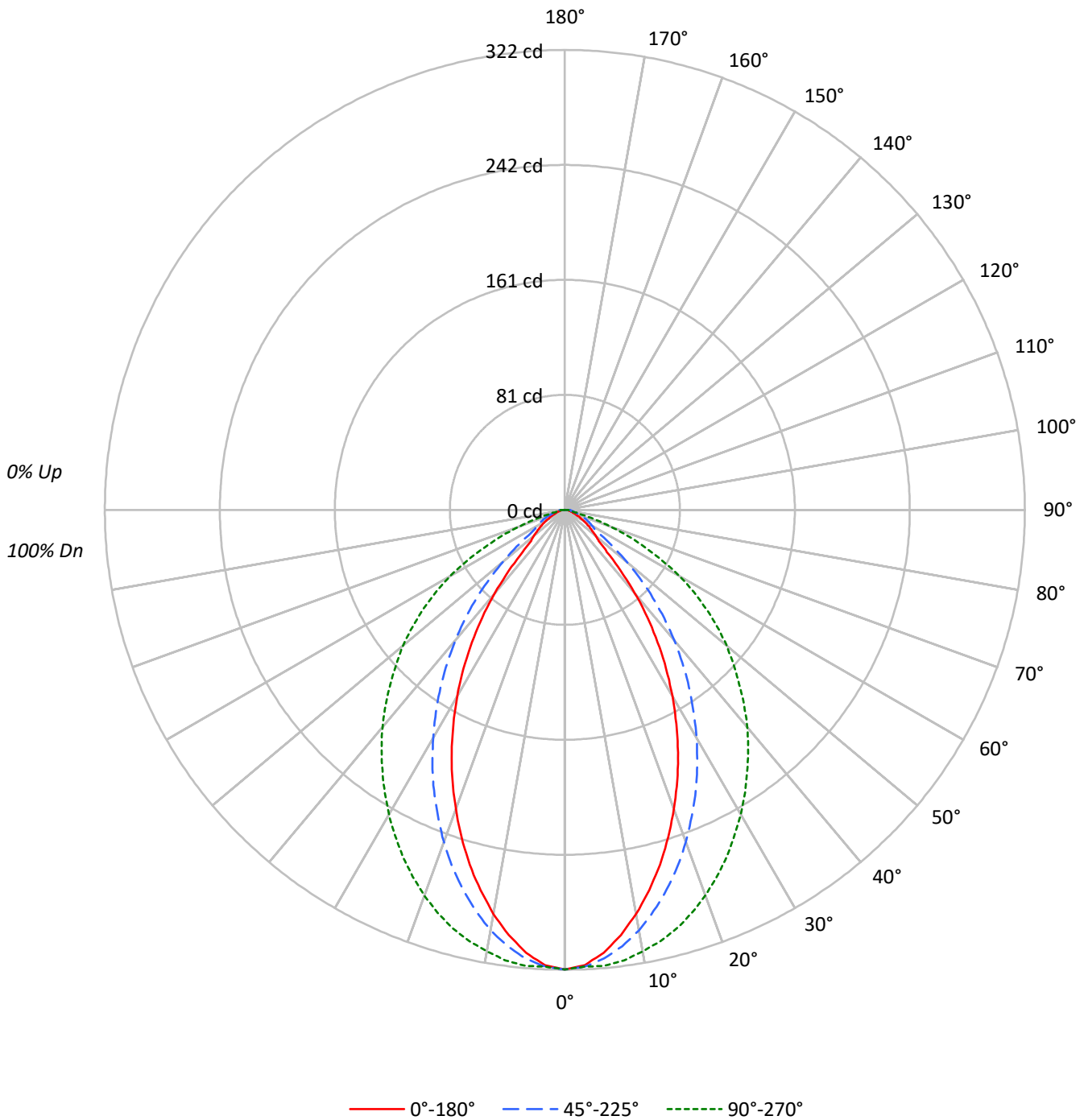
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 466.1 lumens  
Efficiency: N/A  
Efficacy: 37.3 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.5  
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									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	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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89													89															
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79													79															
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70													70															
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62													62															
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56													56															
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51													51															
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46													46															
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42													42															
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39													39															
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36													36															

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

	0°	45°	90°
0°	2216	2216	2216
5°	2151	2179	2214
10°	2009	2090	2195
15°	1833	1962	2162
20°	1634	1814	2105
25°	1424	1647	2037
30°	1197	1465	1957
35°	951	1273	1871
40°	686	1070	1786
45°	406	849	1682
50°	300	604	1582
55°	254	373	1449
60°	207	302	1277
65°	161	279	1008
70°	137	242	674
75°	128	210	274
80°	135	218	190
85°	166	324	213

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1682 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.7	6.4
10°-20°	77.9	16.7
20°-30°	101.8	21.8
30°-40°	99.2	21.3
40°-50°	74.4	16.0
50°-60°	46.6	10.0
60°-70°	24.3	5.2
70°-80°	8.8	1.9
80°-90°	3.5	0.7
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°	209.4	44.9
0°-40°	308.6	66.2
0°-60°	429.6	92.2
0°-90°	466.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	322	322	322	322	322	
5°	311	315	315	318	320	29
15°	257	265	275	292	303	72
25°	187	198	217	246	268	86
35°	113	125	152	192	223	70
45°	42	54	87	135	173	35
55°	21	22	31	81	121	19
65°	10	11	17	33	62	10
75°	5	6	8	8	10	5
85°	2	3	4	4	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	321.8	321.8	321.8	321.8	321.8
2.5°	319.1	322.2	320.1	320.1	320.1
5°	311.2	315.3	315.3	317.7	320.4
7.5°	300.3	305.1	308.1	313.9	318.1
10°	287.3	293.1	298.9	308.5	313.9
12.5°	272.6	279.4	287.6	301.0	309.2
15°	257.2	264.7	275.3	292.4	303.3
17.5°	240.4	249.3	262.0	282.5	295.8
20°	223.0	231.9	247.6	270.9	287.3
22.5°	205.5	215.1	232.2	258.5	278.0
25°	187.4	197.7	216.8	246.2	268.1
27.5°	168.9	179.5	200.7	233.6	257.2
30°	150.5	161.4	184.3	219.9	246.2
32.5°	132.0	143.6	167.9	205.9	234.6
35°	113.2	125.2	151.5	191.9	222.6
37.5°	95.1	107.0	135.1	177.5	210.7
40°	76.3	89.3	119.0	163.1	198.7
42.5°	57.8	71.1	102.9	148.8	185.7
45°	41.7	54.0	87.2	134.7	172.7
47.5°	32.1	39.0	71.1	120.4	160.1
50°	28.0	30.1	56.4	107.0	147.7
52.5°	24.3	25.6	42.4	94.7	134.4
55°	21.2	22.2	31.1	81.4	120.7
57.5°	17.8	19.2	24.6	68.4	106.7
60°	15.0	15.7	21.9	56.4	92.7
62.5°	12.3	13.0	19.5	44.5	76.9
65°	9.9	10.6	17.1	32.8	61.9
67.5°	8.2	8.5	14.4	23.3	47.5
70°	6.8	7.2	12.0	16.1	33.5
72.5°	5.8	6.8	9.6	11.6	21.2
75°	4.8	6.5	7.9	8.2	10.3
77.5°	4.1	6.2	6.5	6.5	5.8
80°	3.4	5.1	5.5	5.1	4.8
82.5°	2.7	4.1	4.4	4.4	3.8
85°	2.1	3.4	4.1	3.8	2.7
87.5°	1.4	3.1	3.4	3.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)