

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: P1061653

Luminaire Tested: S125RDR-S375D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061653  
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-S375D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

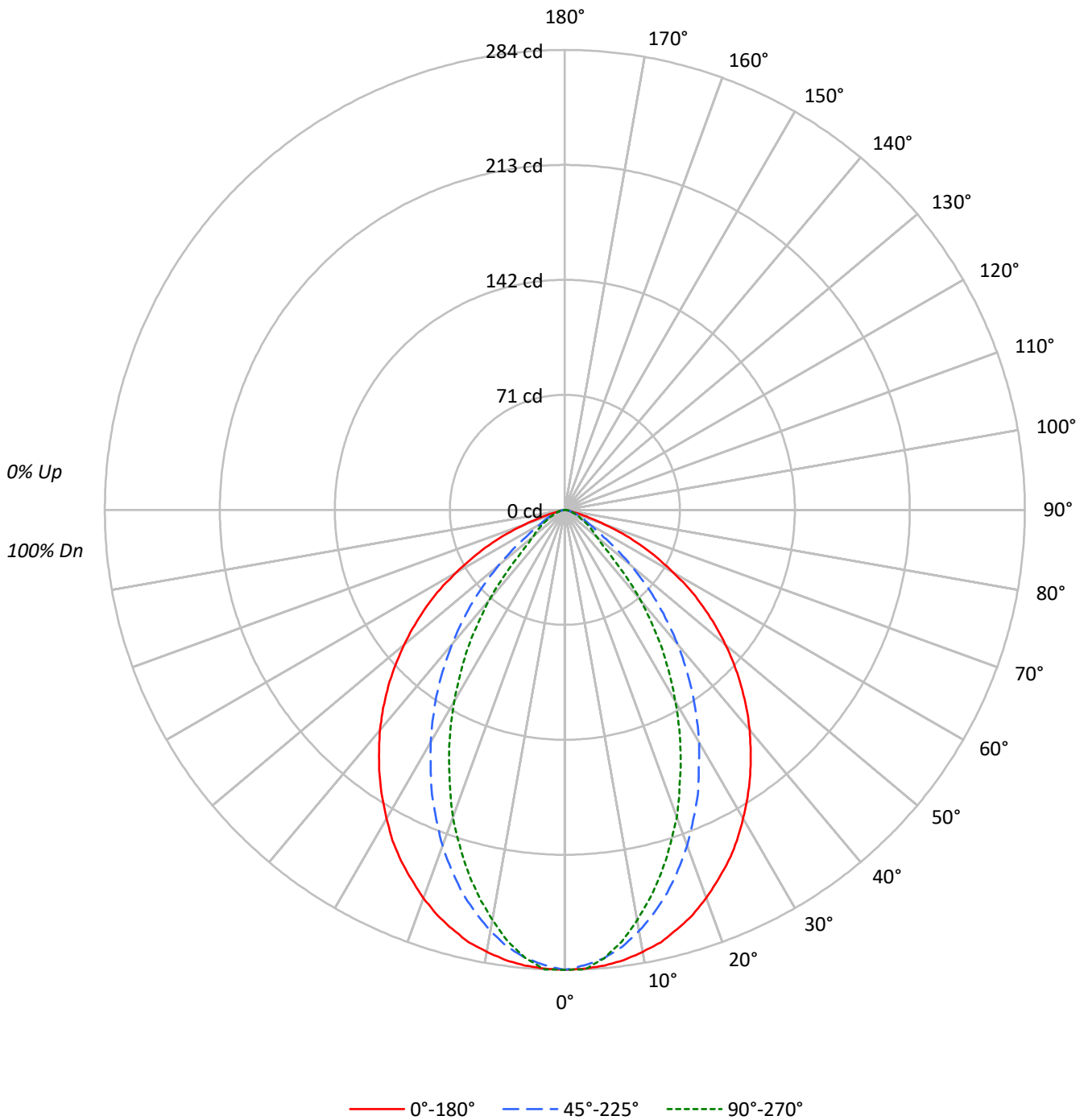
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 410.7 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): 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	
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°	1955	1955	1955
5°	1953	1921	1921
10°	1937	1846	1799
15°	1911	1744	1649
20°	1869	1618	1481
25°	1817	1475	1285
30°	1750	1317	1084
35°	1678	1152	879
40°	1595	973	652
45°	1501	780	393
50°	1387	572	271
55°	1252	351	226
60°	1063	238	179
65°	841	182	142
70°	529	131	117
75°	173	96	96
80°	56	71	87
85°	32	55	55

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1501 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.3	6.4
10°-20°	69.4	16.9
20°-30°	91.2	22.2
30°-40°	89.6	21.8
40°-50°	67.8	16.5
50°-60°	41.1	10.0
60°-70°	19.4	4.7
70°-80°	5.1	1.2
80°-90°	0.8	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°	186.9	45.5
0°-40°	276.5	67.3
0°-60°	385.5	93.9
0°-90°	410.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	410.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	284	284	284	284	284	
5°	282	282	278	278	278	27
15°	268	261	245	235	231	76
25°	239	221	194	176	169	110
35°	200	173	137	113	105	125
45°	154	121	80	51	40	119
55°	104	71	29	20	19	93
65°	52	26	11	9	9	51
75°	6	4	4	4	4	10
85°	0	0	1	1	1	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	284.0	284.0	284.0	284.0	284.0
2.5°	283.6	283.6	281.5	284.0	284.0
5°	282.5	281.8	277.9	278.2	277.9
7.5°	280.4	278.9	272.1	270.3	268.8
10°	277.1	274.2	264.1	259.8	257.3
12.5°	273.5	268.5	254.8	248.6	244.7
15°	268.1	260.9	244.7	235.3	231.3
17.5°	262.3	251.9	232.8	221.6	216.5
20°	255.1	242.9	220.8	207.1	202.1
22.5°	247.2	232.8	207.1	192.0	185.1
25°	239.2	221.2	194.1	176.1	169.2
27.5°	230.2	209.7	179.3	160.6	153.0
30°	220.1	198.1	165.6	146.1	136.4
32.5°	210.0	186.2	151.2	129.9	120.2
35°	199.6	172.8	137.1	112.9	104.6
37.5°	188.4	160.2	122.7	97.4	87.7
40°	177.5	147.6	108.3	81.6	72.5
42.5°	166.0	135.0	93.8	66.0	55.9
45°	154.1	121.2	80.1	50.9	40.4
47.5°	141.8	109.0	66.4	37.5	30.3
50°	129.5	96.0	53.4	27.8	25.3
52.5°	116.9	83.4	40.4	23.1	22.0
55°	104.3	71.4	29.2	19.8	18.8
57.5°	91.3	58.5	22.0	17.0	15.9
60°	77.2	46.9	17.3	14.1	13.0
62.5°	64.2	36.8	14.1	11.5	10.8
65°	51.6	26.3	11.2	9.4	8.7
67.5°	38.6	17.7	8.7	7.2	7.2
70°	26.3	11.5	6.5	5.8	5.8
72.5°	15.9	6.9	4.7	4.7	4.7
75°	6.5	4.3	3.6	3.6	3.6
77.5°	2.2	2.5	2.5	2.9	2.9
80°	1.4	1.4	1.8	2.2	2.2
82.5°	0.7	1.1	1.1	1.4	1.4
85°	0.4	0.4	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)