

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: P1061641

Luminaire Tested: S125RDR-S375D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061641  
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-S375D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

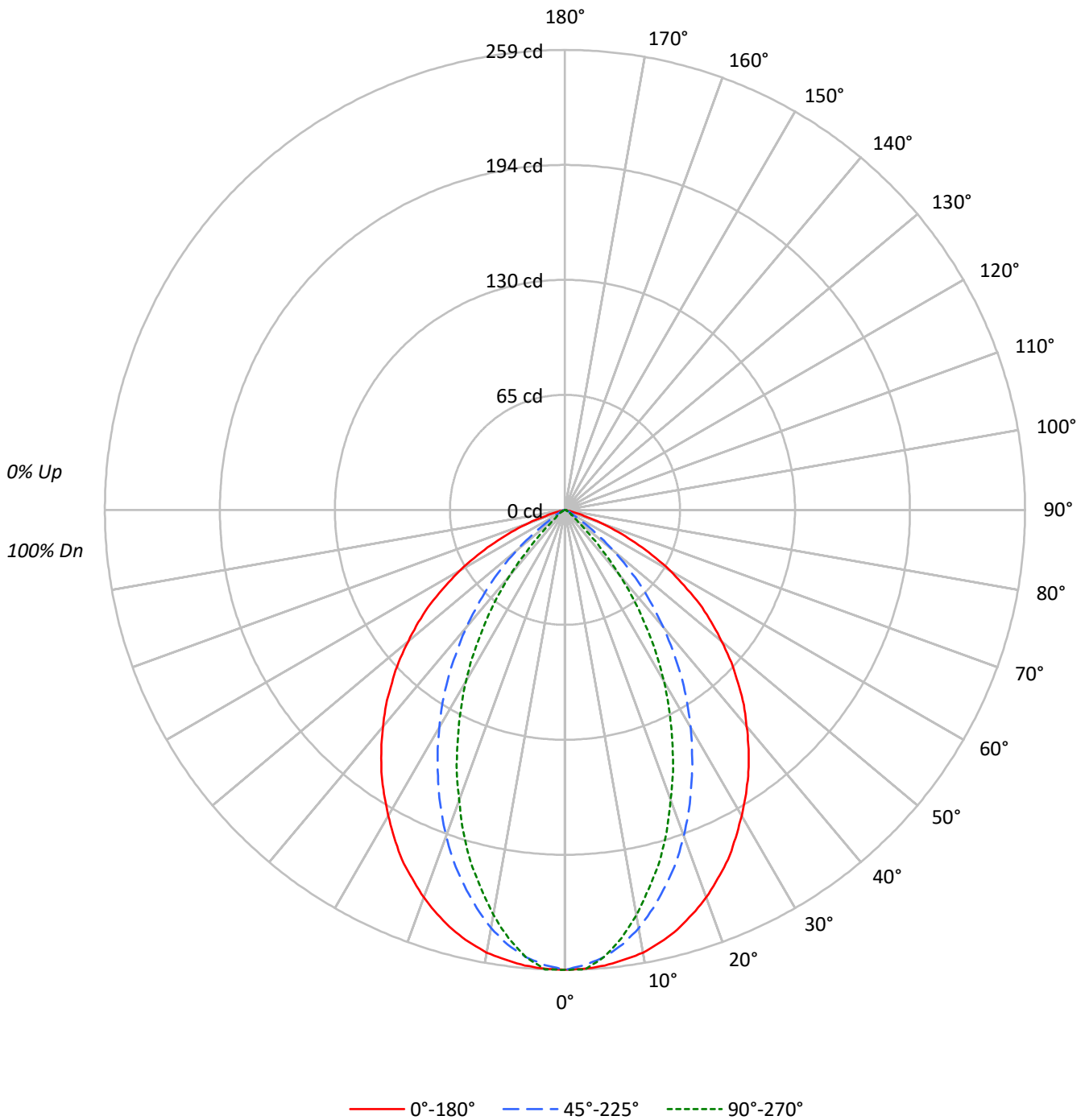
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 334.6 lumens  
Efficiency: N/A  
Efficacy: 26.8 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): 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	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°	1783	1783	1783
5°	1780	1747	1747
10°	1770	1672	1620
15°	1744	1561	1463
20°	1702	1432	1274
25°	1651	1282	1085
30°	1581	1125	886
35°	1514	959	663
40°	1431	774	430
45°	1341	585	186
50°	1233	374	70
55°	1112	164	49
60°	941	70	33
65°	712	44	16
70°	433	20	6
75°	90	8	8
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1341 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.9	7.1
10°-20°	62.2	18.6
20°-30°	79.9	23.9
30°-40°	75.2	22.5
40°-50°	52.6	15.7
50°-60°	28.1	8.4
60°-70°	11.2	3.4
70°-80°	1.4	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°	166.0	49.6
0°-40°	241.2	72.1
0°-60°	321.9	96.2
0°-90°	334.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	334.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	259	259	259	259	259	
5°	258	257	253	254	253	24
15°	245	237	219	209	205	69
25°	217	198	169	150	143	100
35°	180	151	114	88	79	112
45°	138	103	60	29	19	106
55°	93	57	14	5	4	82
65°	44	17	3	1	1	44
75°	3	1	0	0	0	7
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°	259.0	259.0	259.0	259.0	259.0
2.5°	258.7	259.0	256.6	258.7	259.0
5°	257.6	256.9	252.8	253.5	252.8
7.5°	255.6	253.9	247.0	244.6	243.3
10°	253.2	249.4	239.2	234.1	231.7
12.5°	249.4	244.0	229.6	221.7	218.3
15°	244.6	236.8	219.0	208.8	205.3
17.5°	238.8	228.6	208.1	195.4	190.3
20°	232.3	218.7	195.4	180.4	173.9
22.5°	224.8	209.1	182.5	165.7	159.2
25°	217.3	198.2	168.8	150.3	142.8
27.5°	208.1	186.9	155.1	135.3	127.1
30°	198.9	175.6	141.5	119.9	111.4
32.5°	189.6	163.7	127.8	103.9	95.3
35°	180.1	151.4	114.1	88.2	78.9
37.5°	169.8	139.1	99.4	73.1	63.6
40°	159.2	127.1	86.1	58.4	47.8
42.5°	149.0	115.1	72.8	44.1	32.5
45°	137.7	103.2	60.1	29.0	19.1
47.5°	127.1	91.6	47.2	16.7	9.9
50°	115.1	79.6	34.9	8.9	6.5
52.5°	103.9	68.0	23.2	5.8	5.1
55°	92.6	56.7	13.7	4.8	4.1
57.5°	79.6	45.8	7.5	3.8	3.1
60°	68.3	35.9	5.1	2.7	2.4
62.5°	55.4	26.3	3.8	2.1	1.7
65°	43.7	17.4	2.7	1.4	1.0
67.5°	32.5	10.3	1.7	0.7	0.7
70°	21.5	5.5	1.0	0.3	0.3
72.5°	11.3	2.4	0.7	0.3	0.3
75°	3.4	1.0	0.3	0.3	0.3
77.5°	0.0	0.3	0.0	0.0	0.3
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)