

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: P1061668

Luminaire Tested: S125RDR-S375D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061668  
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-S375D950-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: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

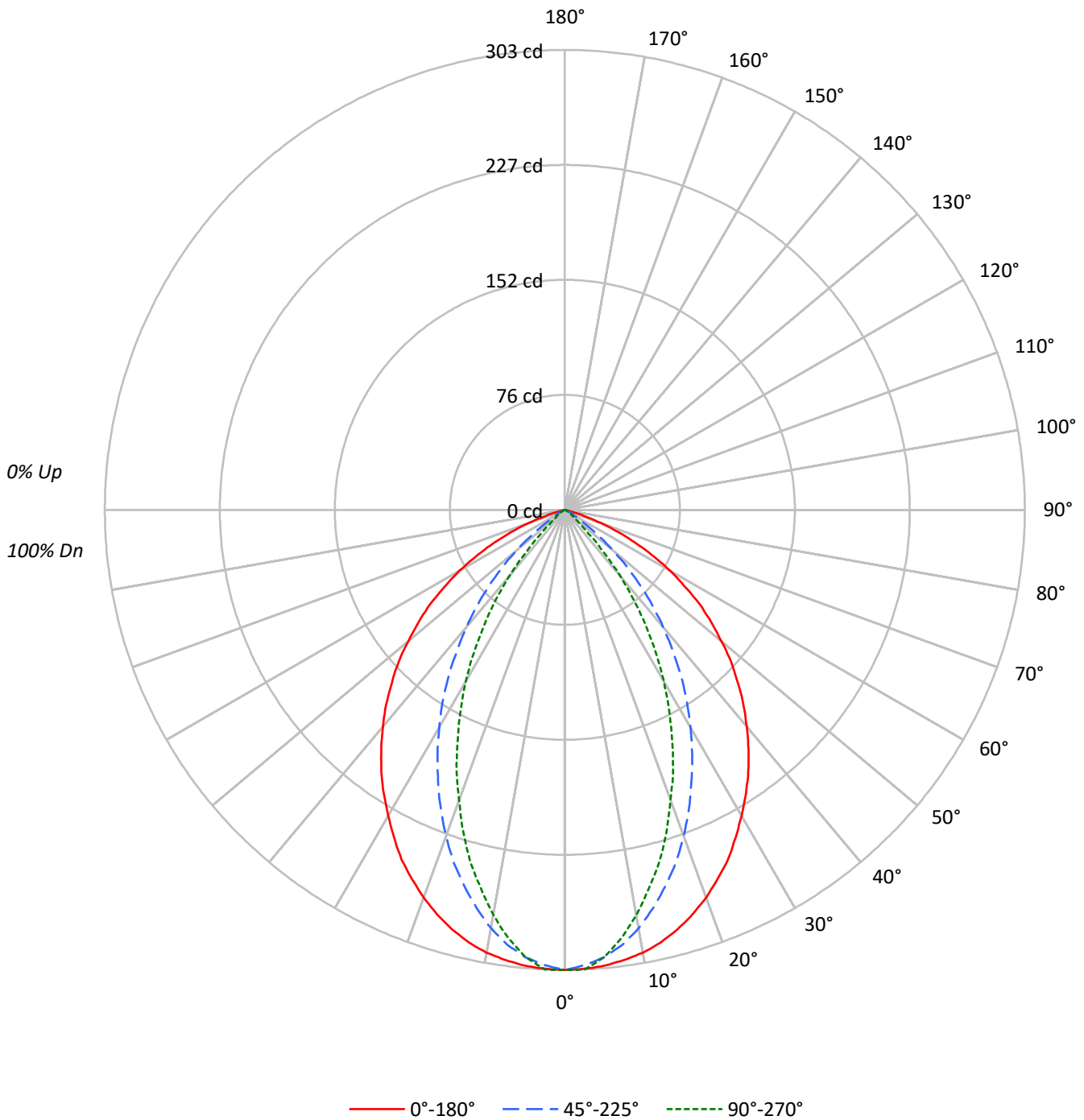
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 391.5 lumens  
Efficiency: N/A  
Efficacy: 31.3 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°	2087	2087	2087
5°	2084	2045	2045
10°	2072	1957	1895
15°	2041	1827	1713
20°	1992	1676	1491
25°	1932	1500	1269
30°	1850	1316	1036
35°	1771	1122	777
40°	1674	906	503
45°	1569	685	218
50°	1443	437	81
55°	1300	192	58
60°	1102	83	39
65°	834	52	20
70°	507	24	8
75°	106	11	11
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1569 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.9	7.1
10°-20°	72.8	18.6
20°-30°	93.5	23.9
30°-40°	88.0	22.5
40°-50°	61.5	15.7
50°-60°	32.9	8.4
60°-70°	13.1	3.4
70°-80°	1.7	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°	194.3	49.6
0°-40°	282.3	72.1
0°-60°	376.7	96.2
0°-90°	391.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	391.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	303	303	303	303	303	
5°	302	301	296	297	296	29
15°	286	277	256	244	240	81
25°	254	232	198	176	167	117
35°	211	177	134	103	92	131
45°	161	121	70	34	22	124
55°	108	66	16	6	5	96
65°	51	20	3	2	1	51
75°	4	1	0	0	0	8
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°	303.1	303.1	303.1	303.1	303.1
2.5°	302.7	303.1	300.3	302.7	303.1
5°	301.5	300.7	295.9	296.7	295.9
7.5°	299.1	297.1	289.1	286.3	284.7
10°	296.3	291.9	279.9	273.9	271.1
12.5°	291.9	285.5	268.7	259.5	255.5
15°	286.3	277.1	256.3	244.3	240.3
17.5°	279.5	267.5	243.5	228.7	222.7
20°	271.9	255.9	228.7	211.1	203.5
22.5°	263.1	244.7	213.5	193.9	186.3
25°	254.3	231.9	197.5	175.9	167.1
27.5°	243.5	218.7	181.5	158.3	148.7
30°	232.7	205.5	165.5	140.3	130.3
32.5°	221.9	191.5	149.5	121.5	111.5
35°	210.7	177.1	133.5	103.2	92.4
37.5°	198.7	162.7	116.3	85.6	74.4
40°	186.3	148.7	100.8	68.4	56.0
42.5°	174.3	134.7	85.2	51.6	38.0
45°	161.1	120.7	70.4	34.0	22.4
47.5°	148.7	107.1	55.2	19.6	11.6
50°	134.7	93.2	40.8	10.4	7.6
52.5°	121.5	79.6	27.2	6.8	6.0
55°	108.3	66.4	16.0	5.6	4.8
57.5°	93.2	53.6	8.8	4.4	3.6
60°	80.0	42.0	6.0	3.2	2.8
62.5°	64.8	30.8	4.4	2.4	2.0
65°	51.2	20.4	3.2	1.6	1.2
67.5°	38.0	12.0	2.0	0.8	0.8
70°	25.2	6.4	1.2	0.4	0.4
72.5°	13.2	2.8	0.8	0.4	0.4
75°	4.0	1.2	0.4	0.4	0.4
77.5°	0.0	0.4	0.0	0.0	0.4
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)