

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: P1060536

Luminaire Tested: S124RDR-S575D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S575D950-X4F0-XX-UDD-BVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

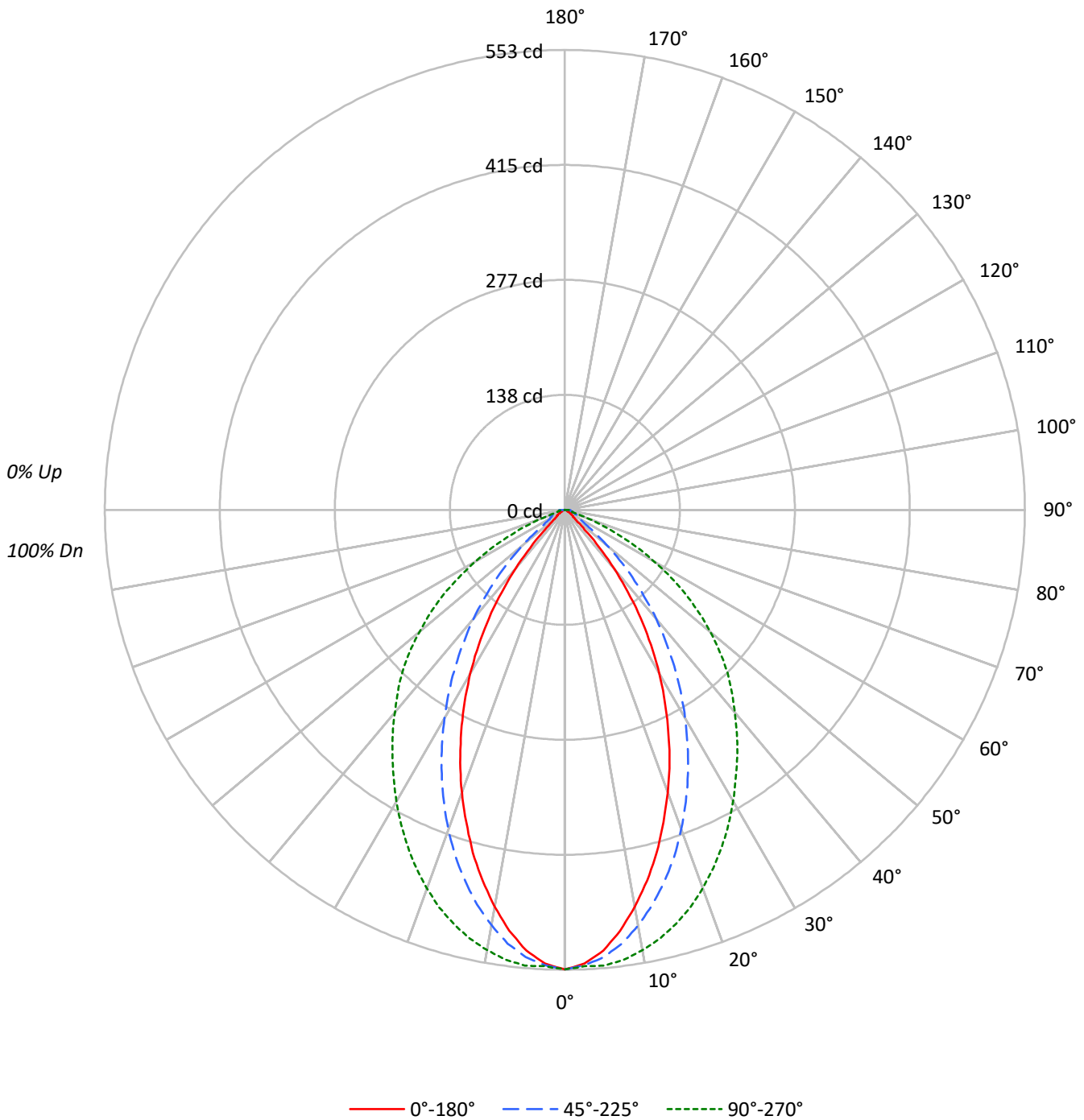
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 696.4 lumens  
Efficiency: N/A  
Efficacy: 35.5 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.96  
Luminous Opening: Rectangular (W 0.31' 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	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	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72				
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65				
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59				
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54				
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49				
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45				
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39				

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

	0°	45°	90°
0°	4759	4759	4759
5°	4597	4664	4754
10°	4236	4435	4701
15°	3804	4122	4597
20°	3316	3750	4440
25°	2797	3327	4245
30°	2257	2876	4024
35°	1670	2406	3797
40°	1035	1918	3572
45°	410	1398	3365
50°	182	877	3058
55°	146	458	2677
60°	100	346	2134
65°	65	344	1467
70°	65	310	685
75°	87	303	303
80°	129	352	352
85°	257	701	514

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3365 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.7	7.3
10°-20°	130.8	18.8
20°-30°	165.1	23.7
30°-40°	151.5	21.8
40°-50°	103.2	14.8
50°-60°	56.2	8.1
60°-70°	24.3	3.5
70°-80°	8.9	1.3
80°-90°	5.7	0.8
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°	346.6	49.8
0°-40°	498.1	71.5
0°-60°	657.5	94.4
0°-90°	696.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	553	553	553	553	553	
5°	532	539	540	545	550	49
15°	427	442	462	496	516	119
25°	294	315	350	406	447	135
35°	159	182	229	302	361	98
45°	34	56	115	204	276	31
55°	10	10	30	112	178	9
65°	3	4	17	35	72	4
75°	3	8	9	9	9	3
85°	3	6	7	7	5	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	552.6	552.6	552.6	552.6	552.6
2.5°	546.1	552.6	548.0	549.3	549.3
5°	531.8	538.9	539.6	545.4	550.0
7.5°	510.4	520.8	526.0	537.6	545.4
10°	484.5	496.8	507.2	527.3	537.6
12.5°	456.6	470.8	486.4	513.0	527.9
15°	426.7	441.7	462.4	495.5	515.6
17.5°	393.7	411.8	437.1	476.7	501.3
20°	361.9	380.0	409.2	454.0	484.5
22.5°	328.8	347.6	380.0	430.0	466.3
25°	294.4	315.2	350.2	406.0	446.8
27.5°	260.7	282.8	319.7	380.7	426.1
30°	227.0	249.0	289.2	354.8	404.7
32.5°	192.6	215.3	258.8	327.5	382.6
35°	158.9	182.2	228.9	301.6	361.2
37.5°	124.5	149.2	199.1	276.3	339.8
40°	92.1	116.7	170.6	251.0	317.8
42.5°	61.6	86.3	141.4	226.3	297.0
45°	33.7	56.4	114.8	203.6	276.3
47.5°	18.2	31.1	88.9	181.6	252.9
50°	13.6	16.9	65.5	158.2	228.3
52.5°	11.7	13.0	45.4	133.6	203.6
55°	9.7	10.4	30.5	112.2	178.3
57.5°	7.8	8.4	22.7	90.8	151.1
60°	5.8	7.1	20.1	70.0	123.9
62.5°	4.5	5.8	18.8	51.2	97.9
65°	3.2	4.5	16.9	35.0	72.0
67.5°	3.2	5.2	14.3	22.7	48.6
70°	2.6	7.1	12.3	14.9	27.2
72.5°	2.6	7.8	10.4	10.4	10.4
75°	2.6	8.4	9.1	9.1	9.1
77.5°	2.6	7.8	8.4	7.8	7.8
80°	2.6	7.1	7.1	7.1	7.1
82.5°	2.6	6.5	7.1	7.1	5.8
85°	2.6	5.8	7.1	7.1	5.2
87.5°	1.9	5.8	6.5	6.5	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)