

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: P1060535

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)  
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-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

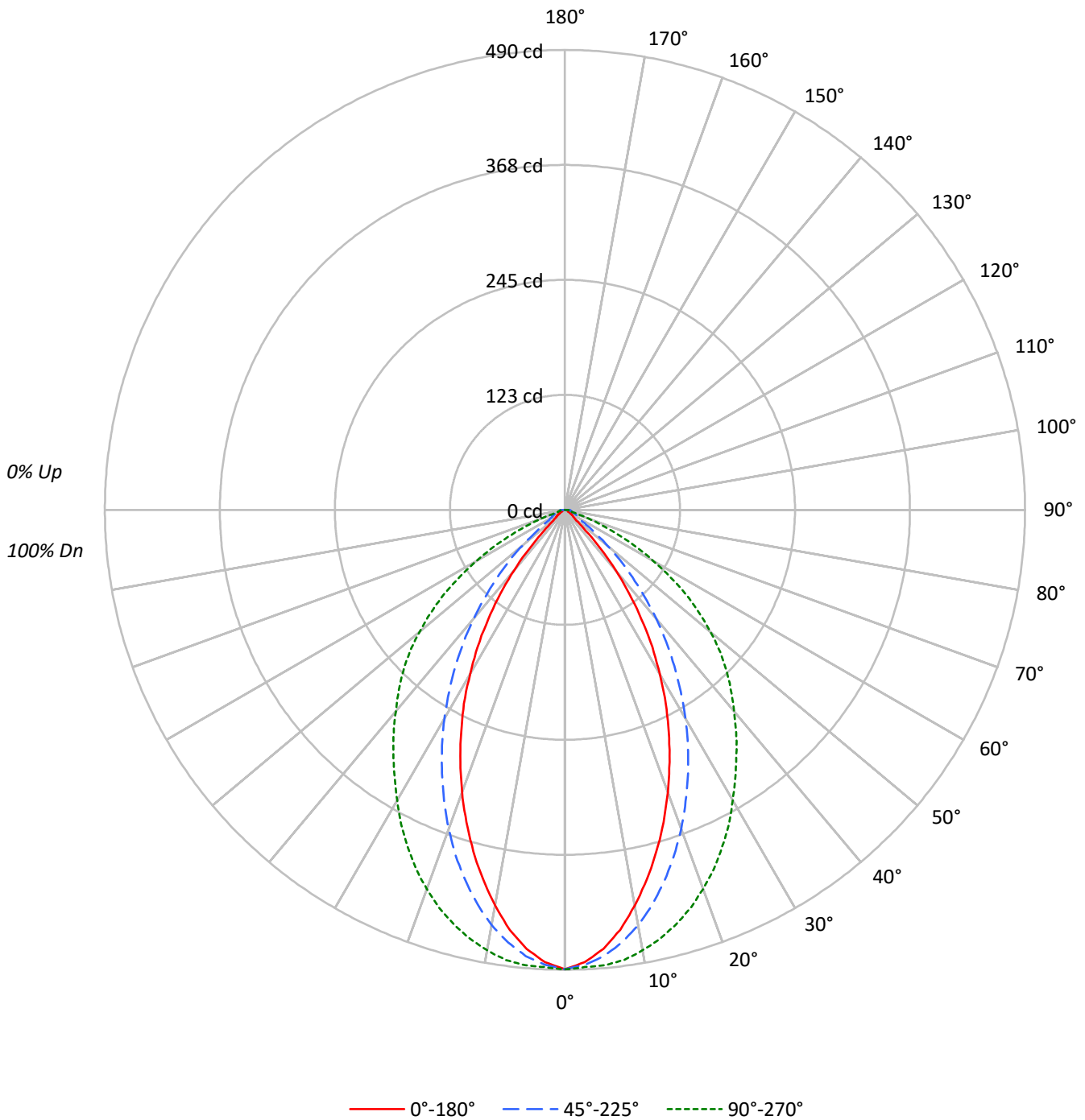
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 614.4 lumens  
Efficiency: N/A  
Efficacy: 31.3 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97  
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	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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	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°	4215	4215	4215
5°	4058	4125	4210
10°	3742	3929	4167
15°	3358	3647	4075
20°	2935	3315	3940
25°	2483	2944	3764
30°	2006	2553	3553
35°	1493	2134	3347
40°	948	1691	3149
45°	379	1240	2969
50°	165	790	2710
55°	126	408	2366
60°	90	279	1876
65°	65	277	1282
70°	65	244	587
75°	87	260	236
80°	129	288	258
85°	257	514	385

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2969 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.8	7.3
10°-20°	115.6	18.8
20°-30°	146.0	23.8
30°-40°	134.1	21.8
40°-50°	91.4	14.9
50°-60°	49.6	8.1
60°-70°	21.0	3.4
70°-80°	7.3	1.2
80°-90°	4.6	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°	306.4	49.9
0°-40°	440.5	71.7
0°-60°	581.5	94.6
0°-90°	614.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	614.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	490	490	490	490	490	
5°	469	477	477	481	487	44
15°	377	389	409	438	457	105
25°	261	278	310	358	396	119
35°	142	161	203	266	318	88
45°	31	50	102	180	244	29
55°	8	9	27	99	158	8
65°	3	4	14	31	63	3
75°	3	7	8	7	7	3
85°	3	5	5	5	4	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	489.5	489.5	489.5	489.5	489.5
2.5°	482.4	488.2	485.0	486.3	487.6
5°	469.4	476.6	477.2	481.1	487.0
7.5°	451.3	459.7	464.9	474.6	483.7
10°	427.9	438.3	449.3	464.9	476.6
12.5°	403.3	414.3	430.5	452.6	468.1
15°	376.7	389.0	409.1	438.3	457.1
17.5°	348.8	362.5	386.4	420.8	444.8
20°	320.3	335.2	361.8	400.7	429.9
22.5°	291.1	306.7	335.9	380.0	414.3
25°	261.3	278.2	309.9	357.9	396.2
27.5°	232.8	248.3	283.4	335.9	378.0
30°	201.7	219.2	256.8	313.2	357.3
32.5°	173.1	190.0	229.5	289.8	337.8
35°	142.0	160.8	203.0	266.5	318.4
37.5°	112.8	131.0	177.0	244.4	299.6
40°	84.3	103.1	150.4	222.4	280.1
42.5°	56.4	76.5	125.1	199.7	262.0
45°	31.1	49.9	101.8	180.3	243.8
47.5°	16.2	27.2	79.8	160.8	224.3
50°	12.3	14.9	59.0	139.4	202.3
52.5°	10.4	11.0	40.2	118.0	180.3
55°	8.4	9.1	27.2	99.2	157.6
57.5°	6.5	7.1	19.5	81.1	132.3
60°	5.2	5.8	16.2	62.2	108.9
62.5°	3.9	4.5	15.6	46.0	85.6
65°	3.2	3.9	13.6	31.1	62.9
67.5°	2.6	3.9	11.7	20.1	42.1
70°	2.6	5.2	9.7	13.0	23.3
72.5°	2.6	5.8	8.4	8.4	8.4
75°	2.6	7.1	7.8	7.1	7.1
77.5°	2.6	6.5	6.5	6.5	6.5
80°	2.6	5.8	5.8	5.8	5.2
82.5°	2.6	5.2	5.8	5.8	4.5
85°	2.6	5.2	5.2	5.2	3.9
87.5°	1.9	5.2	5.2	5.2	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)