

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: P1060423

Luminaire Tested: S124RDR-S350D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060423  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S350D927-X4F0-XX-UDD-WVL-B  
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

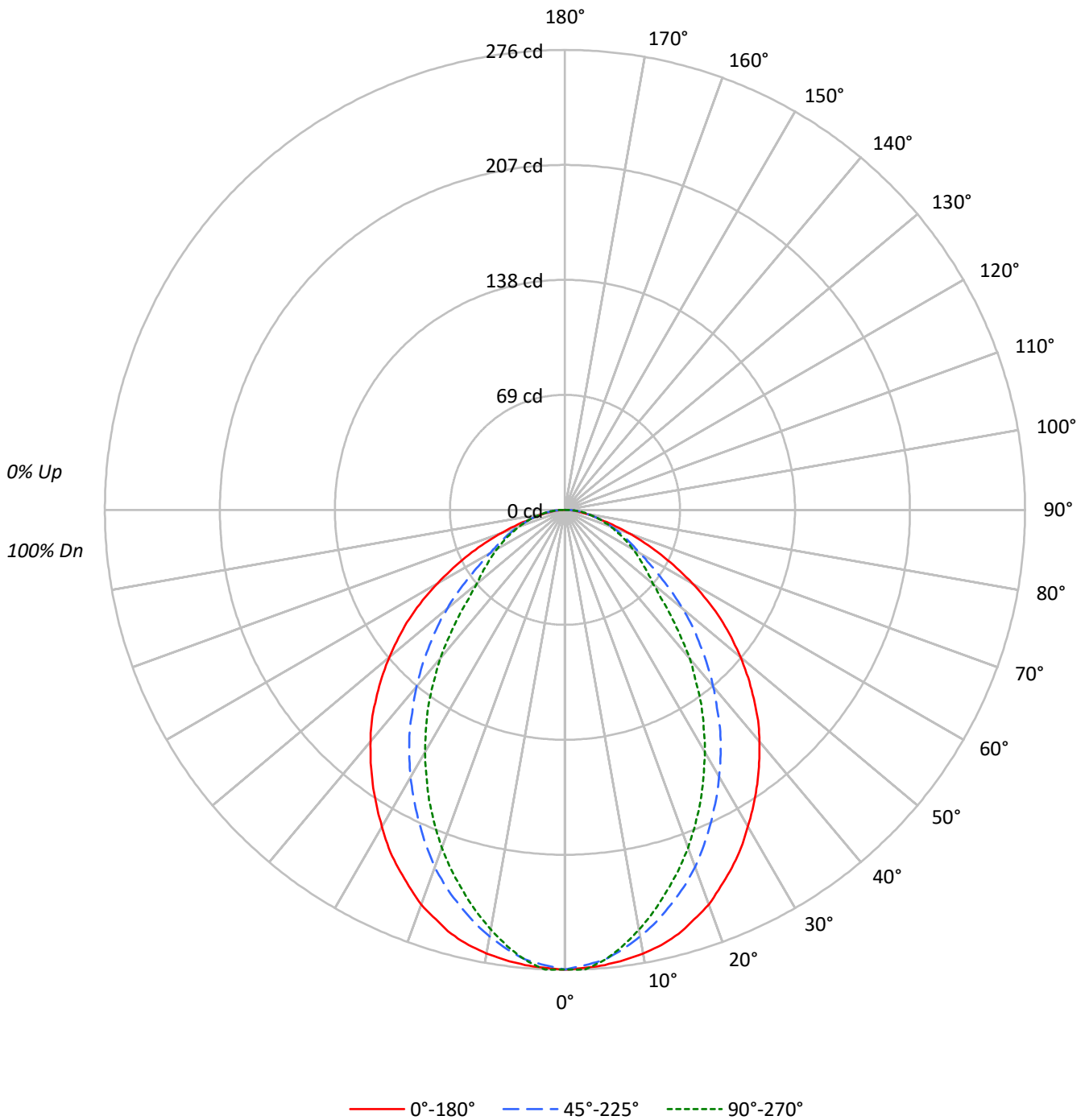
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 531.9 lumens  
Efficiency: N/A  
Efficacy: 42.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12  
Luminous Opening: Rectangular (W 0.31' 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	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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76	74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				

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

	0°	45°	90°
0°	2376	2376	2376
5°	2370	2343	2345
10°	2364	2273	2237
15°	2349	2188	2109
20°	2311	2091	1978
25°	2252	1968	1830
30°	2183	1841	1669
35°	2113	1707	1499
40°	2040	1556	1308
45°	1950	1398	1094
50°	1841	1234	924
55°	1713	1046	857
60°	1519	887	809
65°	1294	819	766
70°	1012	758	728
75°	689	702	702
80°	595	660	674
85°	514	642	701

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1950 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.7	4.8
10°-20°	69.7	13.1
20°-30°	96.8	18.2
30°-40°	103.7	19.5
40°-50°	91.9	17.3
50°-60°	69.3	13.0
60°-70°	44.8	8.4
70°-80°	23.0	4.3
80°-90°	7.1	1.3
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°	192.1	36.1
0°-40°	295.9	55.6
0°-60°	457.0	85.9
0°-90°	531.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	276	276	276	276	276	
5°	274	275	271	271	271	26
15°	264	258	245	239	237	74
25°	237	224	207	196	193	109
35°	201	183	162	148	143	126
45°	160	139	115	97	90	123
55°	114	95	70	59	57	101
65°	64	51	40	38	38	63
75°	21	22	21	21	21	25
85°	5	6	6	7	7	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	275.9	275.9	275.9	275.9	275.9
2.5°	275.2	276.2	273.6	275.5	276.2
5°	274.2	274.6	271.0	271.3	271.3
7.5°	272.6	272.0	266.1	264.5	264.2
10°	270.4	268.4	260.0	256.7	255.8
12.5°	267.4	263.9	253.2	248.6	246.7
15°	263.5	257.7	245.4	239.2	236.6
17.5°	257.7	250.3	237.3	229.5	226.6
20°	252.2	242.2	228.2	218.5	215.9
22.5°	244.4	233.7	217.8	207.5	204.2
25°	237.0	224.3	207.1	196.1	192.6
27.5°	228.9	214.6	196.1	184.5	179.9
30°	219.5	204.2	185.1	172.8	167.9
32.5°	210.4	194.2	173.8	160.1	155.0
35°	201.0	182.8	162.4	147.8	142.6
37.5°	191.3	172.1	149.8	135.5	128.7
40°	181.5	161.4	138.4	122.2	116.4
42.5°	171.5	150.4	126.7	109.9	102.4
45°	160.1	139.4	114.8	96.9	89.8
47.5°	149.1	128.7	103.7	84.3	77.8
50°	137.4	117.3	92.1	73.3	69.0
52.5°	125.8	105.7	80.7	64.8	62.9
55°	114.1	95.0	69.7	58.7	57.1
57.5°	101.1	84.0	60.0	53.2	51.9
60°	88.2	72.0	51.5	48.0	47.0
62.5°	75.5	61.6	45.7	42.8	42.1
65°	63.5	51.2	40.2	37.9	37.6
67.5°	51.9	42.1	35.0	33.7	33.1
70°	40.2	33.7	30.1	29.5	28.9
72.5°	29.8	27.2	25.6	25.3	25.0
75°	20.7	21.7	21.1	21.1	21.1
77.5°	16.5	16.9	17.2	17.5	17.2
80°	12.0	13.0	13.3	13.9	13.6
82.5°	8.4	9.1	10.0	10.4	10.7
85°	5.2	5.5	6.5	7.1	7.1
87.5°	2.3	2.6	3.2	3.9	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)