

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: P1060591

Luminaire Tested: S124RDR-S795D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D930-X4F0-XX-UDD-SVL-B  
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

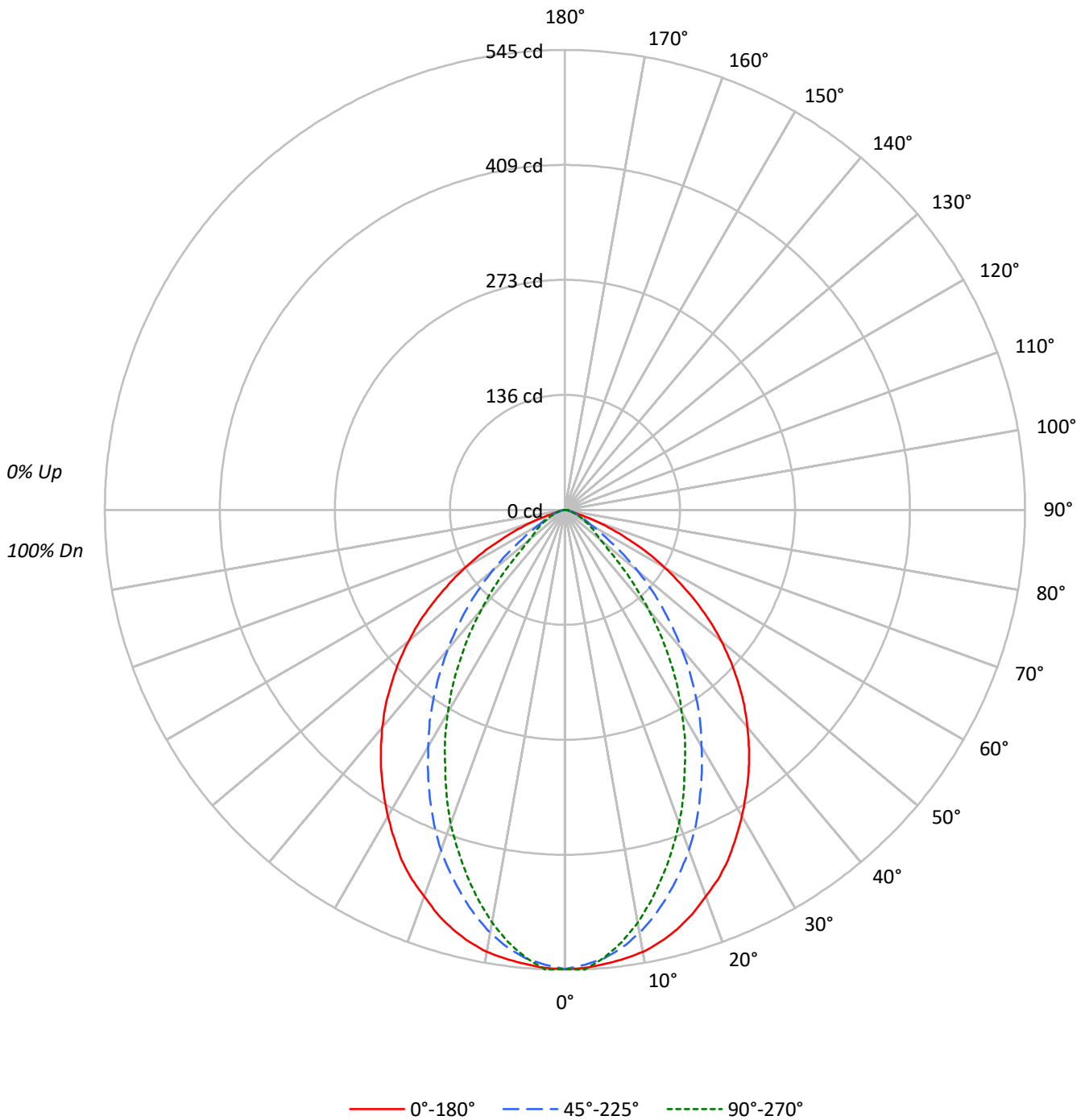
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 802.4 lumens  
Efficiency: N/A  
Efficacy: 31.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02  
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 25.8  
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	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	4686	4686	4686
5°	4671	4612	4605
10°	4652	4451	4343
15°	4585	4210	3997
20°	4467	3933	3624
25°	4348	3591	3190
30°	4169	3217	2751
35°	3988	2845	2273
40°	3783	2421	1723
45°	3538	1979	1157
50°	3234	1499	719
55°	2842	989	610
60°	2349	608	501
65°	1701	469	405
70°	927	347	310
75°	203	256	279
80°	154	188	228
85°	148	148	227

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3538 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.4	6.3
10°-20°	133.9	16.7
20°-30°	177.4	22.1
30°-40°	176.1	21.9
40°-50°	135.5	16.9
50°-60°	80.8	10.1
60°-70°	36.7	4.6
70°-80°	9.5	1.2
80°-90°	2.1	0.3
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°	361.7	45.1
0°-40°	537.8	67.0
0°-60°	754.1	94.0
0°-90°	802.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	802.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	540	541	534	534	533	51
15°	514	501	472	456	448	145
25°	458	425	378	346	336	210
35°	379	332	271	229	216	237
45°	290	234	162	113	95	224
55°	189	135	66	41	41	169
65°	84	50	23	20	20	84
75°	6	8	8	8	8	13
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	544.2	544.2	544.2	544.2	544.2
2.5°	543.4	544.2	539.6	543.4	545.0
5°	540.4	541.1	533.5	533.5	532.7
7.5°	536.5	535.0	522.8	518.2	516.6
10°	532.0	526.6	509.0	499.8	496.7
12.5°	524.3	515.9	492.1	479.1	473.7
15°	514.3	501.3	472.2	456.1	448.4
17.5°	502.1	486.0	451.5	430.8	422.3
20°	487.5	466.0	429.2	403.2	395.5
22.5°	473.7	446.9	404.7	374.8	366.4
25°	457.6	424.6	377.9	346.5	335.7
27.5°	438.4	403.2	351.1	318.9	308.1
30°	419.3	380.2	323.5	289.7	276.7
32.5°	399.3	356.4	298.2	259.8	247.6
35°	379.4	331.9	270.6	229.2	216.2
37.5°	358.0	307.4	243.0	200.1	185.5
40°	336.5	283.6	215.4	171.7	153.3
42.5°	314.3	259.1	188.6	142.6	124.2
45°	290.5	233.8	162.5	113.4	95.0
47.5°	266.7	210.0	136.4	85.1	68.2
50°	241.4	184.7	111.9	62.1	53.7
52.5°	216.2	160.2	87.4	48.3	46.0
55°	189.3	134.9	65.9	41.4	40.6
57.5°	161.7	111.9	47.5	36.0	34.5
60°	136.4	90.4	35.3	30.7	29.1
62.5°	110.4	68.2	29.1	25.3	23.8
65°	83.5	49.8	23.0	19.9	19.9
67.5°	60.6	33.7	18.4	16.1	15.3
70°	36.8	20.7	13.8	13.0	12.3
72.5°	18.4	12.3	10.7	10.0	10.0
75°	6.1	7.7	7.7	8.4	8.4
77.5°	4.6	5.4	5.4	6.1	6.1
80°	3.1	3.8	3.8	4.6	4.6
82.5°	2.3	2.3	3.1	3.1	3.8
85°	1.5	1.5	1.5	2.3	2.3
87.5°	0.8	0.8	0.8	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)