

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: P1060583

Luminaire Tested: S124RDR-S795D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D927-X4F0-XX-UDD-SVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

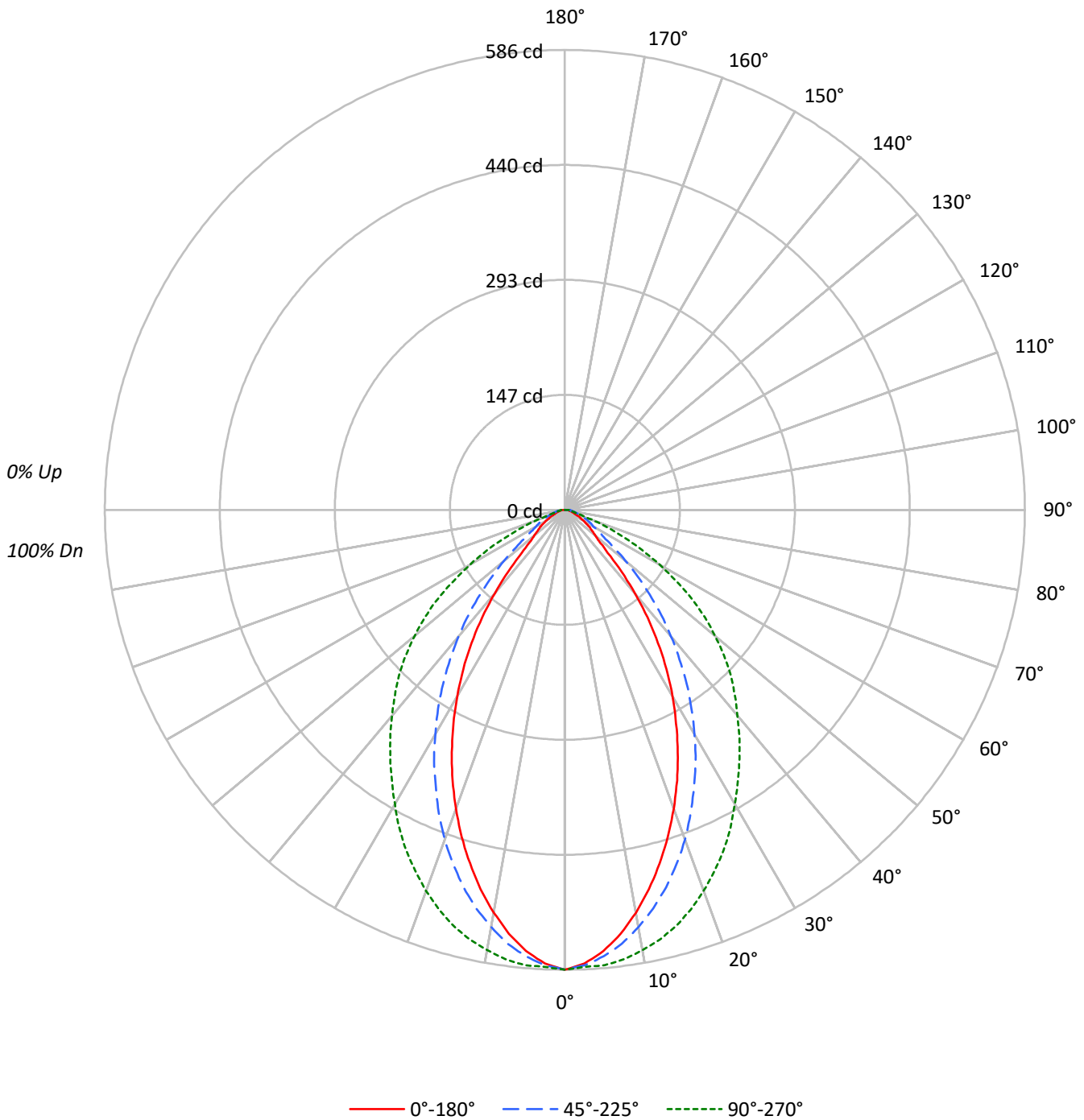
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 823.9 lumens  
Efficiency: N/A  
Efficacy: 31.9 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63				63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57				57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43				43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	5045	5045	5045
5°	4878	4936	5033
10°	4556	4719	4980
15°	4160	4439	4891
20°	3716	4099	4734
25°	3237	3697	4547
30°	2727	3283	4306
35°	2178	2845	4075
40°	1567	2363	3847
45°	944	1861	3640
50°	679	1348	3345
55°	570	907	2965
60°	462	718	2389
65°	365	654	1716
70°	320	544	919
75°	296	496	446
80°	298	516	407
85°	445	741	514

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3640 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.8	6.5
10°-20°	140.9	17.1
20°-30°	182.9	22.2
30°-40°	175.8	21.3
40°-50°	130.4	15.8
50°-60°	79.9	9.7
60°-70°	38.8	4.7
70°-80°	14.8	1.8
80°-90°	6.6	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°	377.6	45.8
0°-40°	553.4	67.2
0°-60°	763.7	92.7
0°-90°	823.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	823.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	564	572	571	576	582	53
15°	467	480	498	528	549	130
25°	341	358	389	439	479	156
35°	207	226	271	335	388	128
45°	78	97	153	233	299	64
55°	38	40	60	136	198	34
65°	18	19	32	51	84	19
75°	9	14	15	13	13	10
85°	4	8	8	7	5	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	585.9	585.9	585.9	585.9	585.9
2.5°	578.5	585.2	580.7	582.2	582.9
5°	564.3	572.5	571.0	576.2	582.2
7.5°	544.9	554.6	557.6	568.0	577.7
10°	521.1	533.0	539.7	556.8	569.5
12.5°	495.0	507.6	520.3	543.4	560.6
15°	466.6	480.1	497.9	527.8	548.6
17.5°	436.8	451.7	473.3	509.1	533.7
20°	405.5	421.2	447.3	486.8	516.6
22.5°	373.5	389.9	418.9	462.9	497.9
25°	340.7	357.8	389.1	439.1	478.6
27.5°	307.1	325.0	360.8	413.7	457.0
30°	274.3	291.5	330.2	387.6	433.1
32.5°	240.8	258.7	300.4	360.8	410.0
35°	207.2	225.9	270.6	334.7	387.6
37.5°	172.9	193.1	240.0	309.4	365.3
40°	139.4	158.8	210.2	283.3	342.2
42.5°	106.6	127.5	181.9	257.2	320.5
45°	77.5	96.9	152.8	233.3	298.9
47.5°	58.1	70.1	126.0	211.0	275.1
50°	50.7	52.9	100.6	186.4	249.7
52.5°	44.0	45.5	78.3	159.5	224.4
55°	38.0	39.5	60.4	136.4	197.5
57.5°	32.1	33.5	48.5	114.1	167.0
60°	26.8	28.3	41.7	90.9	138.7
62.5°	22.4	23.1	37.3	69.3	111.1
65°	17.9	19.4	32.1	50.7	84.2
67.5°	14.9	16.4	26.1	35.0	58.9
70°	12.7	16.4	21.6	24.6	36.5
72.5°	10.4	14.9	17.9	17.1	17.1
75°	8.9	14.2	14.9	13.4	13.4
77.5°	7.5	12.7	11.9	11.2	10.4
80°	6.0	10.4	10.4	8.9	8.2
82.5°	5.2	8.2	8.2	8.2	6.7
85°	4.5	7.5	7.5	6.7	5.2
87.5°	3.0	6.0	6.7	6.0	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)