

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: P1060619

Luminaire Tested: S124RDR-S795D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060619  
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-S795D950-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: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

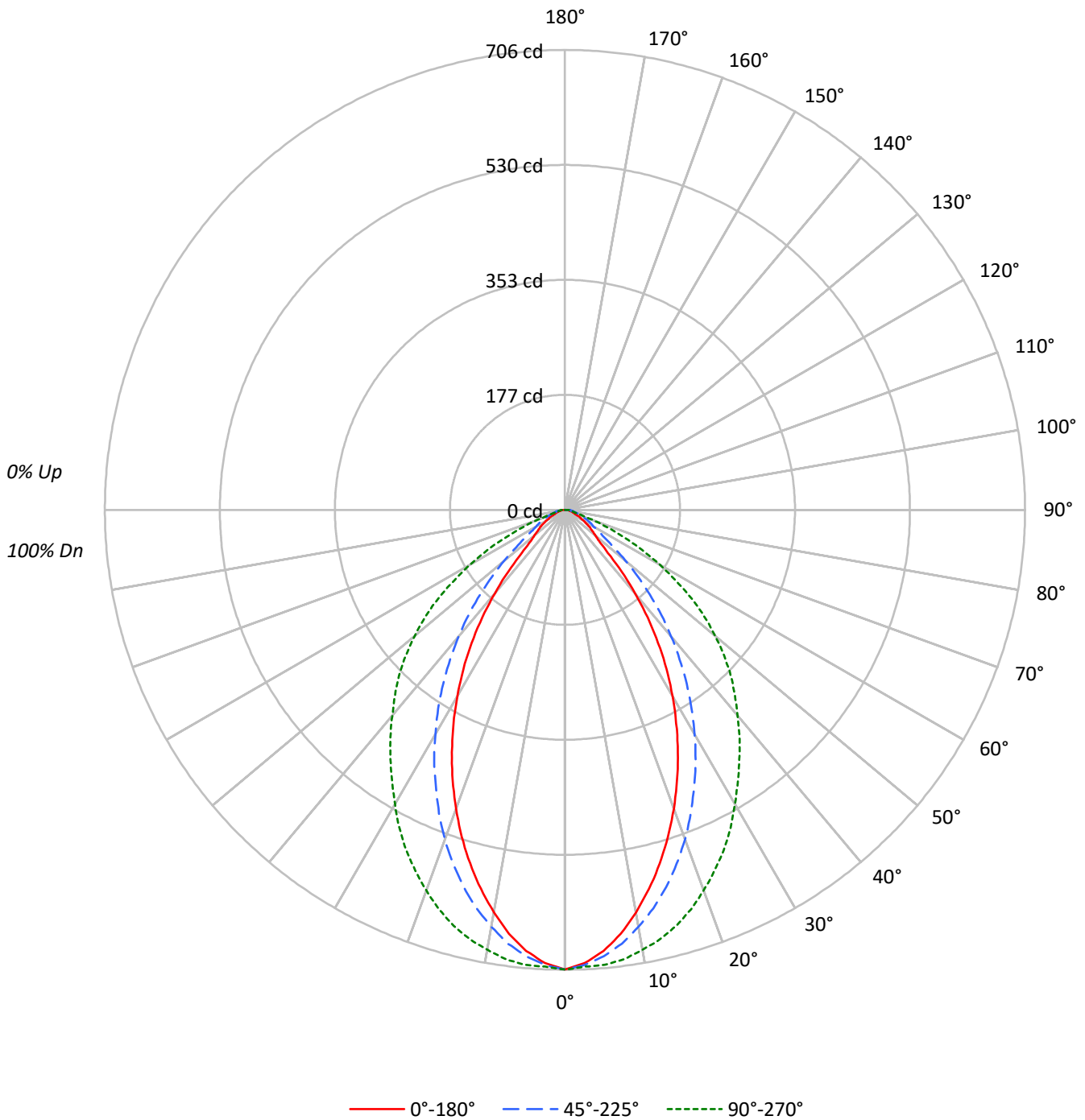
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 992.2 lumens  
Efficiency: N/A  
Efficacy: 38.5 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	46	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°	6076	6076	6076
5°	5874	5944	6060
10°	5487	5683	5997
15°	5010	5346	5890
20°	4475	4936	5701
25°	3897	4452	5476
30°	3285	3954	5186
35°	2624	3426	4907
40°	1887	2846	4631
45°	1137	2241	4384
50°	817	1624	4028
55°	688	1091	3572
60°	556	866	2876
65°	438	787	2066
70°	385	655	1108
75°	359	599	539
80°	357	625	491
85°	534	889	622

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4384 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.8	6.5
10°-20°	169.7	17.1
20°-30°	220.2	22.2
30°-40°	211.7	21.3
40°-50°	157.0	15.8
50°-60°	96.2	9.7
60°-70°	46.7	4.7
70°-80°	17.8	1.8
80°-90°	8.0	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°	454.7	45.8
0°-40°	666.4	67.2
0°-60°	919.6	92.7
0°-90°	992.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	992.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	680	689	688	694	701	63
15°	562	578	600	636	661	157
25°	410	431	469	529	576	188
35°	250	272	326	403	467	155
45°	93	117	184	281	360	77
55°	46	48	73	164	238	41
65°	22	23	39	61	101	22
75°	11	17	18	16	16	12
85°	5	9	9	8	6	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	705.6	705.6	705.6	705.6	705.6
2.5°	696.6	704.7	699.3	701.1	702.0
5°	679.6	689.4	687.6	693.9	701.1
7.5°	656.2	667.9	671.5	684.0	695.7
10°	627.5	641.9	649.9	670.6	685.8
12.5°	596.1	611.3	626.6	654.4	675.1
15°	562.0	578.1	599.7	635.6	660.7
17.5°	526.1	544.0	570.0	613.1	642.8
20°	488.3	507.2	538.6	586.2	622.1
22.5°	449.7	469.5	504.5	557.5	599.7
25°	410.2	430.9	468.6	528.7	576.3
27.5°	369.9	391.4	434.5	498.2	550.3
30°	330.4	351.0	397.7	466.8	521.6
32.5°	290.0	311.5	361.8	434.5	493.7
35°	249.6	272.0	325.9	403.1	466.8
37.5°	208.3	232.5	289.1	372.5	439.9
40°	167.9	191.2	253.2	341.1	412.0
42.5°	128.4	153.5	219.0	309.7	386.0
45°	93.4	116.7	184.0	281.0	360.0
47.5°	70.0	84.4	151.7	254.0	331.3
50°	61.0	63.7	121.2	224.4	300.7
52.5°	53.0	54.8	94.3	192.1	270.2
55°	45.8	47.6	72.7	164.3	237.9
57.5°	38.6	40.4	58.4	137.3	201.1
60°	32.3	34.1	50.3	109.5	167.0
62.5°	26.9	27.8	44.9	83.5	133.8
65°	21.5	23.3	38.6	61.0	101.4
67.5°	18.0	19.7	31.4	42.2	70.9
70°	15.3	19.7	26.0	29.6	44.0
72.5°	12.6	18.0	21.5	20.6	20.6
75°	10.8	17.1	18.0	16.2	16.2
77.5°	9.0	15.3	14.4	13.5	12.6
80°	7.2	12.6	12.6	10.8	9.9
82.5°	6.3	9.9	9.9	9.9	8.1
85°	5.4	9.0	9.0	8.1	6.3
87.5°	3.6	7.2	8.1	7.2	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)