

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: P1060610

Luminaire Tested: S124RDR-S795D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

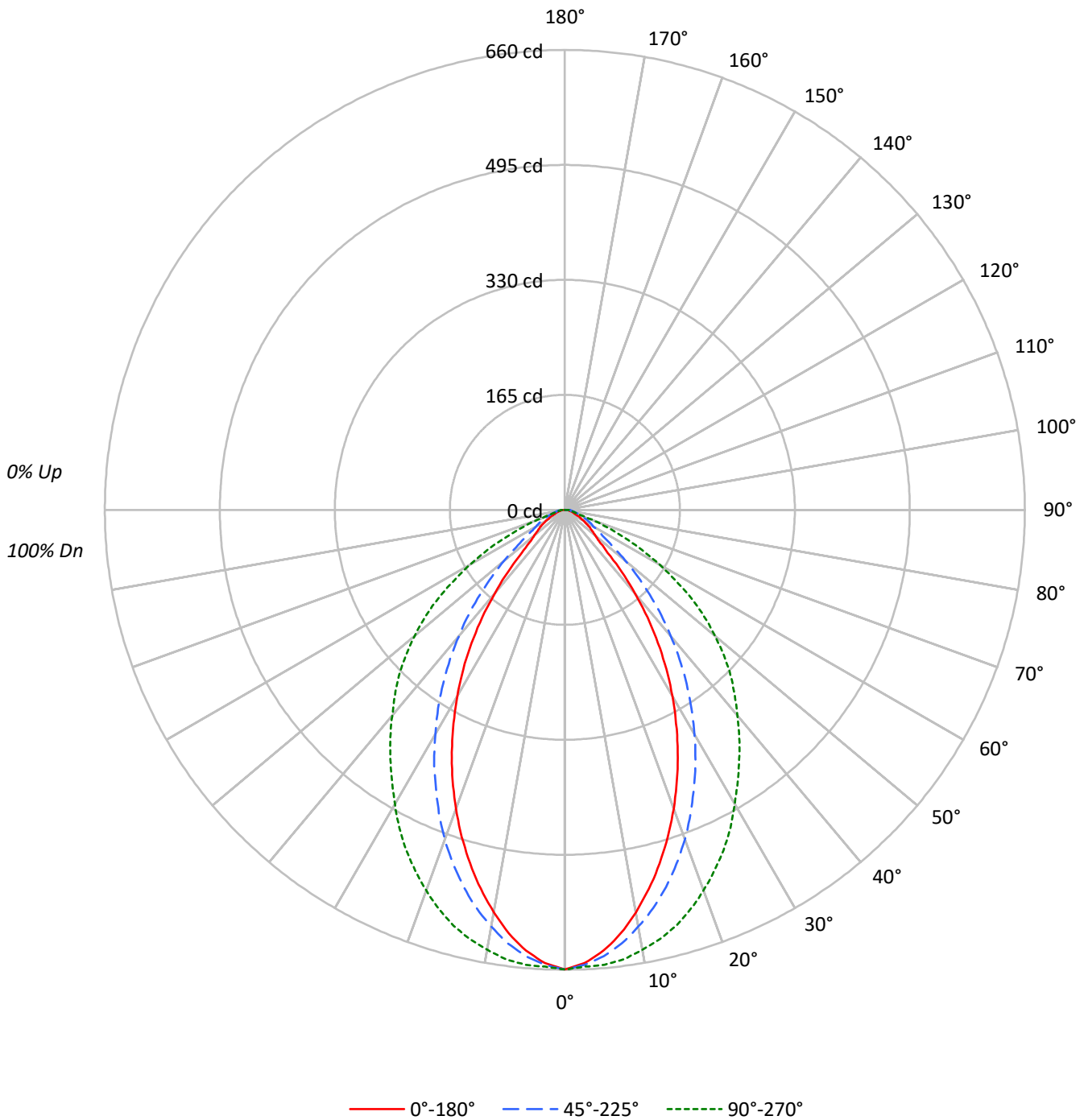
Test Method: LM-79-2019  
Report Number: P1060610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D940-X4F0-XX-UDD-SVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 927.4 lumens  
Efficiency: N/A  
Efficacy: 35.9 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	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°	5679	5679	5679
5°	5491	5556	5664
10°	5128	5312	5606
15°	4683	4997	5506
20°	4183	4614	5329
25°	3644	4162	5118
30°	3070	3696	4847
35°	2453	3202	4586
40°	1764	2660	4329
45°	1063	2095	4098
50°	765	1518	3766
55°	643	1021	3339
60°	520	809	2688
65°	410	736	1932
70°	360	612	1035
75°	336	559	502
80°	332	580	456
85°	494	830	583

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4098 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	6.5
10°-20°	158.6	17.1
20°-30°	205.8	22.2
30°-40°	197.9	21.3
40°-50°	146.8	15.8
50°-60°	89.9	9.7
60°-70°	43.7	4.7
70°-80°	16.6	1.8
80°-90°	7.5	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°	425.0	45.8
0°-40°	622.9	67.2
0°-60°	859.6	92.7
0°-90°	927.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	927.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	635	644	643	649	655	59
15°	525	540	560	594	618	147
25°	384	403	438	494	539	175
35°	233	254	305	377	436	144
45°	87	109	172	263	336	72
55°	43	44	68	154	222	38
65°	20	22	36	57	95	21
75°	10	16	17	15	15	11
85°	5	8	8	8	6	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	659.5	659.5	659.5	659.5	659.5
2.5°	651.1	658.7	653.6	655.3	656.2
5°	635.2	644.4	642.7	648.6	655.3
7.5°	613.4	624.3	627.6	639.4	650.3
10°	586.5	599.9	607.5	626.8	641.1
12.5°	557.2	571.4	585.7	611.7	631.0
15°	525.3	540.4	560.5	594.1	617.6
17.5°	491.7	508.5	532.8	573.1	600.8
20°	456.5	474.1	503.5	547.9	581.5
22.5°	420.4	438.8	471.6	521.1	560.5
25°	383.5	402.8	438.0	494.2	538.7
27.5°	345.7	365.8	406.1	465.7	514.4
30°	308.8	328.1	371.7	436.3	487.5
32.5°	271.0	291.2	338.2	406.1	461.5
35°	233.3	254.2	304.6	376.8	436.3
37.5°	194.7	217.3	270.2	348.2	411.2
40°	156.9	178.7	236.6	318.9	385.1
42.5°	120.0	143.5	204.7	289.5	360.8
45°	87.3	109.1	172.0	262.6	336.5
47.5°	65.4	78.9	141.8	237.5	309.6
50°	57.1	59.6	113.3	209.8	281.1
52.5°	49.5	51.2	88.1	179.6	252.6
55°	42.8	44.5	68.0	153.6	222.4
57.5°	36.1	37.8	54.5	128.4	188.0
60°	30.2	31.9	47.0	102.4	156.1
62.5°	25.2	26.0	42.0	78.0	125.0
65°	20.1	21.8	36.1	57.1	94.8
67.5°	16.8	18.5	29.4	39.4	66.3
70°	14.3	18.5	24.3	27.7	41.1
72.5°	11.7	16.8	20.1	19.3	19.3
75°	10.1	15.9	16.8	15.1	15.1
77.5°	8.4	14.3	13.4	12.6	11.7
80°	6.7	11.7	11.7	10.1	9.2
82.5°	5.9	9.2	9.2	9.2	7.6
85°	5.0	8.4	8.4	7.6	5.9
87.5°	3.4	6.7	7.6	6.7	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)