

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: P1060548

Luminaire Tested: S124RDR-S795D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D830-X4F0-XX-UDD-SVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

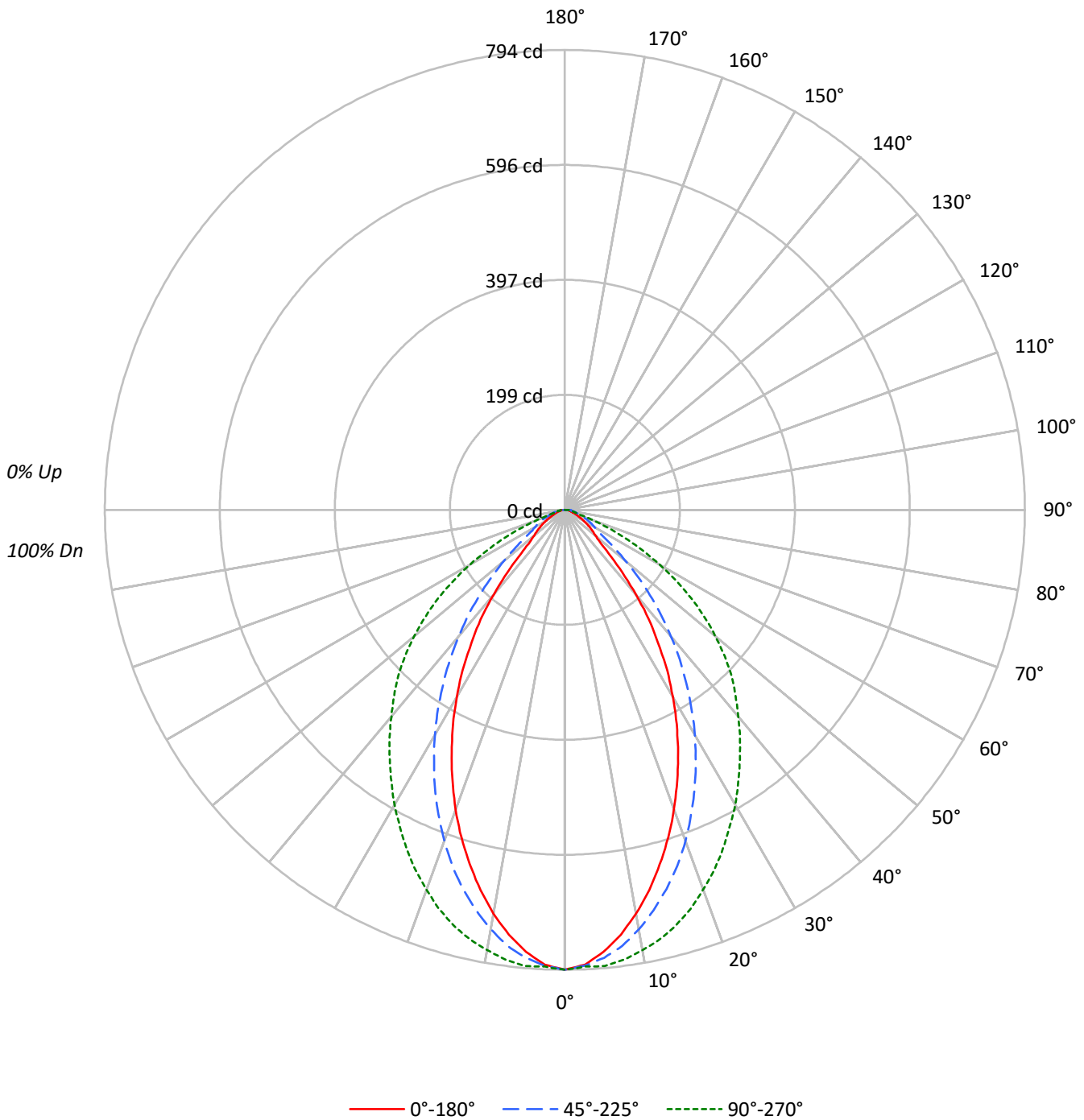
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1123.7 lumens  
Efficiency: N/A  
Efficacy: 43.6 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	104	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	66	75	70	66	73	68	65	63				63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57				57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51				51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43				43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	6836	6836	6836
5°	6625	6709	6832
10°	6190	6430	6749
15°	5647	6042	6619
20°	5048	5576	6397
25°	4392	5040	6136
30°	3705	4464	5848
35°	2947	3842	5539
40°	2144	3201	5235
45°	1297	2528	4959
50°	927	1830	4540
55°	785	1239	4008
60°	642	1008	3240
65°	505	905	2331
70°	425	760	1229
75°	383	709	619
80°	397	704	615
85°	524	1047	701

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4959 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.1	6.5
10°-20°	191.5	17.0
20°-30°	248.4	22.1
30°-40°	239.1	21.3
40°-50°	177.9	15.8
50°-60°	109.4	9.7
60°-70°	53.7	4.8
70°-80°	21.0	1.9
80°-90°	9.6	0.9
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°	513.0	45.7
0°-40°	752.2	66.9
0°-60°	1039.5	92.5
0°-90°	1123.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1123.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	766	778	776	783	790	71
15°	633	654	678	718	742	177
25°	462	487	530	597	646	211
35°	280	307	366	457	527	175
45°	106	132	208	320	407	88
55°	52	54	82	188	267	47
65°	25	27	44	71	114	26
75°	12	20	21	20	19	13
85°	5	10	11	11	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	793.9	793.9	793.9	793.9	793.9
2.5°	786.0	794.8	787.7	788.6	789.5
5°	766.4	778.0	776.2	783.3	790.4
7.5°	739.8	753.1	759.3	773.5	783.3
10°	707.9	723.0	735.4	758.5	771.8
12.5°	672.4	690.2	707.9	738.9	759.3
15°	633.4	653.8	677.7	718.5	742.5
17.5°	593.5	613.9	644.9	691.9	722.1
20°	550.9	573.1	608.5	660.9	698.1
22.5°	506.5	530.5	569.5	628.9	673.3
25°	462.2	487.0	530.5	597.0	645.8
27.5°	417.8	441.8	488.8	563.3	616.5
30°	372.6	397.4	448.9	526.9	588.1
32.5°	329.1	352.2	407.2	492.3	557.1
35°	280.3	306.9	365.5	456.8	526.9
37.5°	238.6	262.6	325.6	421.4	496.8
40°	190.7	217.3	284.8	386.8	465.7
42.5°	146.4	173.0	245.7	352.2	436.4
45°	106.5	132.2	207.6	320.2	407.2
47.5°	80.7	95.8	170.3	289.2	374.4
50°	69.2	73.6	136.6	255.5	338.9
52.5°	61.2	63.0	106.5	221.8	303.4
55°	52.3	54.1	82.5	188.1	267.0
57.5°	44.4	45.2	66.5	156.1	228.0
60°	37.3	38.1	58.5	125.1	188.1
62.5°	31.0	31.9	52.3	96.7	149.9
65°	24.8	26.6	44.4	71.0	114.4
67.5°	20.4	24.0	37.3	49.7	79.8
70°	16.9	23.1	30.2	34.6	48.8
72.5°	14.2	21.3	25.7	24.8	24.0
75°	11.5	20.4	21.3	19.5	18.6
77.5°	9.8	17.7	17.7	16.0	15.1
80°	8.0	14.2	14.2	14.2	12.4
82.5°	7.1	11.5	12.4	12.4	9.8
85°	5.3	9.8	10.6	10.6	7.1
87.5°	3.5	8.9	9.8	8.9	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)