

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: P1060617

Luminaire Tested: S124RDR-S795D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D950-X4F0-XX-UDD-BVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

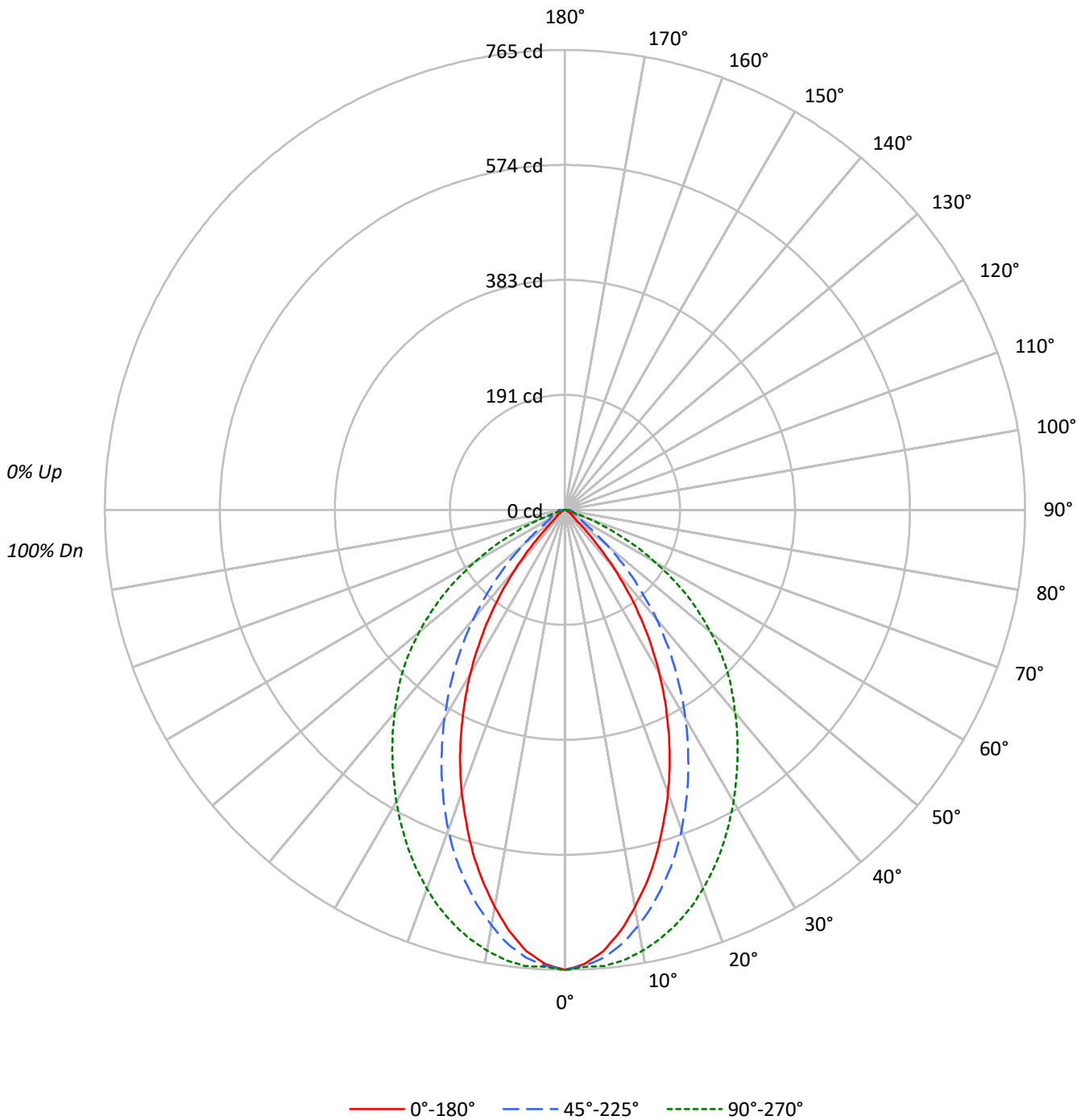
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 964.4 lumens  
Efficiency: N/A  
Efficacy: 37.4 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.96  
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	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	98	98	96	95	95	93	92	90																												
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81																												
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72																												
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65																												
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59																												
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54																												
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49																												
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45																												
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																												
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39																												

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

	0°	45°	90°
0°	6589	6589	6589
5°	6365	6459	6583
10°	5866	6141	6510
15°	5268	5708	6365
20°	4592	5193	6148
25°	3874	4608	5879
30°	3125	3982	5572
35°	2313	3332	5258
40°	1433	2655	4947
45°	569	1936	4659
50°	253	1215	4235
55°	203	634	3708
60°	140	479	2954
65°	92	477	2031
70°	91	431	949
75°	120	419	419
80°	179	491	491
85°	356	978	711

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4659 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	7.3
10°-20°	181.2	18.8
20°-30°	228.7	23.7
30°-40°	209.8	21.8
40°-50°	142.9	14.8
50°-60°	77.8	8.1
60°-70°	33.7	3.5
70°-80°	12.3	1.3
80°-90°	7.9	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°	480.0	49.8
0°-40°	689.8	71.5
0°-60°	910.5	94.4
0°-90°	964.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	964.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	736	746	747	755	762	68
15°	591	612	640	686	714	164
25°	408	436	485	562	619	186
35°	220	252	317	418	500	136
45°	47	78	159	282	383	43
55°	14	14	42	155	247	12
65°	4	6	23	48	100	5
75°	4	12	13	13	13	4
85°	4	8	10	10	7	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	765.2	765.2	765.2	765.2	765.2
2.5°	756.2	765.2	758.9	760.7	760.7
5°	736.4	746.3	747.2	755.3	761.6
7.5°	706.8	721.2	728.3	744.5	755.3
10°	670.9	687.9	702.3	730.1	744.5
12.5°	632.2	652.0	673.6	710.4	731.0
15°	590.9	611.6	640.3	686.1	714.0
17.5°	545.1	570.3	605.3	660.1	694.2
20°	501.1	526.3	566.7	628.7	670.9
22.5°	455.3	481.4	526.3	595.4	645.7
25°	407.7	436.5	485.0	562.2	618.8
27.5°	361.0	391.6	442.8	527.2	590.0
30°	314.3	344.9	400.5	491.2	560.4
32.5°	266.7	298.2	358.3	453.5	529.9
35°	220.0	252.4	317.0	417.6	500.2
37.5°	172.4	206.6	275.7	382.6	470.6
40°	127.5	161.7	236.2	347.6	440.1
42.5°	85.3	119.4	195.8	313.4	411.3
45°	46.7	78.1	159.0	282.0	382.6
47.5°	25.1	43.1	123.0	251.5	350.3
50°	18.9	23.4	90.7	219.1	316.1
52.5°	16.2	18.0	62.9	185.0	282.0
55°	13.5	14.4	42.2	155.4	247.0
57.5°	10.8	11.7	31.4	125.7	209.3
60°	8.1	9.9	27.8	97.0	171.5
62.5°	6.3	8.1	26.0	70.9	135.6
65°	4.5	6.3	23.4	48.5	99.7
67.5°	4.5	7.2	19.8	31.4	67.4
70°	3.6	9.9	17.1	20.7	37.7
72.5°	3.6	10.8	14.4	14.4	14.4
75°	3.6	11.7	12.6	12.6	12.6
77.5°	3.6	10.8	11.7	10.8	10.8
80°	3.6	9.9	9.9	9.9	9.9
82.5°	3.6	9.0	9.9	9.9	8.1
85°	3.6	8.1	9.9	9.9	7.2
87.5°	2.7	8.1	9.0	9.0	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)