

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: P1060590

Luminaire Tested: S124RDR-S795D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060590  
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-S795D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

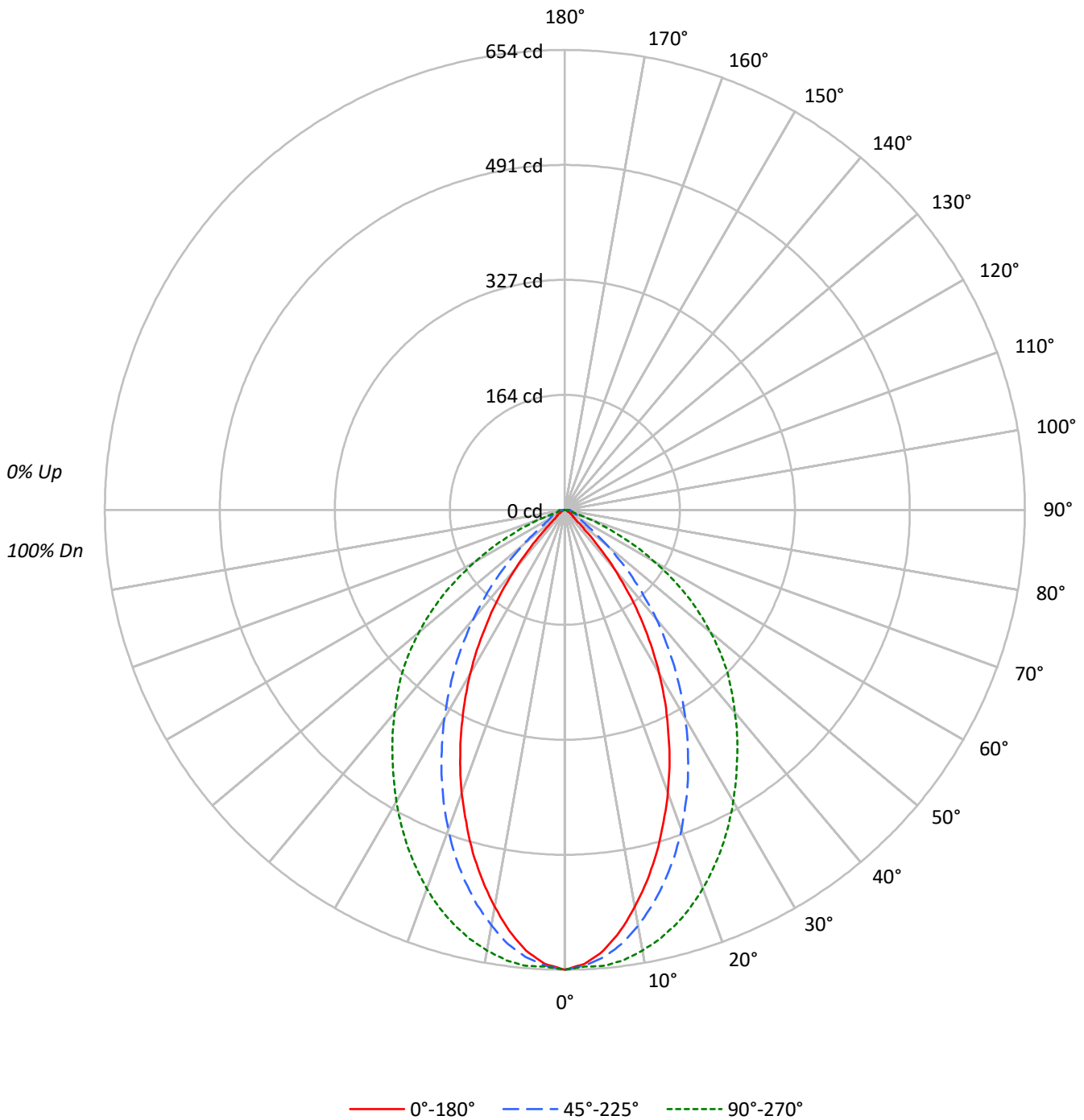
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 824.1 lumens  
Efficiency: N/A  
Efficacy: 31.9 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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72				72
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65				65
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59				59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54				54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49				49
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45				45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39				39

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

	0°	45°	90°
0°	5631	5631	5631
5°	5441	5520	5626
10°	5013	5248	5564
15°	4502	4878	5440
20°	3925	4438	5254
25°	3310	3938	5024
30°	2671	3404	4762
35°	1976	2848	4494
40°	1225	2270	4228
45°	486	1654	3982
50°	216	1038	3620
55°	173	542	3169
60°	119	410	2525
65°	77	408	1736
70°	78	368	811
75°	103	356	356
80°	154	417	417
85°	306	830	603

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3982 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.0	7.3
10°-20°	154.8	18.8
20°-30°	195.4	23.7
30°-40°	179.3	21.8
40°-50°	122.1	14.8
50°-60°	66.5	8.1
60°-70°	28.8	3.5
70°-80°	10.5	1.3
80°-90°	6.7	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°	410.2	49.8
0°-40°	589.5	71.5
0°-60°	778.1	94.4
0°-90°	824.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	824.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	629	638	639	646	651	58
15°	505	523	547	586	610	140
25°	348	373	414	480	529	159
35°	188	216	271	357	428	116
45°	40	67	136	241	327	37
55°	12	12	36	133	211	10
65°	4	5	20	41	85	4
75°	3	10	11	11	11	3
85°	3	7	8	8	6	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	653.9	653.9	653.9	653.9	653.9
2.5°	646.2	653.9	648.5	650.1	650.1
5°	629.4	637.8	638.6	645.5	650.8
7.5°	604.0	616.3	622.4	636.3	645.5
10°	573.3	587.9	600.2	624.0	636.3
12.5°	540.3	557.2	575.6	607.1	624.8
15°	505.0	522.7	547.2	586.4	610.2
17.5°	465.9	487.4	517.3	564.1	593.3
20°	428.3	449.8	484.3	537.3	573.3
22.5°	389.1	411.4	449.8	508.9	551.8
25°	348.4	373.0	414.5	480.5	528.8
27.5°	308.5	334.6	378.4	450.5	504.3
30°	268.6	294.7	342.3	419.8	478.9
32.5°	227.9	254.8	306.2	387.6	452.8
35°	188.0	215.7	270.9	356.9	427.5
37.5°	147.4	176.5	235.6	327.0	402.2
40°	109.0	138.2	201.9	297.0	376.1
42.5°	72.9	102.1	167.3	267.9	351.5
45°	39.9	66.8	135.8	241.0	327.0
47.5°	21.5	36.8	105.1	214.9	299.3
50°	16.1	20.0	77.5	187.3	270.2
52.5°	13.8	15.4	53.7	158.1	241.0
55°	11.5	12.3	36.1	132.8	211.1
57.5°	9.2	10.0	26.9	107.5	178.8
60°	6.9	8.4	23.8	82.9	146.6
62.5°	5.4	6.9	22.3	60.6	115.9
65°	3.8	5.4	20.0	41.4	85.2
67.5°	3.8	6.1	16.9	26.9	57.6
70°	3.1	8.4	14.6	17.7	32.2
72.5°	3.1	9.2	12.3	12.3	12.3
75°	3.1	10.0	10.7	10.7	10.7
77.5°	3.1	9.2	10.0	9.2	9.2
80°	3.1	8.4	8.4	8.4	8.4
82.5°	3.1	7.7	8.4	8.4	6.9
85°	3.1	6.9	8.4	8.4	6.1
87.5°	2.3	6.9	7.7	7.7	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)