

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: P1060579

Luminaire Tested: S124RDR-S795D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-39)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D927-X4F0-XX-UDD-BVL-B  
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

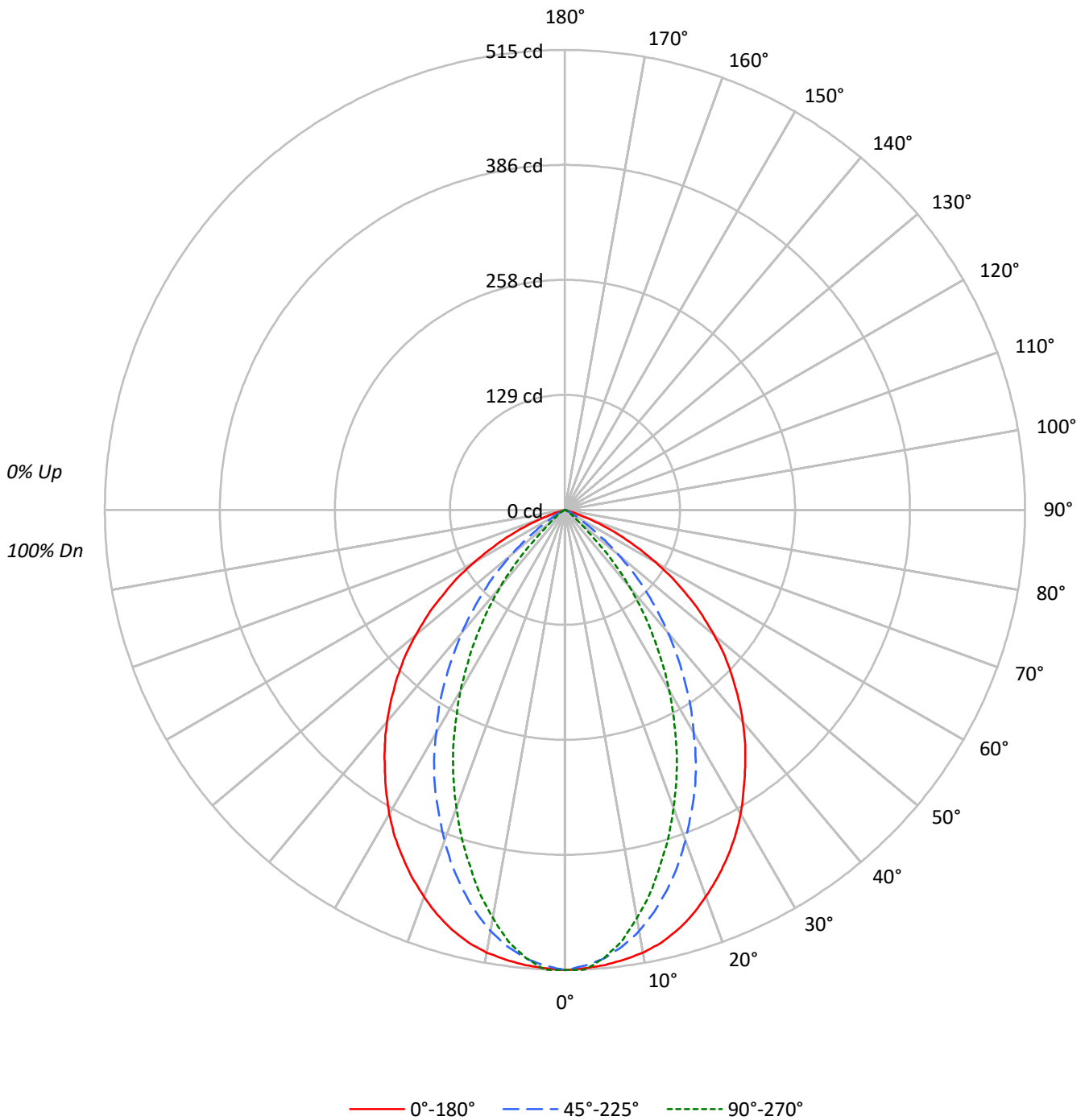
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 673.0 lumens  
Efficiency: N/A  
Efficacy: 26.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98  
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				
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91				
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82				
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74				
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66				
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60				
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55				
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50				
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42				
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39				

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

	0°	45°	90°
0°	4438	4438	4438
5°	4423	4358	4352
10°	4403	4187	4057
15°	4342	3931	3672
20°	4225	3611	3256
25°	4083	3269	2810
30°	3910	2866	2326
35°	3695	2459	1808
40°	3482	2018	1265
45°	3228	1551	626
50°	2914	1048	209
55°	2516	536	146
60°	2013	193	103
65°	1381	106	45
70°	619	55	38
75°	0	23	23
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3228 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.6	7.1
10°-20°	124.8	18.5
20°-30°	161.5	24.0
30°-40°	153.5	22.8
40°-50°	108.7	16.1
50°-60°	55.8	8.3
60°-70°	19.5	2.9
70°-80°	1.7	0.2
80°-90°	0.0	0.0
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°	333.9	49.6
0°-40°	487.3	72.4
0°-60°	651.8	96.9
0°-90°	673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	515	515	515	515	515	
5°	512	512	504	504	504	49
15°	487	472	441	420	412	137
25°	430	396	344	308	296	198
35°	352	300	234	188	172	220
45°	265	204	127	73	51	204
55°	168	110	36	10	10	150
65°	68	33	5	3	2	67
75°	0	1	1	1	1	6
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	515.4	515.4	515.4	515.4	515.4
2.5°	513.9	515.4	510.9	514.6	515.4
5°	511.7	512.4	504.2	504.2	503.5
7.5°	507.9	506.4	493.0	487.8	487.1
10°	503.5	498.3	478.9	467.7	464.0
12.5°	496.8	487.1	461.0	444.6	440.2
15°	487.1	472.2	440.9	420.1	411.9
17.5°	475.2	455.8	418.6	393.2	385.0
20°	461.0	436.4	394.0	365.7	355.3
22.5°	446.1	417.8	368.7	336.6	326.2
25°	429.7	396.2	344.1	307.6	295.7
27.5°	412.6	373.1	317.3	279.3	263.7
30°	393.2	350.0	288.2	248.8	233.9
32.5°	372.4	324.7	262.2	219.7	201.8
35°	351.5	300.1	233.9	188.4	172.0
37.5°	331.4	277.1	205.6	157.9	142.3
40°	309.8	251.7	179.5	130.3	112.5
42.5°	287.5	227.2	152.7	102.0	82.7
45°	265.1	204.1	127.4	73.0	51.4
47.5°	242.8	179.5	102.8	46.2	27.6
50°	217.5	155.7	78.2	24.6	15.6
52.5°	193.6	133.3	55.9	14.2	11.9
55°	167.6	110.2	35.7	10.4	9.7
57.5°	143.0	87.9	20.1	8.2	7.4
60°	116.9	67.8	11.2	6.7	6.0
62.5°	90.9	49.2	7.4	4.5	3.7
65°	67.8	32.8	5.2	3.0	2.2
67.5°	44.7	18.6	3.7	1.5	1.5
70°	24.6	8.9	2.2	1.5	1.5
72.5°	8.9	3.0	1.5	0.7	0.7
75°	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.7
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)