

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: P1060618

Luminaire Tested: S124RDR-S795D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D950-X4F0-XX-UDD-SVL-B  
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

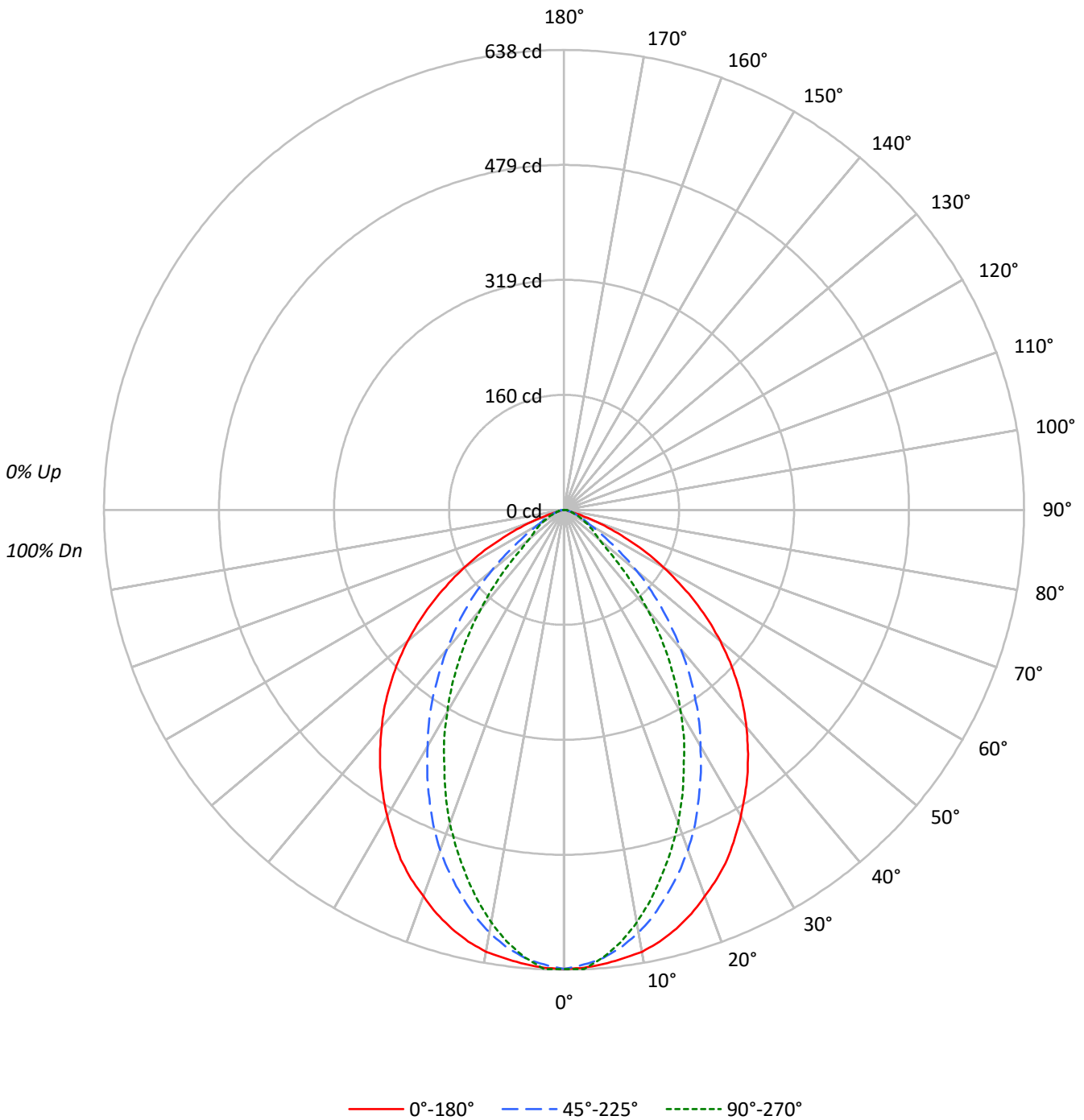
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 938.9 lumens  
Efficiency: N/A  
Efficacy: 36.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02  
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	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	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	5484	5484	5484
5°	5466	5396	5388
10°	5442	5207	5082
15°	5365	4925	4678
20°	5227	4603	4241
25°	5087	4201	3732
30°	4878	3764	3220
35°	4667	3328	2659
40°	4426	2833	2017
45°	4139	2315	1354
50°	3785	1754	841
55°	3325	1158	713
60°	2749	711	587
65°	1993	548	475
70°	1085	405	363
75°	240	299	329
80°	179	223	268
85°	178	178	267

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4139 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.0	6.3
10°-20°	156.7	16.7
20°-30°	207.6	22.1
30°-40°	206.0	21.9
40°-50°	158.5	16.9
50°-60°	94.5	10.1
60°-70°	42.9	4.6
70°-80°	11.1	1.2
80°-90°	2.5	0.3
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°	423.3	45.1
0°-40°	629.3	67.0
0°-60°	882.3	94.0
0°-90°	938.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	632	633	624	624	623	60
15°	602	587	552	534	525	169
25°	535	497	442	405	393	246
35°	444	388	317	268	253	277
45°	340	274	190	133	111	262
55°	222	158	77	48	48	197
65°	98	58	27	23	23	98
75°	7	9	9	10	10	15
85°	2	2	2	3	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	636.8	636.8	636.8	636.8	636.8
2.5°	635.9	636.8	631.4	635.9	637.7
5°	632.3	633.2	624.2	624.2	623.3
7.5°	627.8	626.0	611.7	606.3	604.5
10°	622.4	616.2	595.5	584.8	581.2
12.5°	613.5	603.6	575.8	560.6	554.3
15°	601.8	586.6	552.5	533.7	524.7
17.5°	587.5	568.6	528.3	504.1	494.2
20°	570.4	545.3	502.3	471.8	462.8
22.5°	554.3	522.9	473.6	438.6	428.7
25°	535.4	496.9	442.2	405.4	392.8
27.5°	513.0	471.8	410.8	373.1	360.6
30°	490.6	444.9	378.5	339.0	323.8
32.5°	467.3	417.1	348.9	304.0	289.7
35°	444.0	388.4	316.6	268.2	252.9
37.5°	418.9	359.7	284.3	234.1	217.0
40°	393.7	331.9	252.0	200.9	179.4
42.5°	367.7	303.2	220.6	166.8	145.3
45°	339.9	273.6	190.1	132.7	111.2
47.5°	312.1	245.8	159.6	99.6	79.8
50°	282.5	216.2	130.9	72.6	62.8
52.5°	252.9	187.5	102.2	56.5	53.8
55°	221.5	157.9	77.1	48.4	47.5
57.5°	189.2	130.9	55.6	42.2	40.4
60°	159.6	105.8	41.3	35.9	34.1
62.5°	129.2	79.8	34.1	29.6	27.8
65°	97.8	58.3	26.9	23.3	23.3
67.5°	70.9	39.5	21.5	18.8	17.9
70°	43.1	24.2	16.1	15.2	14.4
72.5°	21.5	14.4	12.6	11.7	11.7
75°	7.2	9.0	9.0	9.9	9.9
77.5°	5.4	6.3	6.3	7.2	7.2
80°	3.6	4.5	4.5	5.4	5.4
82.5°	2.7	2.7	3.6	3.6	4.5
85°	1.8	1.8	1.8	2.7	2.7
87.5°	0.9	0.9	0.9	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)