

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: P1060609

Luminaire Tested: S124RDR-S795D940-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060609  
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-S795D940-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

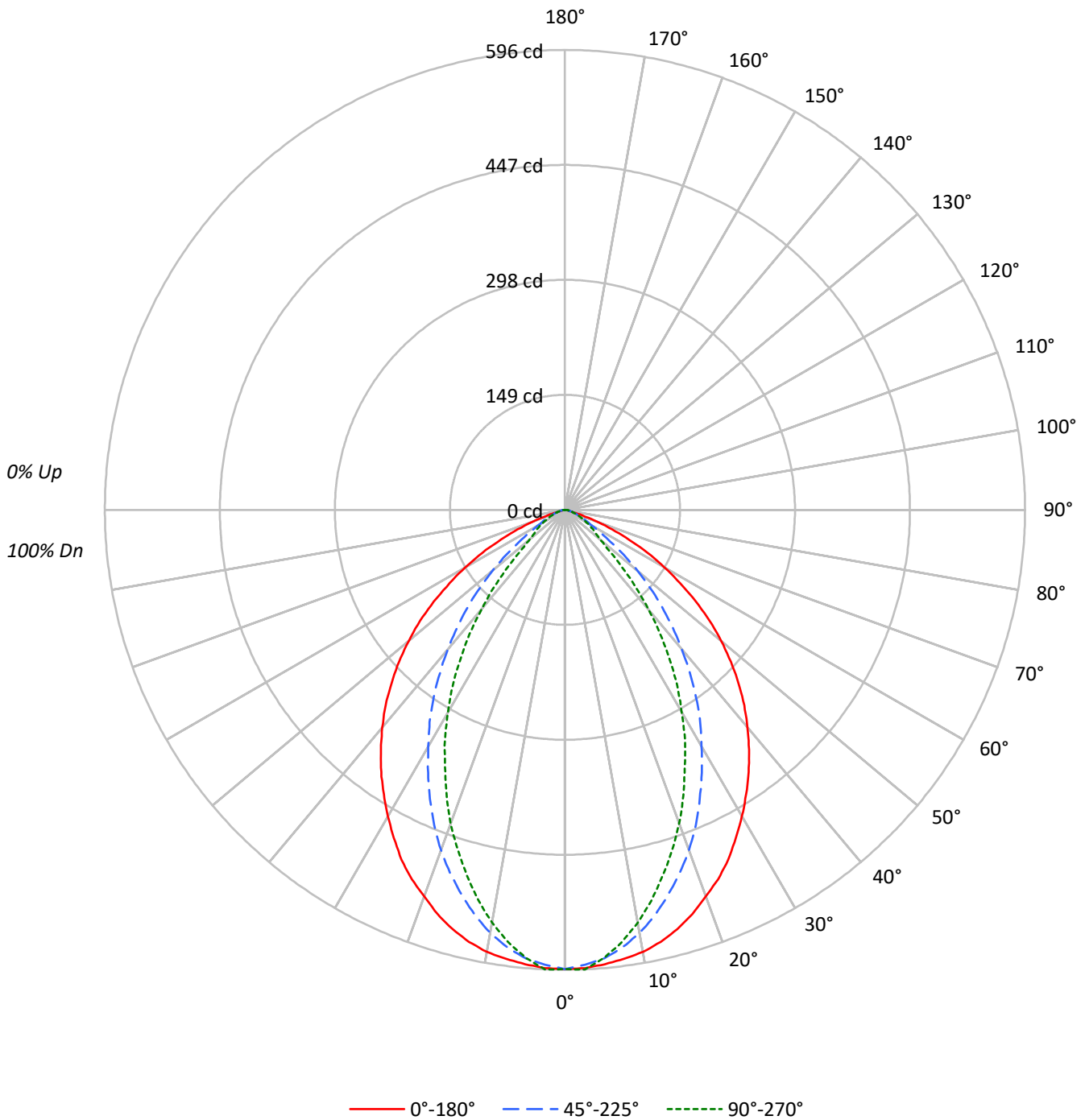
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 877.6 lumens  
Efficiency: N/A  
Efficacy: 34.0 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°	5125	5125	5125
5°	5109	5044	5036
10°	5087	4868	4750
15°	5015	4604	4372
20°	4886	4302	3964
25°	4755	3927	3489
30°	4560	3518	3009
35°	4363	3111	2485
40°	4137	2648	1885
45°	3869	2164	1267
50°	3538	1640	786
55°	3109	1082	667
60°	2570	665	549
65°	1862	513	444
70°	1012	380	337
75°	223	279	306
80°	169	208	248
85°	168	168	247

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3869 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	6.3
10°-20°	146.5	16.7
20°-30°	194.0	22.1
30°-40°	192.6	21.9
40°-50°	148.2	16.9
50°-60°	88.3	10.1
60°-70°	40.2	4.6
70°-80°	10.4	1.2
80°-90°	2.3	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°	395.6	45.1
0°-40°	588.2	67.0
0°-60°	824.7	94.0
0°-90°	877.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	591	592	584	584	583	56
15°	562	548	516	499	490	158
25°	500	464	413	379	367	230
35°	415	363	296	251	236	259
45°	318	256	178	124	104	245
55°	207	148	72	45	44	185
65°	91	54	25	22	22	92
75°	7	8	8	9	9	14
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	595.2	595.2	595.2	595.2	595.2
2.5°	594.4	595.2	590.2	594.4	596.1
5°	591.0	591.9	583.5	583.5	582.6
7.5°	586.8	585.2	571.7	566.7	565.0
10°	581.8	575.9	556.7	546.6	543.2
12.5°	573.4	564.2	538.2	524.0	518.1
15°	562.5	548.3	516.4	498.8	490.4
17.5°	549.1	531.5	493.8	471.1	461.9
20°	533.2	509.7	469.5	441.0	432.6
22.5°	518.1	488.8	442.6	409.9	400.7
25°	500.5	464.4	413.3	378.9	367.2
27.5°	479.5	441.0	384.0	348.7	337.0
30°	458.6	415.8	353.8	316.9	302.6
32.5°	436.8	389.8	326.1	284.2	270.8
35°	415.0	363.0	295.9	250.7	236.4
37.5°	391.5	336.2	265.8	218.8	202.9
40°	368.0	310.2	235.6	187.8	167.7
42.5°	343.7	283.4	206.2	155.9	135.8
45°	317.7	255.7	177.7	124.1	104.0
47.5°	291.7	229.7	149.2	93.1	74.6
50°	264.1	202.0	122.4	67.9	58.7
52.5°	236.4	175.2	95.6	52.8	50.3
55°	207.1	147.5	72.1	45.3	44.4
57.5°	176.9	122.4	52.0	39.4	37.7
60°	149.2	98.9	38.6	33.5	31.9
62.5°	120.7	74.6	31.9	27.7	26.0
65°	91.4	54.5	25.2	21.8	21.8
67.5°	66.2	36.9	20.1	17.6	16.8
70°	40.2	22.6	15.1	14.3	13.4
72.5°	20.1	13.4	11.7	10.9	10.9
75°	6.7	8.4	8.4	9.2	9.2
77.5°	5.0	5.9	5.9	6.7	6.7
80°	3.4	4.2	4.2	5.0	5.0
82.5°	2.5	2.5	3.4	3.4	4.2
85°	1.7	1.7	1.7	2.5	2.5
87.5°	0.8	0.8	0.8	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)