

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: P1060367

Luminaire Tested: S124RDR-S1195D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S1195D940-X4F0-XX-UDD-SVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

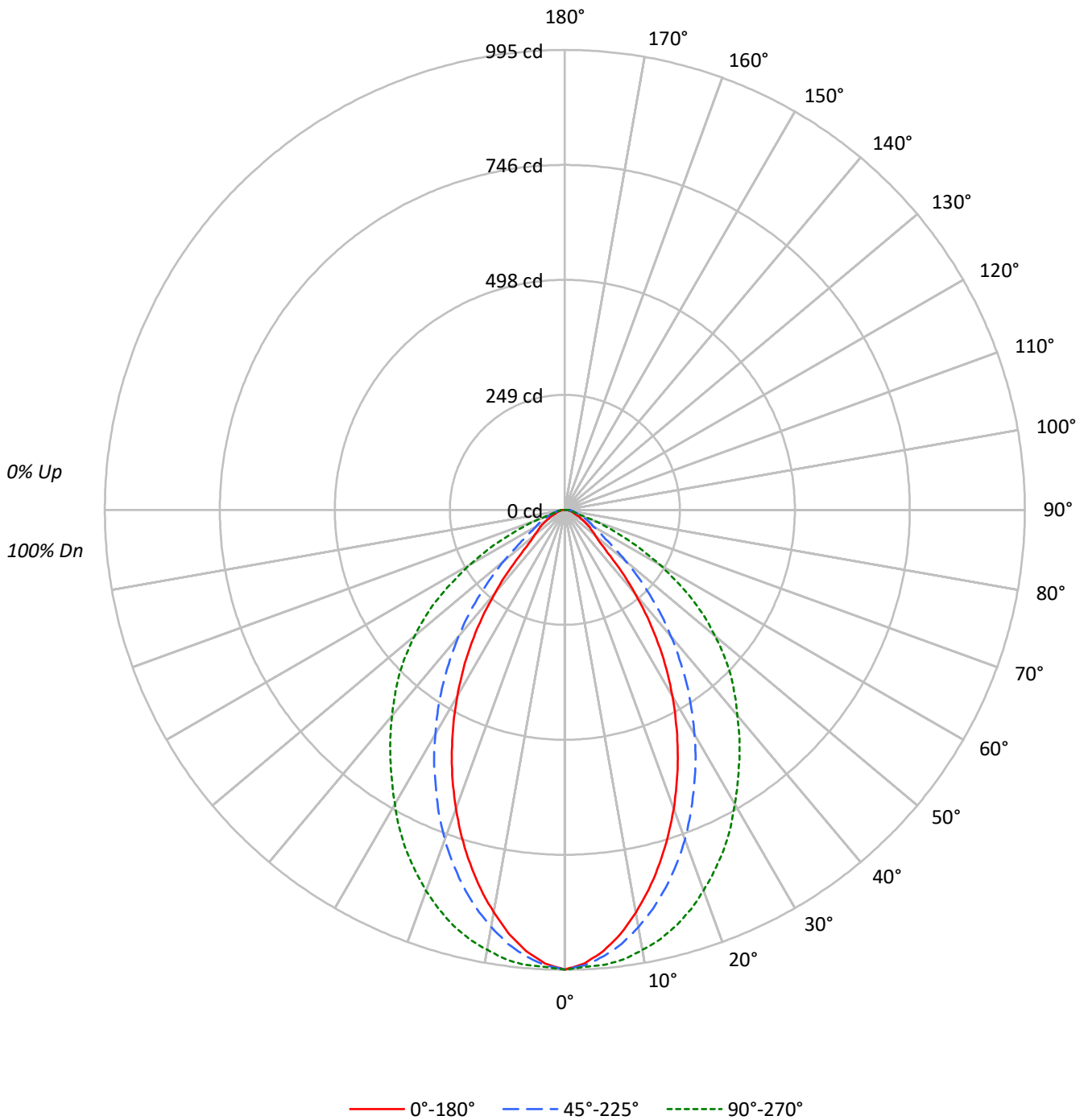
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1398.6 lumens  
Efficiency: N/A  
Efficacy: 33.5 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01  
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63
5	84	73	66	61	82	72	65	60	70	64	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	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	8565	8565	8565
5°	8281	8380	8543
10°	7735	8011	8454
15°	7062	7536	8303
20°	6308	6958	8037
25°	5495	6277	7719
30°	4631	5574	7310
35°	3698	4829	6917
40°	2660	4012	6530
45°	1603	3159	6180
50°	1153	2288	5679
55°	968	1539	5035
60°	785	1221	4054
65°	619	1108	2914
70°	541	924	1561
75°	506	842	759
80°	501	878	689
85°	751	1255	879

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6180 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.3	6.5
10°-20°	239.2	17.1
20°-30°	310.4	22.2
30°-40°	298.4	21.3
40°-50°	221.4	15.8
50°-60°	135.6	9.7
60°-70°	65.9	4.7
70°-80°	25.1	1.8
80°-90°	11.3	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°	641.0	45.8
0°-40°	939.4	67.2
0°-60°	1296.4	92.7
0°-90°	1398.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1398.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	958	972	969	978	988	89
15°	792	815	845	896	931	221
25°	578	607	661	745	812	264
35°	352	383	459	568	658	218
45°	132	164	259	396	508	109
55°	64	67	102	232	335	58
65°	30	33	54	86	143	31
75°	15	24	25	23	23	16
85°	8	13	13	11	9	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	994.7	994.7	994.7	994.7	994.7
2.5°	982.0	993.4	985.8	988.3	989.6
5°	958.0	971.9	969.4	978.2	988.3
7.5°	925.1	941.5	946.6	964.3	980.7
10°	884.6	904.8	916.2	945.3	966.8
12.5°	840.3	861.8	883.3	922.5	951.6
15°	792.2	815.0	845.3	896.0	931.4
17.5°	741.6	766.9	803.6	864.3	906.1
20°	688.4	715.0	759.3	826.4	877.0
22.5°	634.0	661.8	711.2	785.9	845.3
25°	578.3	607.4	660.6	745.4	812.4
27.5°	521.4	551.7	612.5	702.3	775.7
30°	465.7	494.8	560.6	658.0	735.2
32.5°	408.7	439.1	510.0	612.5	696.0
35°	351.8	383.4	459.4	568.2	658.0
37.5°	293.6	327.8	407.5	525.2	620.1
40°	236.6	269.5	356.9	480.9	580.9
42.5°	181.0	216.4	308.8	436.6	544.2
45°	131.6	164.5	259.4	396.1	507.5
47.5°	98.7	119.0	213.9	358.1	467.0
50°	86.1	89.8	170.8	316.4	423.9
52.5°	74.7	77.2	132.9	270.8	380.9
55°	64.5	67.1	102.5	231.6	335.4
57.5°	54.4	56.9	82.3	193.6	283.5
60°	45.6	48.1	70.9	154.4	235.4
62.5°	38.0	39.2	63.3	117.7	188.6
65°	30.4	32.9	54.4	86.1	143.0
67.5°	25.3	27.8	44.3	59.5	100.0
70°	21.5	27.8	36.7	41.8	62.0
72.5°	17.7	25.3	30.4	29.1	29.1
75°	15.2	24.0	25.3	22.8	22.8
77.5°	12.7	21.5	20.2	19.0	17.7
80°	10.1	17.7	17.7	15.2	13.9
82.5°	8.9	13.9	13.9	13.9	11.4
85°	7.6	12.7	12.7	11.4	8.9
87.5°	5.1	10.1	11.4	10.1	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)