

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: P1060341

Luminaire Tested: S124RDR-S1195D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S1195D927-X4F0-XX-UDD-SVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

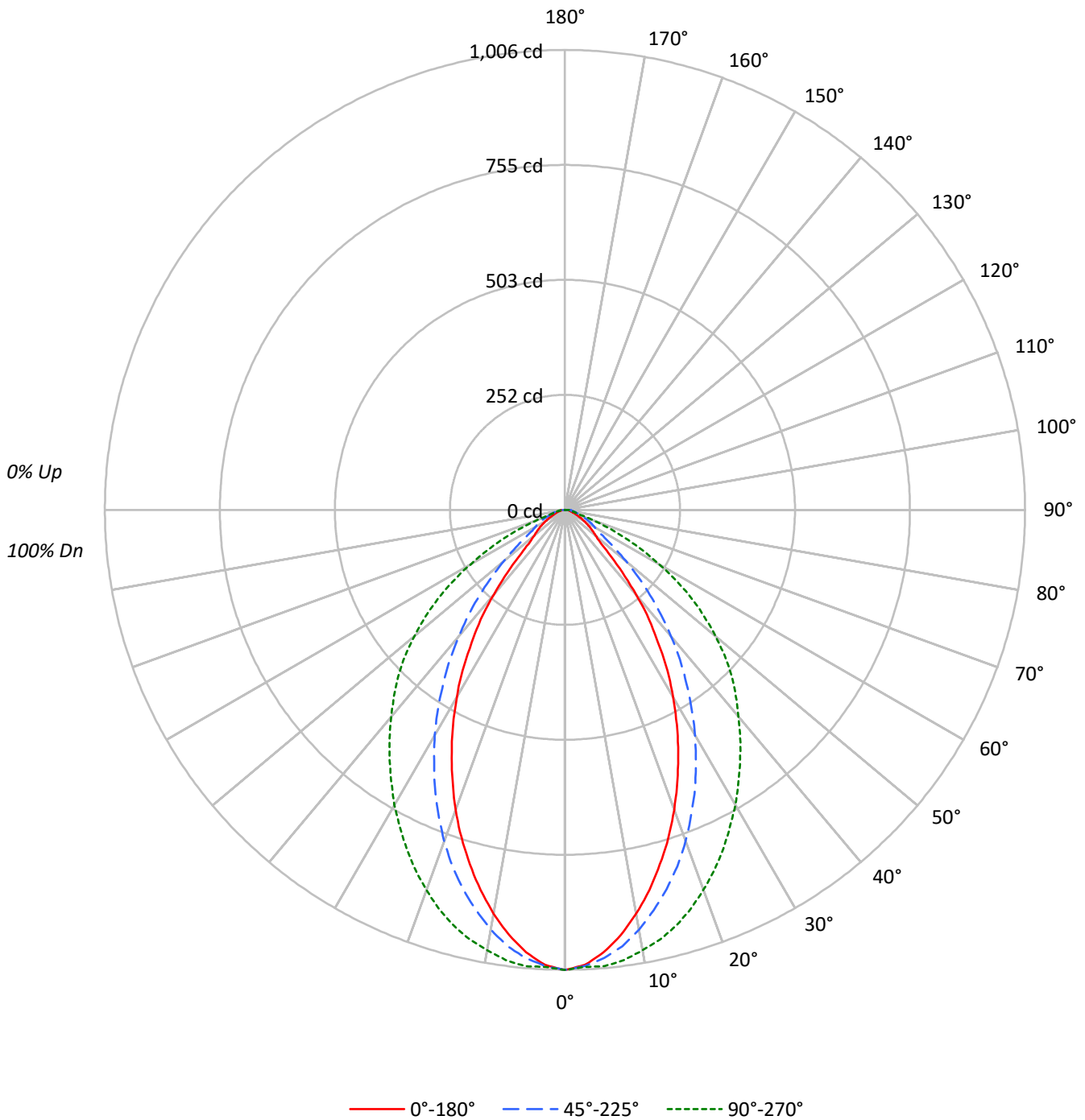
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1424.4 lumens  
Efficiency: N/A  
Efficacy: 34.1 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

TEST NUMBER: P1060341

CATALOG NUMBER: S124RDR-S1195D927-X4F0-XX-UDD-SVL-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1060341

CATALOG NUMBER: S124RDR-S1195D927-X4F0-XX-UDD-SVL-W

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89													89															
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79													79															
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70													70															
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63													63															
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57													57															
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51													51															
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47													47															
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43													43															
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39													39															
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36													36															

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

	0°	45°	90°
0°	8666	8666	8666
5°	8398	8505	8660
10°	7846	8151	8554
15°	7157	7659	8391
20°	6399	7069	8109
25°	5566	6389	7778
30°	4696	5658	7413
35°	3735	4870	7021
40°	2718	4057	6636
45°	1643	3204	6285
50°	1175	2320	5754
55°	995	1570	5082
60°	813	1278	4106
65°	642	1145	2957
70°	539	962	1556
75°	486	898	785
80°	501	893	779
85°	662	1334	889

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6285 cd/sqm



TEST NUMBER: P1060341

CATALOG NUMBER: S124RDR-S1195D927-X4F0-XX-UDD-SVL-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.6	6.5
10°-20°	242.8	17.0
20°-30°	314.9	22.1
30°-40°	303.1	21.3
40°-50°	225.5	15.8
50°-60°	138.7	9.7
60°-70°	68.1	4.8
70°-80°	26.6	1.9
80°-90°	12.1	0.9
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°	650.3	45.7
0°-40°	953.4	66.9
0°-60°	1317.6	92.5
0°-90°	1424.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1424.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	972	986	984	993	1002	90
15°	803	829	859	911	941	224
25°	586	617	672	757	819	268
35°	355	389	463	579	668	222
45°	135	168	263	406	516	112
55°	66	69	105	238	338	60
65°	32	34	56	90	145	32
75°	15	26	27	25	24	16
85°	7	12	14	14	9	7
90°	0	0	0	0	0	



TEST NUMBER: P1060341

CATALOG NUMBER: S124RDR-S1195D927-X4F0-XX-UDD-SVL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1006.4	1006.4	1006.4	1006.4	1006.4
2.5°	996.3	1007.5	998.5	999.6	1000.7
5°	971.5	986.1	983.9	992.9	1001.9
7.5°	937.8	954.6	962.5	980.5	992.9
10°	897.3	916.4	932.2	961.4	978.3
12.5°	852.3	874.8	897.3	936.7	962.5
15°	802.8	828.7	859.1	910.8	941.2
17.5°	752.2	778.1	817.5	877.1	915.3
20°	698.3	726.4	771.4	837.7	884.9
22.5°	642.1	672.4	721.9	797.2	853.4
25°	585.8	617.3	672.4	756.7	818.6
27.5°	529.6	560.0	619.6	714.0	781.5
30°	472.3	503.7	569.0	667.9	745.5
32.5°	417.2	446.4	516.1	624.1	706.1
35°	355.3	389.1	463.3	579.1	667.9
37.5°	302.5	332.8	412.7	534.1	629.7
40°	241.8	275.5	360.9	490.3	590.3
42.5°	185.5	219.3	311.5	446.4	553.2
45°	134.9	167.5	263.1	405.9	516.1
47.5°	102.3	121.4	215.9	366.6	474.5
50°	87.7	93.3	173.2	323.8	429.5
52.5°	77.6	79.8	134.9	281.1	384.6
55°	66.3	68.6	104.6	238.4	338.5
57.5°	56.2	57.3	84.3	197.9	289.0
60°	47.2	48.4	74.2	158.5	238.4
62.5°	39.4	40.5	66.3	122.6	190.0
65°	31.5	33.7	56.2	90.0	145.1
67.5°	25.9	30.4	47.2	63.0	101.2
70°	21.4	29.2	38.2	43.9	61.8
72.5°	18.0	27.0	32.6	31.5	30.4
75°	14.6	25.9	27.0	24.7	23.6
77.5°	12.4	22.5	22.5	20.2	19.1
80°	10.1	18.0	18.0	18.0	15.7
82.5°	9.0	14.6	15.7	15.7	12.4
85°	6.7	12.4	13.5	13.5	9.0
87.5°	4.5	11.2	12.4	11.2	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)