

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: P1060352

Luminaire Tested: S124RDR-S1195D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S1195D930-X4F0-XX-UDD-WVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

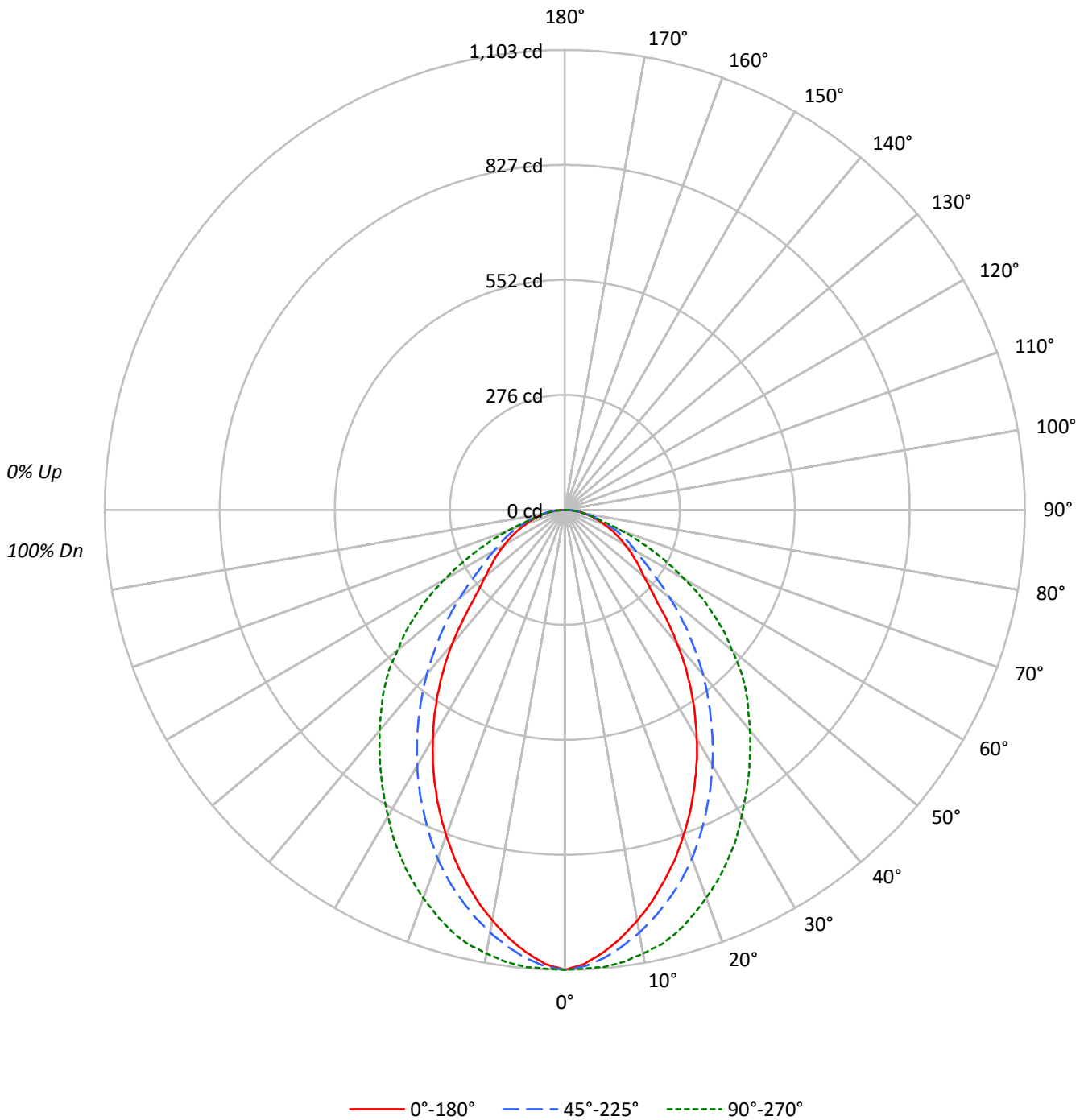
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2008.9 lumens  
Efficiency: N/A  
Efficacy: 48.1 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1  
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									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																												
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																												
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75																												
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65																												
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57																												
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50																												
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45																												
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41																												
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37																												
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34																												
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31																												

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

	0°	45°	90°
0°	9502	9502	9502
5°	9208	9329	9508
10°	8748	9001	9446
15°	8208	8610	9332
20°	7621	8161	9084
25°	6979	7605	8792
30°	6291	7039	8430
35°	5544	6420	8086
40°	4720	5786	7762
45°	3831	5114	7480
50°	3316	4401	7004
55°	3073	3734	6495
60°	2869	3367	5697
65°	2688	3158	4737
70°	2505	2913	3583
75°	2386	2695	2578
80°	2236	2465	2182
85°	2055	2282	1709

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7480 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.9	5.1
10°-20°	273.8	13.6
20°-30°	373.9	18.6
30°-40°	391.7	19.5
40°-50°	339.1	16.9
50°-60°	254.8	12.7
60°-70°	164.3	8.2
70°-80°	84.3	4.2
80°-90°	25.2	1.3
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°	749.6	37.3
0°-40°	1141.4	56.8
0°-60°	1735.2	86.4
0°-90°	2008.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1065	1082	1079	1087	1100	100
15°	921	944	966	1010	1047	258
25°	734	762	800	863	925	337
35°	527	558	611	692	769	329
45°	315	347	420	523	614	248
55°	205	212	249	355	433	184
65°	132	134	155	187	232	131
75°	72	80	81	80	78	76
85°	21	24	23	22	17	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1103.4	1103.4	1103.4	1103.4	1103.4
2.5°	1089.6	1103.4	1095.4	1097.7	1101.1
5°	1065.3	1081.5	1079.2	1087.3	1100.0
7.5°	1035.2	1052.6	1056.0	1074.5	1093.0
10°	1000.5	1020.2	1029.4	1057.2	1080.3
12.5°	962.3	983.2	999.3	1034.0	1067.6
15°	920.7	943.8	965.8	1009.8	1046.8
17.5°	877.9	901.0	930.0	978.5	1020.2
20°	831.6	857.1	890.6	941.5	991.3
22.5°	784.2	810.8	846.7	902.2	960.0
25°	734.5	762.2	800.4	862.9	925.3
27.5°	684.7	712.5	755.3	821.2	889.5
30°	632.7	661.6	707.9	779.6	847.8
32.5°	580.6	611.9	659.3	735.6	808.5
35°	527.4	557.5	610.7	691.7	769.2
37.5°	474.2	505.5	562.1	648.9	729.8
40°	419.9	452.3	514.7	606.1	690.5
42.5°	365.5	400.2	466.1	562.1	651.2
45°	314.6	347.0	419.9	522.8	614.2
47.5°	276.4	298.4	373.6	484.6	572.5
50°	247.5	259.1	328.5	443.0	522.8
52.5°	225.5	233.6	286.9	397.9	482.3
55°	204.7	211.7	248.7	355.1	432.6
57.5°	186.2	189.7	219.8	313.5	385.2
60°	166.6	170.0	195.5	268.3	330.8
62.5°	149.2	151.5	175.8	225.5	281.1
65°	131.9	134.2	155.0	187.4	232.5
67.5°	115.7	119.1	135.3	152.7	185.1
70°	99.5	106.4	115.7	123.8	142.3
72.5°	85.6	92.5	97.2	99.5	100.6
75°	71.7	79.8	81.0	79.8	77.5
77.5°	57.8	64.8	64.8	62.5	60.1
80°	45.1	50.9	49.7	47.4	44.0
82.5°	33.5	37.0	35.9	33.5	30.1
85°	20.8	24.3	23.1	22.0	17.3
87.5°	10.4	13.9	12.7	11.6	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)