

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: P1060304

Luminaire Tested: S124RDR-S1195D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060304  
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-S1195D830-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

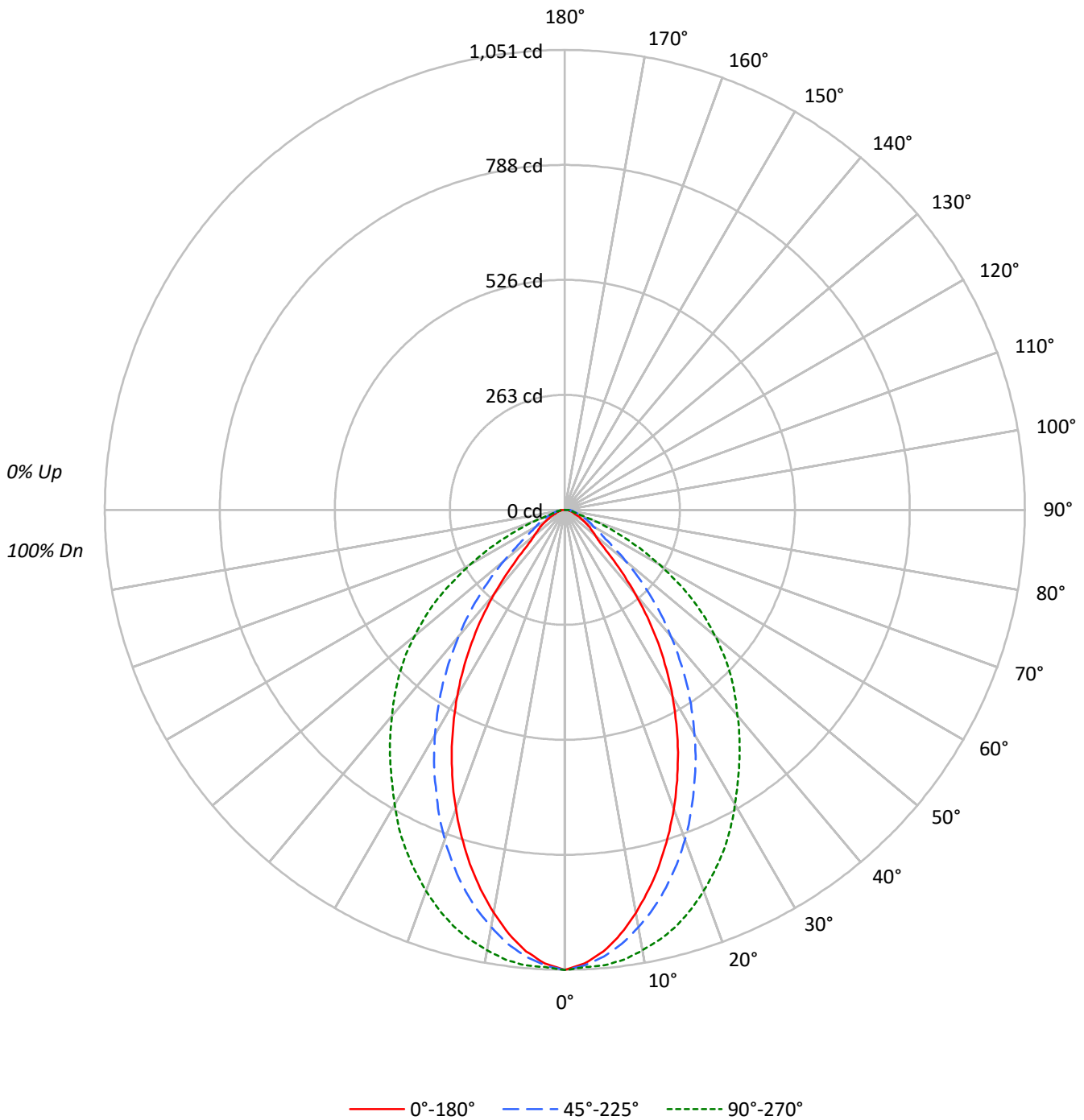
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1478.4 lumens  
Efficiency: N/A  
Efficacy: 35.4 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	47	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°	9054	9054	9054
5°	8753	8857	9030
10°	8176	8468	8935
15°	7464	7965	8777
20°	6668	7355	8495
25°	5808	6634	8159
30°	4894	5892	7728
35°	3910	5105	7312
40°	2811	4240	6902
45°	1694	3339	6532
50°	1219	2419	6003
55°	1024	1626	5322
60°	830	1290	4285
65°	654	1172	3081
70°	572	977	1649
75°	536	892	802
80°	531	927	729
85°	790	1324	929

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6532 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	6.5
10°-20°	252.9	17.1
20°-30°	328.1	22.2
30°-40°	315.4	21.3
40°-50°	234.0	15.8
50°-60°	143.3	9.7
60°-70°	69.6	4.7
70°-80°	26.5	1.8
80°-90°	11.9	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°	677.5	45.8
0°-40°	993.0	67.2
0°-60°	1370.3	92.7
0°-90°	1478.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1478.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1013	1027	1025	1034	1045	94
15°	837	861	894	947	984	234
25°	611	642	698	788	859	279
35°	372	405	486	601	696	230
45°	139	174	274	419	536	115
55°	68	71	108	245	354	61
65°	32	35	58	91	151	33
75°	16	25	27	24	24	17
85°	8	13	13	12	9	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1051.4	1051.4	1051.4	1051.4	1051.4
2.5°	1038.0	1050.0	1042.0	1044.7	1046.0
5°	1012.6	1027.3	1024.6	1034.0	1044.7
7.5°	977.8	995.2	1000.5	1019.3	1036.6
10°	935.0	956.4	968.4	999.2	1021.9
12.5°	888.2	910.9	933.7	975.1	1005.9
15°	837.3	861.4	893.5	947.0	984.5
17.5°	783.8	810.6	849.4	913.6	957.7
20°	727.7	755.8	802.6	873.5	927.0
22.5°	670.1	699.6	751.7	830.7	893.5
25°	611.3	642.1	698.2	787.9	858.7
27.5°	551.1	583.2	647.4	742.4	820.0
30°	492.2	523.0	592.6	695.6	777.2
32.5°	432.0	464.2	539.1	647.4	735.7
35°	371.9	405.3	485.6	600.6	695.6
37.5°	310.3	346.4	430.7	555.1	655.4
40°	250.1	284.9	377.2	508.3	614.0
42.5°	191.3	228.7	326.4	461.5	575.2
45°	139.1	173.9	274.2	418.7	536.4
47.5°	104.3	125.7	226.1	378.5	493.6
50°	91.0	95.0	180.6	334.4	448.1
52.5°	78.9	81.6	140.4	286.2	402.6
55°	68.2	70.9	108.3	244.8	354.5
57.5°	57.5	60.2	86.9	204.7	299.6
60°	48.2	50.8	74.9	163.2	248.8
62.5°	40.1	41.5	66.9	124.4	199.3
65°	32.1	34.8	57.5	91.0	151.2
67.5°	26.8	29.4	46.8	62.9	105.7
70°	22.7	29.4	38.8	44.1	65.5
72.5°	18.7	26.8	32.1	30.8	30.8
75°	16.1	25.4	26.8	24.1	24.1
77.5°	13.4	22.7	21.4	20.1	18.7
80°	10.7	18.7	18.7	16.1	14.7
82.5°	9.4	14.7	14.7	14.7	12.0
85°	8.0	13.4	13.4	12.0	9.4
87.5°	5.4	10.7	12.0	10.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)