

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: P1060523

Luminaire Tested: S124RDR-S575D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060523  
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-S575D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

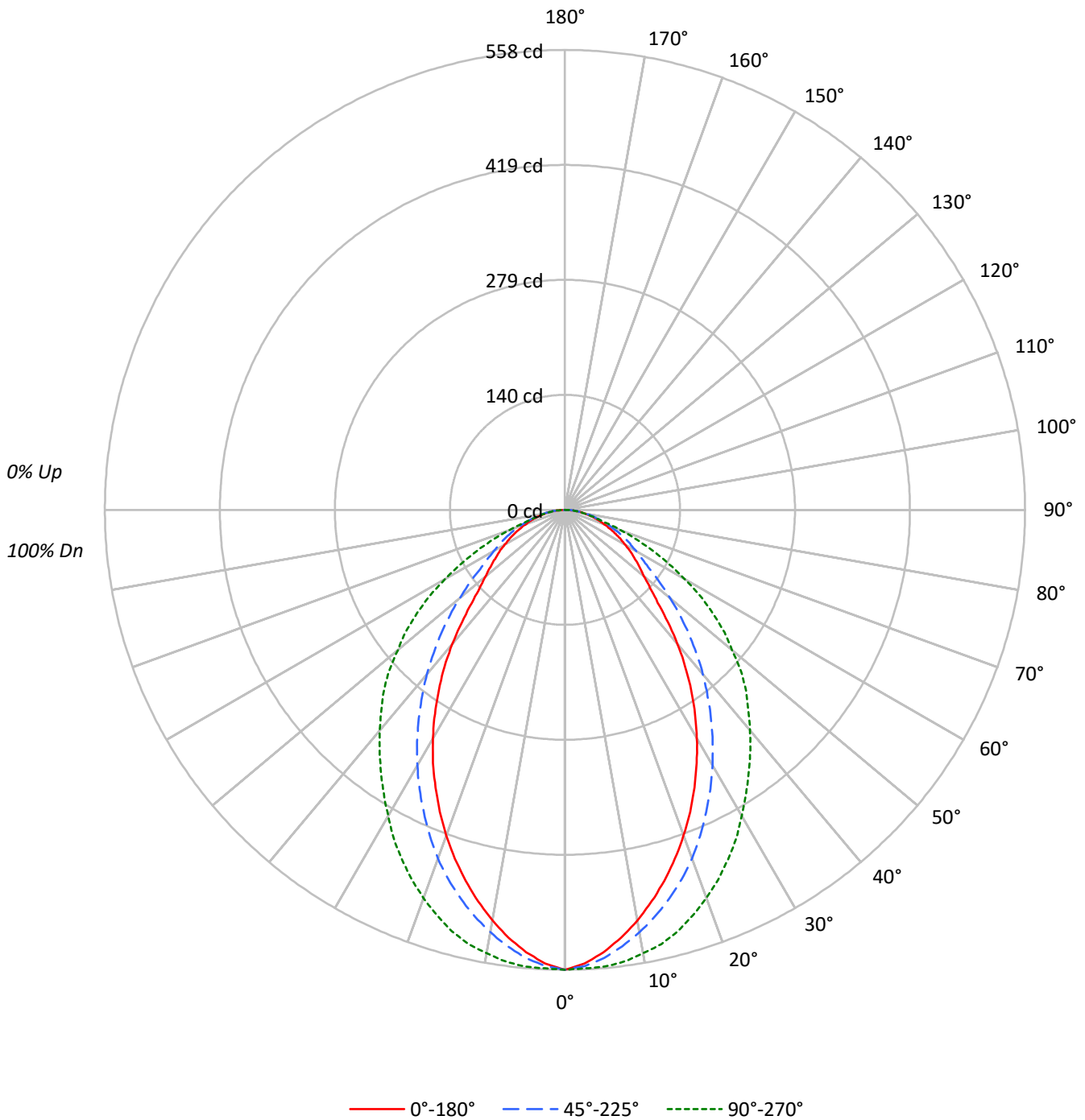
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1015.8 lumens  
Efficiency: N/A  
Efficacy: 51.8 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): 19.6  
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°	4805	4805	4805
5°	4657	4717	4808
10°	4424	4551	4777
15°	4151	4354	4719
20°	3853	4127	4593
25°	3529	3845	4446
30°	3181	3559	4263
35°	2804	3246	4088
40°	2386	2926	3925
45°	1938	2585	3782
50°	1677	2225	3542
55°	1554	1887	3283
60°	1450	1702	2881
65°	1359	1597	2396
70°	1266	1473	1810
75°	1208	1361	1304
80°	1131	1245	1101
85°	1037	1156	869

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3782 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.5	5.1
10°-20°	138.5	13.6
20°-30°	189.1	18.6
30°-40°	198.1	19.5
40°-50°	171.5	16.9
50°-60°	128.8	12.7
60°-70°	83.1	8.2
70°-80°	42.6	4.2
80°-90°	12.7	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°	379.1	37.3
0°-40°	577.1	56.8
0°-60°	877.4	86.4
0°-90°	1015.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1015.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	539	547	546	550	556	50
15°	466	477	488	511	529	131
25°	371	385	405	436	468	170
35°	267	282	309	350	389	166
45°	159	176	212	264	311	125
55°	104	107	126	180	219	93
65°	67	68	78	95	118	66
75°	36	40	41	40	39	38
85°	10	12	12	11	9	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	558.0	558.0	558.0	558.0	558.0
2.5°	551.0	558.0	553.9	555.1	556.8
5°	538.7	546.9	545.7	549.8	556.2
7.5°	523.5	532.2	534.0	543.4	552.7
10°	505.9	515.9	520.5	534.6	546.3
12.5°	486.6	497.1	505.3	522.9	539.8
15°	465.6	477.3	488.4	510.6	529.3
17.5°	443.9	455.6	470.2	494.8	515.9
20°	420.5	433.4	450.4	476.1	501.2
22.5°	396.5	410.0	428.1	456.2	485.5
25°	371.4	385.4	404.7	436.3	467.9
27.5°	346.2	360.3	381.9	415.3	449.8
30°	319.9	334.6	357.9	394.2	428.7
32.5°	293.6	309.4	333.4	372.0	408.8
35°	266.7	281.9	308.8	349.8	388.9
37.5°	239.8	255.6	284.3	328.1	369.1
40°	212.3	228.7	260.3	306.5	349.2
42.5°	184.8	202.4	235.7	284.3	329.3
45°	159.1	175.5	212.3	264.4	310.6
47.5°	139.8	150.9	188.9	245.1	289.5
50°	125.2	131.0	166.1	224.0	264.4
52.5°	114.1	118.1	145.1	201.2	243.9
55°	103.5	107.0	125.7	179.6	218.7
57.5°	94.2	95.9	111.1	158.5	194.8
60°	84.2	86.0	98.8	135.7	167.3
62.5°	75.4	76.6	88.9	114.1	142.1
65°	66.7	67.8	78.4	94.8	117.6
67.5°	58.5	60.2	68.4	77.2	93.6
70°	50.3	53.8	58.5	62.6	71.9
72.5°	43.3	46.8	49.1	50.3	50.9
75°	36.3	40.4	40.9	40.4	39.2
77.5°	29.2	32.8	32.8	31.6	30.4
80°	22.8	25.7	25.1	24.0	22.2
82.5°	17.0	18.7	18.1	17.0	15.2
85°	10.5	12.3	11.7	11.1	8.8
87.5°	5.3	7.0	6.4	5.8	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)