

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: P1060499

Luminaire Tested: S124RDR-S575D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S575D927-X4F0-XX-UDD-BVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

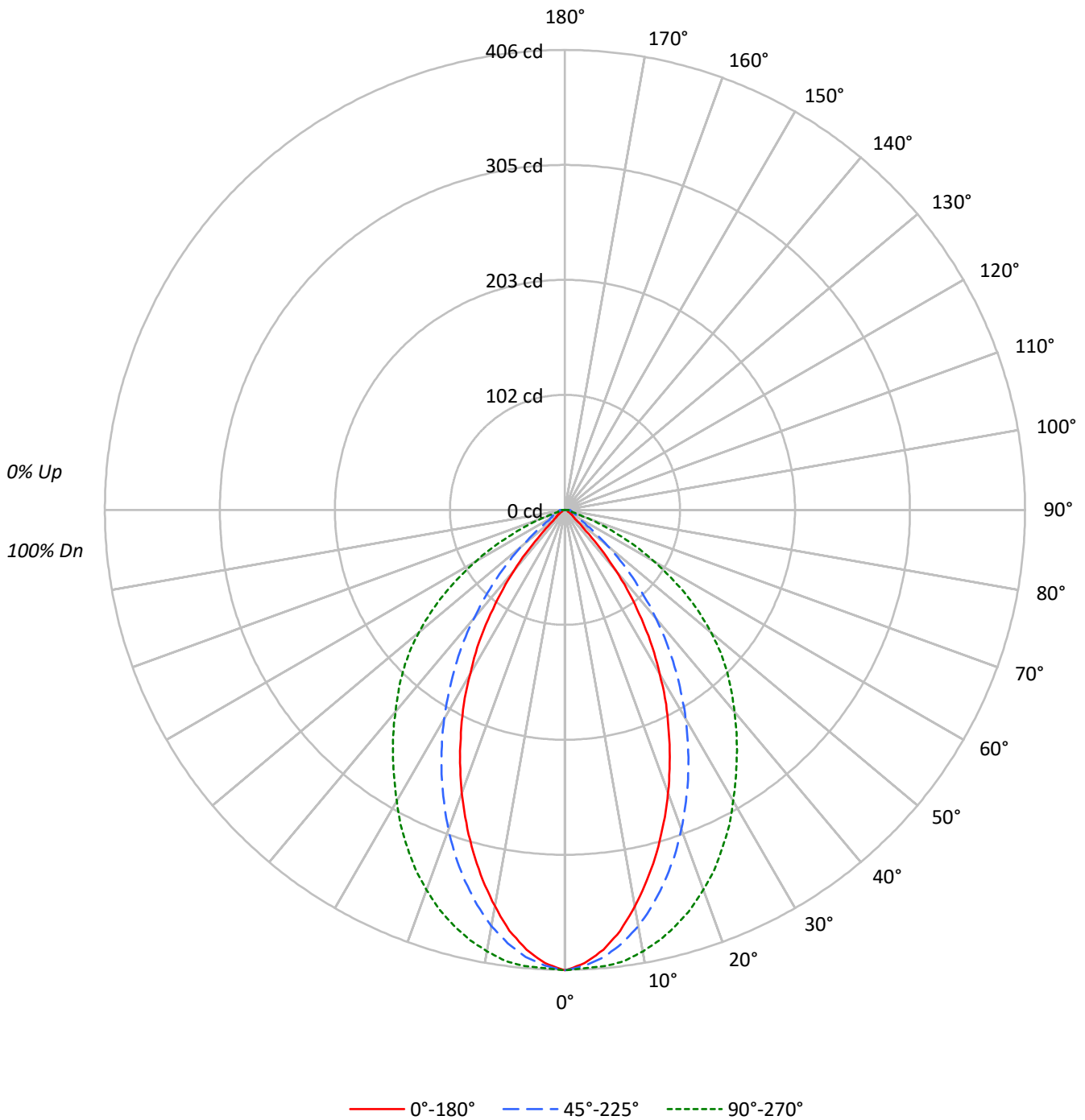
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 510.2 lumens  
Efficiency: N/A  
Efficacy: 26.0 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97  
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	
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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

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

	0°	45°	90°
0°	3500	3500	3500
5°	3369	3426	3496
10°	3108	3262	3460
15°	2789	3028	3384
20°	2438	2753	3271
25°	2062	2446	3126
30°	1665	2120	2950
35°	1239	1771	2779
40°	787	1404	2615
45°	314	1029	2465
50°	137	656	2251
55°	105	339	1964
60°	74	233	1559
65°	55	230	1064
70°	55	204	488
75°	73	216	196
80°	109	238	213
85°	217	425	316

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2465 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.2	7.3
10°-20°	96.0	18.8
20°-30°	121.2	23.8
30°-40°	111.4	21.8
40°-50°	75.9	14.9
50°-60°	41.2	8.1
60°-70°	17.5	3.4
70°-80°	6.0	1.2
80°-90°	3.8	0.7
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°	254.4	49.9
0°-40°	365.8	71.7
0°-60°	482.9	94.6
0°-90°	510.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	510.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	390	396	396	400	404	36
15°	313	323	340	364	380	87
25°	217	231	257	297	329	99
35°	118	134	168	221	264	73
45°	26	42	84	150	202	24
55°	7	8	23	82	131	6
65°	3	3	11	26	52	3
75°	2	6	6	6	6	2
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	406.5	406.5	406.5	406.5	406.5
2.5°	400.6	405.4	402.7	403.8	404.9
5°	389.8	395.7	396.3	399.5	404.4
7.5°	374.7	381.7	386.0	394.1	401.7
10°	355.4	364.0	373.1	386.0	395.7
12.5°	334.9	344.1	357.5	375.8	388.7
15°	312.8	323.1	339.7	364.0	379.6
17.5°	289.7	301.0	320.9	349.4	369.4
20°	266.0	278.4	300.4	332.7	357.0
22.5°	241.8	254.7	278.9	315.5	344.1
25°	217.0	231.0	257.4	297.2	329.0
27.5°	193.3	206.2	235.3	278.9	313.9
30°	167.4	182.0	213.2	260.1	296.7
32.5°	143.8	157.8	190.6	240.7	280.5
35°	117.9	133.5	168.5	221.3	264.4
37.5°	93.7	108.8	147.0	203.0	248.8
40°	70.0	85.6	124.9	184.7	232.6
42.5°	46.8	63.5	103.9	165.8	217.5
45°	25.8	41.5	84.5	149.7	202.4
47.5°	13.5	22.6	66.2	133.5	186.3
50°	10.2	12.4	49.0	115.8	168.0
52.5°	8.6	9.2	33.4	98.0	149.7
55°	7.0	7.5	22.6	82.4	130.8
57.5°	5.4	5.9	16.2	67.3	109.8
60°	4.3	4.8	13.5	51.7	90.5
62.5°	3.2	3.8	12.9	38.2	71.1
65°	2.7	3.2	11.3	25.8	52.2
67.5°	2.2	3.2	9.7	16.7	35.0
70°	2.2	4.3	8.1	10.8	19.4
72.5°	2.2	4.8	7.0	7.0	7.0
75°	2.2	5.9	6.5	5.9	5.9
77.5°	2.2	5.4	5.4	5.4	5.4
80°	2.2	4.8	4.8	4.8	4.3
82.5°	2.2	4.3	4.8	4.8	3.8
85°	2.2	4.3	4.3	4.3	3.2
87.5°	1.6	4.3	4.3	4.3	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)