

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: P1060519

Luminaire Tested: S124RDR-S575D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060519  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S575D935-X4F0-XX-UDD-SVL-B  
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

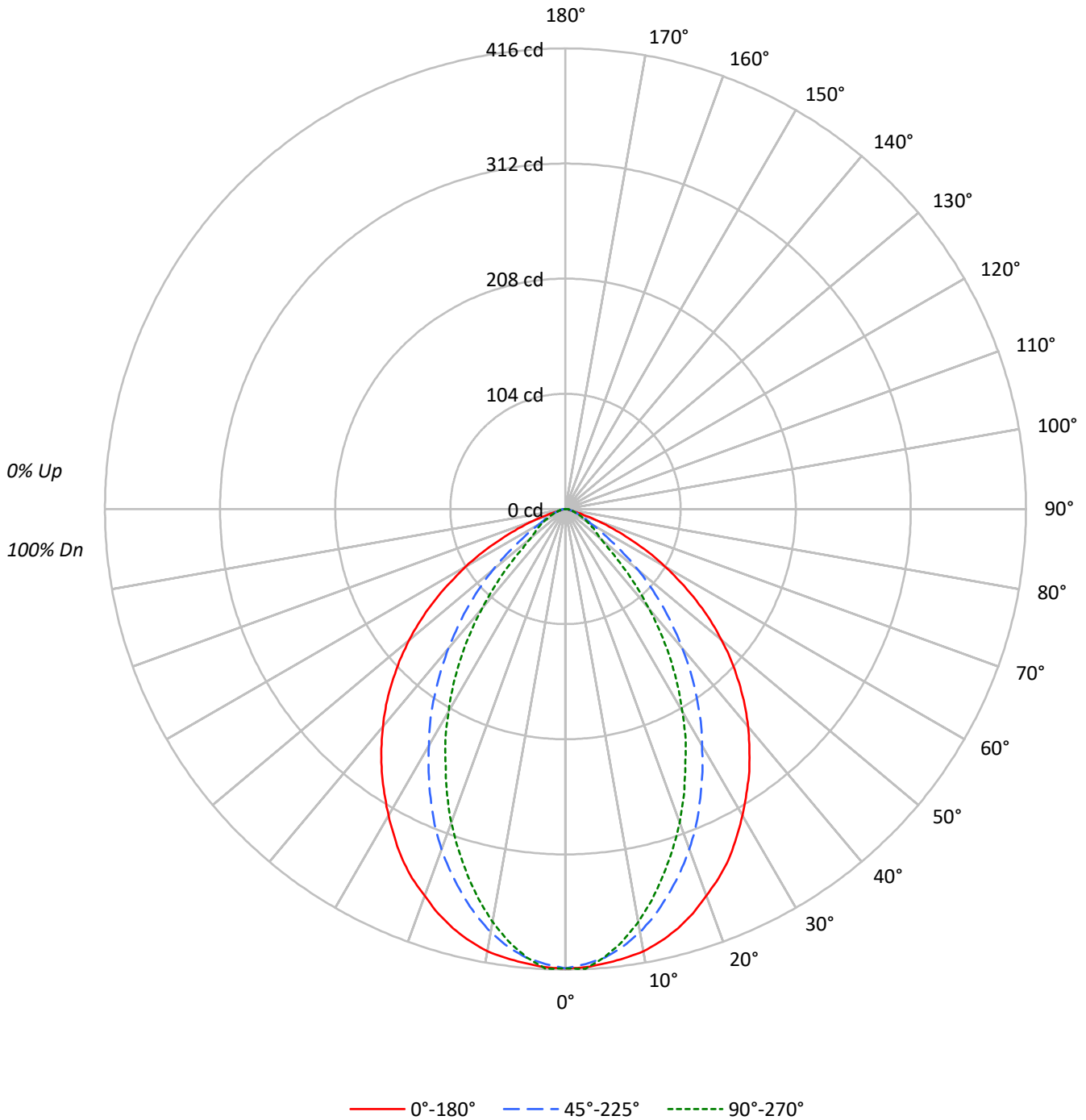
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 611.9 lumens  
Efficiency: N/A  
Efficacy: 31.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02  
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	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	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				
5	84	74	66	61	82	73	66	60	71	65	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	48	47				
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43				
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39				
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36				

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

	0°	45°	90°
0°	3574	3574	3574
5°	3562	3516	3512
10°	3547	3394	3312
15°	3496	3210	3049
20°	3407	2999	2764
25°	3316	2738	2432
30°	3179	2453	2098
35°	3042	2169	1732
40°	2884	1847	1314
45°	2697	1509	883
50°	2466	1143	548
55°	2168	755	465
60°	1791	463	382
65°	1298	357	310
70°	707	264	237
75°	156	193	213
80°	114	144	174
85°	119	119	178

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2697 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.4	6.3
10°-20°	102.1	16.7
20°-30°	135.3	22.1
30°-40°	134.3	21.9
40°-50°	103.3	16.9
50°-60°	61.6	10.1
60°-70°	28.0	4.6
70°-80°	7.2	1.2
80°-90°	1.6	0.3
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°	275.9	45.1
0°-40°	410.1	67.0
0°-60°	575.1	94.0
0°-90°	611.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	611.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	412	413	407	407	406	39
15°	392	382	360	348	342	110
25°	349	324	288	264	256	160
35°	289	253	206	175	165	181
45°	222	178	124	86	72	171
55°	144	103	50	32	31	129
65°	64	38	18	15	15	64
75°	5	6	6	6	6	10
85°	1	1	1	2	2	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	415.0	415.0	415.0	415.0	415.0
2.5°	414.4	415.0	411.5	414.4	415.6
5°	412.1	412.7	406.8	406.8	406.3
7.5°	409.2	408.0	398.7	395.2	394.0
10°	405.7	401.6	388.1	381.1	378.8
12.5°	399.8	393.4	375.3	365.3	361.3
15°	392.2	382.3	360.1	347.8	342.0
17.5°	382.9	370.6	344.3	328.5	322.1
20°	371.8	355.4	327.3	307.5	301.6
22.5°	361.3	340.8	308.6	285.8	279.4
25°	349.0	323.8	288.2	264.2	256.0
27.5°	334.4	307.5	267.7	243.2	235.0
30°	319.7	289.9	246.7	221.0	211.0
32.5°	304.5	271.8	227.4	198.2	188.8
35°	289.4	253.1	206.3	174.8	164.8
37.5°	273.0	234.4	185.3	152.6	141.5
40°	256.6	216.3	164.3	130.9	116.9
42.5°	239.7	197.6	143.8	108.7	94.7
45°	221.5	178.3	123.9	86.5	72.5
47.5°	203.4	160.2	104.0	64.9	52.0
50°	184.1	140.9	85.3	47.3	40.9
52.5°	164.8	122.2	66.6	36.8	35.1
55°	144.4	102.9	50.3	31.6	31.0
57.5°	123.3	85.3	36.2	27.5	26.3
60°	104.0	69.0	26.9	23.4	22.2
62.5°	84.2	52.0	22.2	19.3	18.1
65°	63.7	38.0	17.5	15.2	15.2
67.5°	46.2	25.7	14.0	12.3	11.7
70°	28.1	15.8	10.5	9.9	9.4
72.5°	14.0	9.4	8.2	7.6	7.6
75°	4.7	5.8	5.8	6.4	6.4
77.5°	3.5	4.1	4.1	4.7	4.7
80°	2.3	2.9	2.9	3.5	3.5
82.5°	1.8	1.8	2.3	2.3	2.9
85°	1.2	1.2	1.2	1.8	1.8
87.5°	0.6	0.6	0.6	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)