

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: P1060505

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060505
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-S575D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

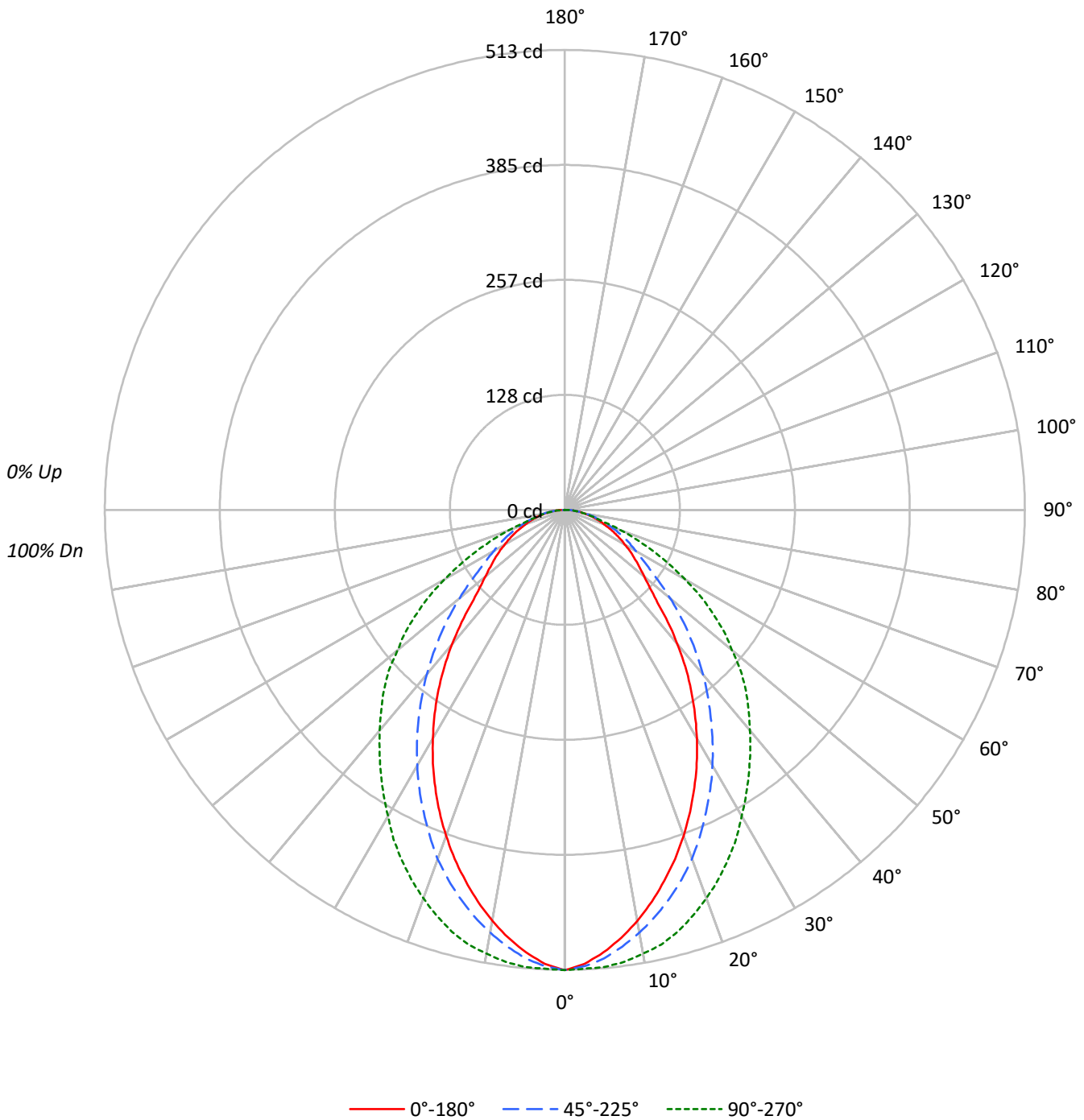
Lumens per Lamp: N/A
Luminaire Lumens: 934.6 lumens
Efficiency: N/A
Efficacy: 47.7 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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										
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	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°	4421	4421	4421
5°	4284	4340	4424
10°	4070	4187	4395
15°	3819	4005	4342
20°	3545	3797	4226
25°	3247	3538	4090
30°	2927	3274	3923
35°	2580	2987	3762
40°	2195	2692	3612
45°	1783	2378	3479
50°	1543	2047	3258
55°	1429	1737	3022
60°	1335	1566	2651
65°	1249	1469	2205
70°	1166	1355	1667
75°	1111	1254	1201
80°	1041	1146	1012
85°	958	1067	800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3479 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	5.1
10°-20°	127.4	13.6
20°-30°	174.0	18.6
30°-40°	182.3	19.5
40°-50°	157.7	16.9
50°-60°	118.5	12.7
60°-70°	76.4	8.2
70°-80°	39.2	4.2
80°-90°	11.7	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°	348.8	37.3
0°-40°	531.0	56.8
0°-60°	807.3	86.4
0°-90°	934.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	934.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	496	503	502	506	512	46
15°	428	439	449	470	487	120
25°	342	355	372	401	430	157
35°	245	259	284	322	358	153
45°	146	161	195	243	286	115
55°	95	98	116	165	201	86
65°	61	62	72	87	108	61
75°	33	37	38	37	36	35
85°	10	11	11	10	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.4	513.4	513.4	513.4	513.4
2.5°	506.9	513.4	509.6	510.7	512.3
5°	495.6	503.2	502.1	505.8	511.8
7.5°	481.6	489.7	491.3	499.9	508.5
10°	465.5	474.6	478.9	491.9	502.6
12.5°	447.7	457.4	464.9	481.1	496.7
15°	428.4	439.1	449.3	469.8	487.0
17.5°	408.4	419.2	432.7	455.3	474.6
20°	386.9	398.8	414.4	438.0	461.2
22.5°	364.9	377.2	393.9	419.7	446.7
25°	341.7	354.6	372.4	401.4	430.5
27.5°	318.6	331.5	351.4	382.1	413.8
30°	294.4	307.8	329.3	362.7	394.5
32.5°	270.1	284.7	306.7	342.3	376.2
35°	245.4	259.4	284.1	321.8	357.9
37.5°	220.6	235.2	261.5	301.9	339.6
40°	195.3	210.4	239.5	282.0	321.3
42.5°	170.1	186.2	216.9	261.5	303.0
45°	146.4	161.4	195.3	243.2	285.7
47.5°	128.6	138.8	173.8	225.5	266.4
50°	115.2	120.5	152.8	206.1	243.2
52.5°	104.9	108.7	133.5	185.1	224.4
55°	95.2	98.5	115.7	165.2	201.3
57.5°	86.6	88.3	102.2	145.8	179.2
60°	77.5	79.1	90.9	124.8	153.9
62.5°	69.4	70.5	81.8	104.9	130.8
65°	61.3	62.4	72.1	87.2	108.2
67.5°	53.8	55.4	63.0	71.0	86.1
70°	46.3	49.5	53.8	57.6	66.2
72.5°	39.8	43.1	45.2	46.3	46.8
75°	33.4	37.1	37.7	37.1	36.1
77.5°	26.9	30.1	30.1	29.1	28.0
80°	21.0	23.7	23.1	22.1	20.4
82.5°	15.6	17.2	16.7	15.6	14.0
85°	9.7	11.3	10.8	10.2	8.1
87.5°	4.8	6.5	5.9	5.4	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)