

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: P1060421

Luminaire Tested: S124RDR-S350D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060421
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-S350D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

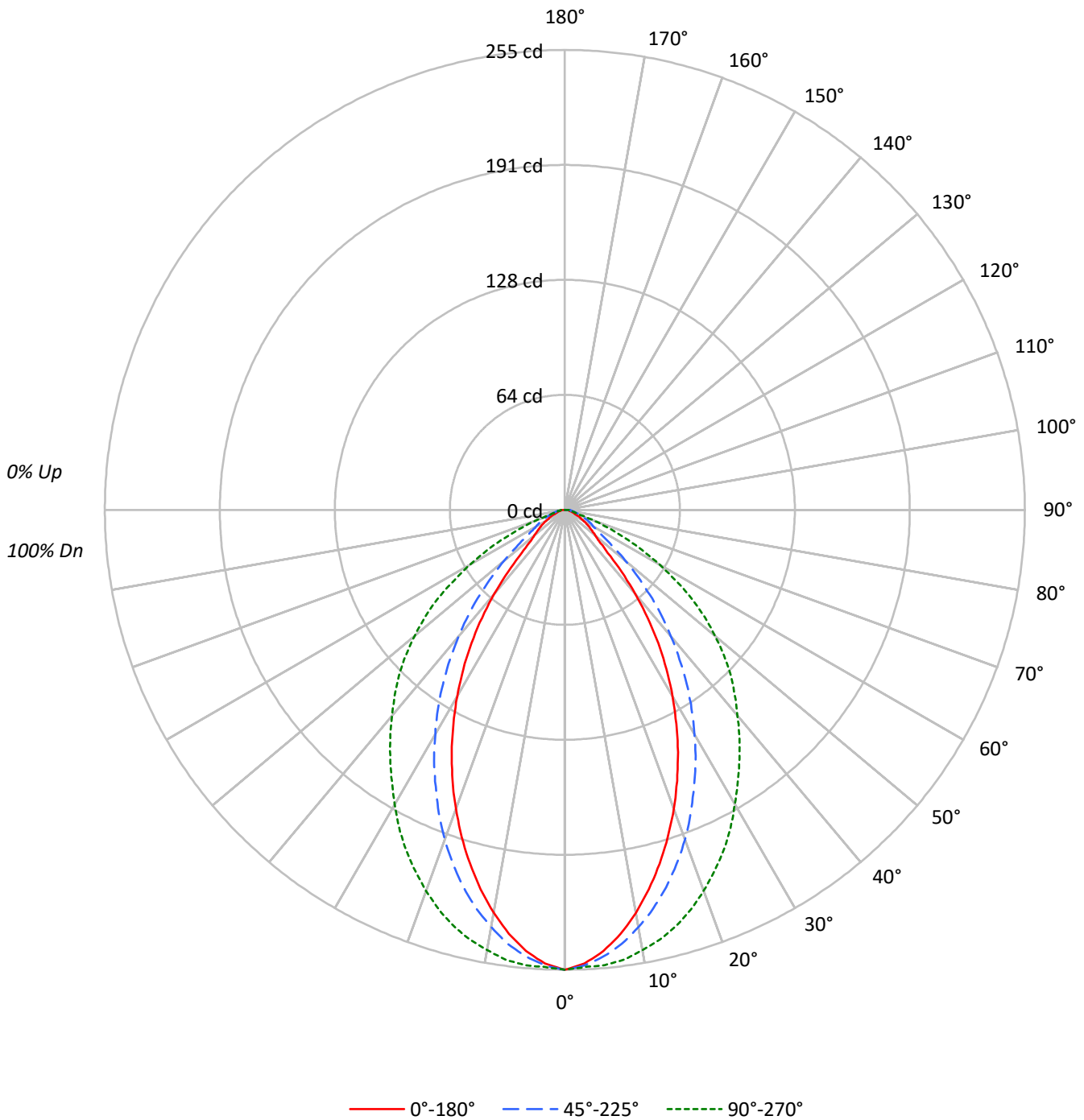
Lumens per Lamp: N/A
Luminaire Lumens: 358.6 lumens
Efficiency: N/A
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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				100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63				63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57				57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47				47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43				43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2196	2196	2196
5°	2123	2148	2190
10°	1983	2054	2168
15°	1811	1932	2129
20°	1617	1784	2060
25°	1409	1610	1979
30°	1187	1429	1874
35°	948	1238	1773
40°	682	1029	1674
45°	410	810	1584
50°	296	587	1456
55°	248	395	1291
60°	202	313	1039
65°	159	285	748
70°	138	237	400
75°	130	216	193
80°	129	223	179
85°	188	316	227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1584 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	6.5
10°-20°	61.3	17.1
20°-30°	79.6	22.2
30°-40°	76.5	21.3
40°-50°	56.8	15.8
50°-60°	34.8	9.7
60°-70°	16.9	4.7
70°-80°	6.4	1.8
80°-90°	2.9	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°	164.3	45.8
0°-40°	240.9	67.2
0°-60°	332.4	92.7
0°-90°	358.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	358.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	255	255	255	255	255	
5°	246	249	248	251	253	23
15°	203	209	217	230	239	57
25°	148	156	169	191	208	68
35°	90	98	118	146	169	56
45°	34	42	66	102	130	28
55°	16	17	26	59	86	15
65°	8	8	14	22	37	8
75°	4	6	6	6	6	4
85°	2	3	3	3	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	255.0	255.0	255.0	255.0	255.0
2.5°	251.8	254.7	252.8	253.4	253.7
5°	245.6	249.2	248.5	250.8	253.4
7.5°	237.2	241.4	242.7	247.2	251.5
10°	226.8	232.0	234.9	242.4	247.9
12.5°	215.4	221.0	226.5	236.5	244.0
15°	203.1	208.9	216.7	229.7	238.8
17.5°	190.1	196.6	206.0	221.6	232.3
20°	176.5	183.3	194.7	211.9	224.8
22.5°	162.6	169.7	182.3	201.5	216.7
25°	148.3	155.7	169.4	191.1	208.3
27.5°	133.7	141.5	157.0	180.1	198.9
30°	119.4	126.9	143.7	168.7	188.5
32.5°	104.8	112.6	130.8	157.0	178.5
35°	90.2	98.3	117.8	145.7	168.7
37.5°	75.3	84.0	104.5	134.6	159.0
40°	60.7	69.1	91.5	123.3	148.9
42.5°	46.4	55.5	79.2	111.9	139.5
45°	33.7	42.2	66.5	101.6	130.1
47.5°	25.3	30.5	54.8	91.8	119.7
50°	22.1	23.0	43.8	81.1	108.7
52.5°	19.1	19.8	34.1	69.4	97.7
55°	16.5	17.2	26.3	59.4	86.0
57.5°	14.0	14.6	21.1	49.6	72.7
60°	11.7	12.3	18.2	39.6	60.3
62.5°	9.7	10.1	16.2	30.2	48.3
65°	7.8	8.4	14.0	22.1	36.7
67.5°	6.5	7.1	11.4	15.2	25.6
70°	5.5	7.1	9.4	10.7	15.9
72.5°	4.5	6.5	7.8	7.5	7.5
75°	3.9	6.2	6.5	5.8	5.8
77.5°	3.2	5.5	5.2	4.9	4.5
80°	2.6	4.5	4.5	3.9	3.6
82.5°	2.3	3.6	3.6	3.6	2.9
85°	1.9	3.2	3.2	2.9	2.3
87.5°	1.3	2.6	2.9	2.6	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)