

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S124RDRP-S350D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S124RDRP-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

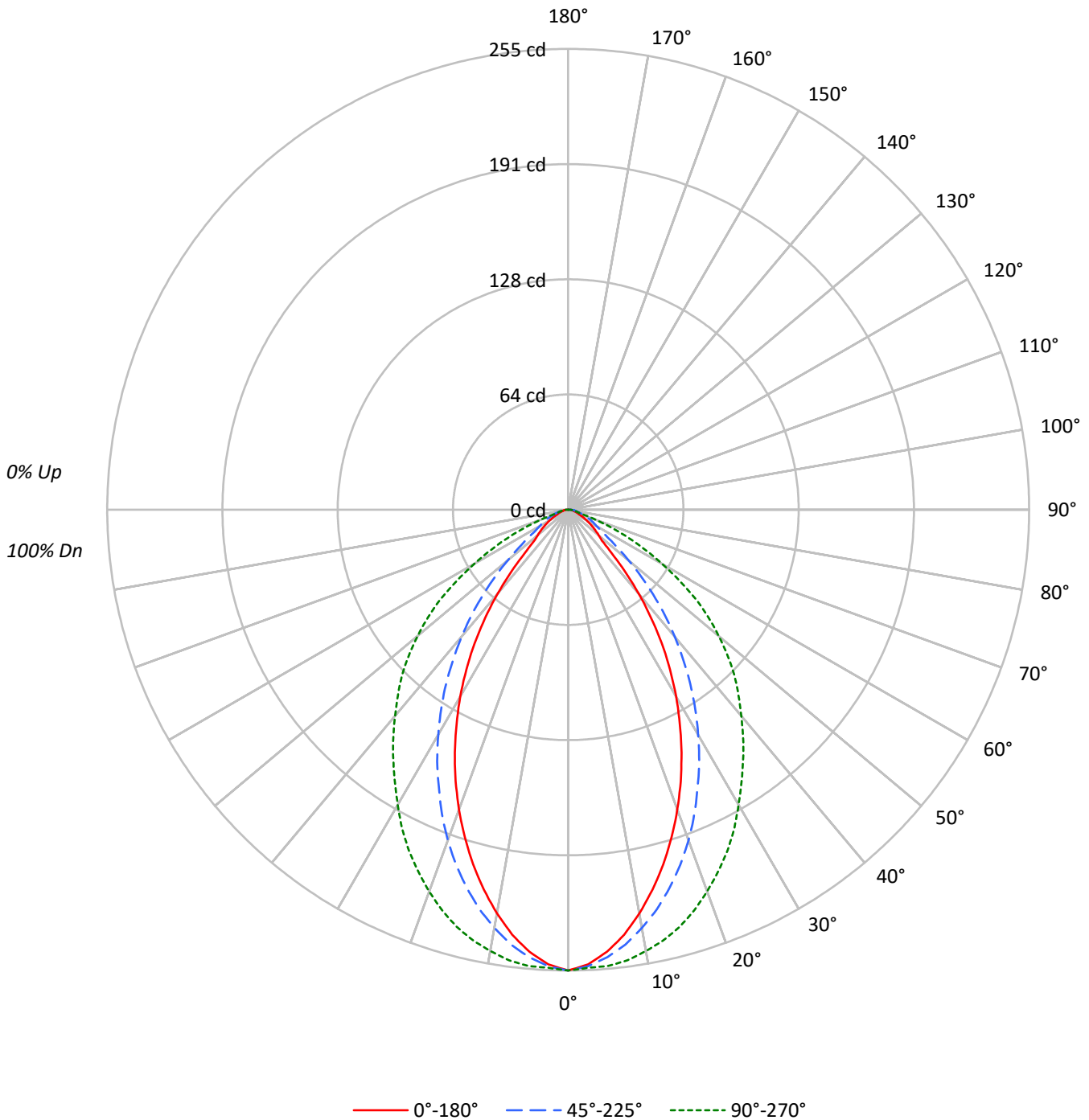
Lumens per Lamp: N/A
Luminaire Lumens: 358.6 lumens
Efficiency: N/A
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): 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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	73	66	61	82	72	65	60	70	64	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	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	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

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	2.55	3.89	2.91	4.20	4.52	11.64	12.98	12.01	13.29	13.61
	3H	3.59	4.77	3.97	5.10	5.47	12.14	13.33	12.52	13.66	14.02
	4H	4.10	5.21	4.51	5.56	5.94	12.16	13.26	12.56	13.61	14.00
	6H	4.55	5.56	4.96	5.93	6.33	12.16	13.17	12.57	13.54	13.94
	8H	4.74	5.71	5.17	6.10	6.50	12.15	13.12	12.58	13.51	13.91
	12H	4.95	5.87	5.38	6.26	6.69	12.15	13.07	12.58	13.46	13.89
4H	2H	3.65	4.76	4.05	5.11	5.49	11.53	12.64	11.93	12.99	13.37
	3H	4.91	5.82	5.32	6.22	6.62	12.11	13.01	12.52	13.42	13.82
	4H	5.62	6.43	6.06	6.85	7.29	12.16	12.97	12.59	13.38	13.83
	6H	6.24	6.94	6.71	7.39	7.85	12.21	12.91	12.67	13.35	13.82
	8H	6.49	7.15	6.96	7.59	8.06	12.23	12.88	12.69	13.33	13.80
	12H	6.76	7.34	7.25	7.82	8.30	12.26	12.84	12.75	13.32	13.79
8H	4H	6.05	6.70	6.52	7.15	7.62	12.10	12.76	12.57	13.20	13.68
	6H	6.91	7.45	7.42	7.94	8.43	12.20	12.73	12.70	13.23	13.71
	8H	7.33	7.81	7.85	8.32	8.81	12.26	12.74	12.78	13.26	13.75
	12H	7.80	8.22	8.31	8.72	9.29	12.36	12.79	12.88	13.28	13.85
12H	4H	6.09	6.67	6.58	7.15	7.63	12.08	12.65	12.56	13.14	13.61
	6H	7.03	7.51	7.55	8.02	8.51	12.18	12.66	12.70	13.17	13.67
	8H	7.55	7.98	8.06	8.47	9.04	12.28	12.71	12.80	13.20	13.78