

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: P1060420

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060420
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-S350D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

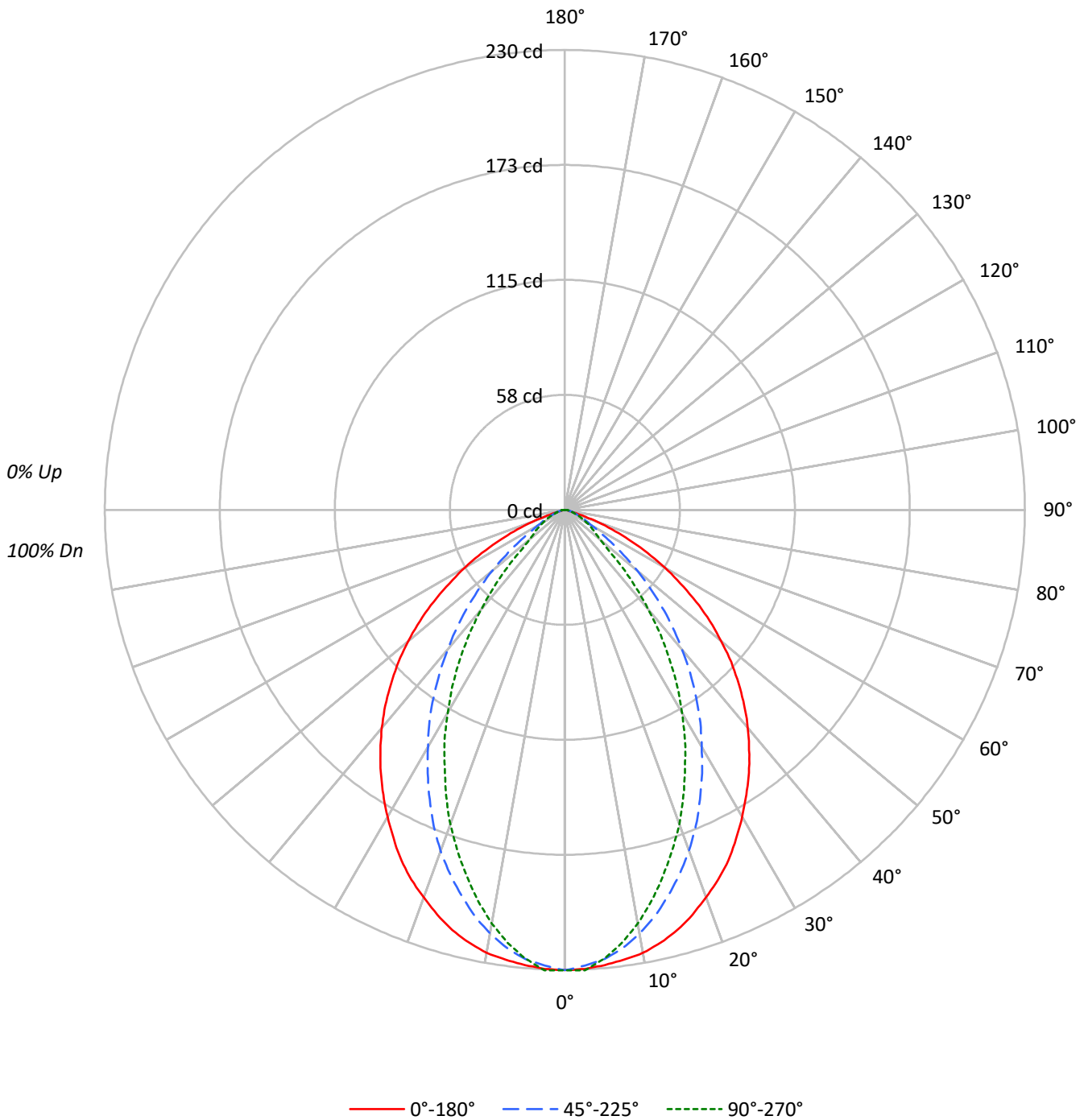
Lumens per Lamp: N/A
Luminaire Lumens: 339.3 lumens
Efficiency: N/A
Efficacy: 27.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	64	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°	1982	1982	1982
5°	1975	1950	1947
10°	1967	1882	1837
15°	1939	1780	1690
20°	1890	1663	1533
25°	1839	1518	1349
30°	1763	1360	1163
35°	1687	1203	961
40°	1600	1024	728
45°	1497	837	490
50°	1368	634	304
55°	1203	419	258
60°	994	257	212
65°	719	198	171
70°	393	146	131
75°	87	106	120
80°	64	79	94
85°	59	59	99

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1497 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	6.3
10°-20°	56.6	16.7
20°-30°	75.0	22.1
30°-40°	74.5	21.9
40°-50°	57.3	16.9
50°-60°	34.2	10.1
60°-70°	15.5	4.6
70°-80°	4.0	1.2
80°-90°	0.9	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°	153.0	45.1
0°-40°	227.4	67.0
0°-60°	318.9	94.0
0°-90°	339.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	339.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	230	230	230	230	230	
5°	228	229	226	226	225	22
15°	218	212	200	193	190	61
25°	194	180	160	146	142	89
35°	160	140	114	97	91	100
45°	123	99	69	48	40	95
55°	80	57	28	18	17	71
65°	35	21	10	8	8	36
75°	3	3	3	4	4	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	230.2	230.2	230.2	230.2	230.2
2.5°	229.8	230.2	228.2	229.8	230.5
5°	228.5	228.9	225.6	225.6	225.3
7.5°	226.9	226.3	221.1	219.1	218.5
10°	225.0	222.7	215.2	211.4	210.1
12.5°	221.7	218.2	208.1	202.6	200.3
15°	217.5	212.0	199.7	192.9	189.6
17.5°	212.3	205.5	190.9	182.2	178.6
20°	206.2	197.1	181.5	170.5	167.3
22.5°	200.3	189.0	171.2	158.5	155.0
25°	193.5	179.6	159.8	146.5	142.0
27.5°	185.4	170.5	148.5	134.9	130.3
30°	177.3	160.8	136.8	122.5	117.0
32.5°	168.9	150.7	126.1	109.9	104.7
35°	160.5	140.4	114.4	96.9	91.4
37.5°	151.4	130.0	102.8	84.6	78.4
40°	142.3	119.9	91.1	72.6	64.8
42.5°	132.9	109.6	79.7	60.3	52.5
45°	122.9	98.9	68.7	48.0	40.2
47.5°	112.8	88.8	57.7	36.0	28.9
50°	102.1	78.1	47.3	26.3	22.7
52.5°	91.4	67.8	37.0	20.4	19.4
55°	80.1	57.1	27.9	17.5	17.2
57.5°	68.4	47.3	20.1	15.2	14.6
60°	57.7	38.3	14.9	13.0	12.3
62.5°	46.7	28.9	12.3	10.7	10.0
65°	35.3	21.1	9.7	8.4	8.4
67.5°	25.6	14.3	7.8	6.8	6.5
70°	15.6	8.8	5.8	5.5	5.2
72.5°	7.8	5.2	4.5	4.2	4.2
75°	2.6	3.2	3.2	3.6	3.6
77.5°	1.9	2.3	2.3	2.6	2.6
80°	1.3	1.6	1.6	1.9	1.9
82.5°	1.0	1.0	1.3	1.3	1.6
85°	0.6	0.6	0.6	1.0	1.0
87.5°	0.3	0.3	0.3	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)