

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: P1060429

Luminaire Tested: S124RDR-S350D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060429
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-S350D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

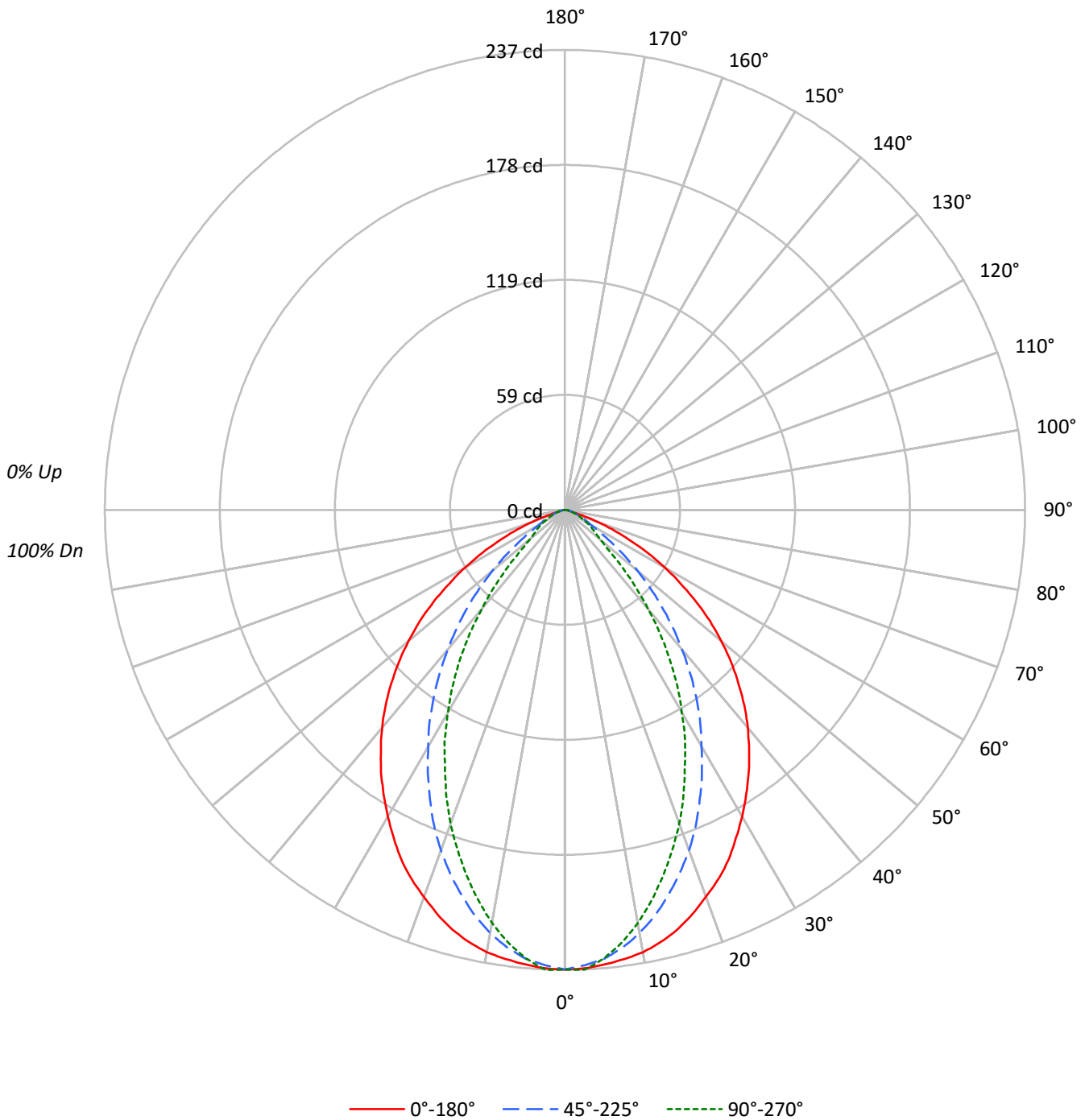
Lumens per Lamp: N/A
Luminaire Lumens: 349.2 lumens
Efficiency: N/A
Efficacy: 27.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1060429

CATALOG NUMBER: S124RDR-S350D930-X4F0-XX-UDD-SVL-B

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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90			90	
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80			80	
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71			71	
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63	
5	84	74	66	61	82	73	66	60	71	65	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	48	47			47	
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43			43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2040	2040	2040
5°	2033	2007	2005
10°	2024	1937	1890
15°	1996	1832	1740
20°	1945	1712	1578
25°	1893	1563	1388
30°	1815	1400	1197
35°	1736	1238	989
40°	1647	1053	750
45°	1539	861	504
50°	1408	652	313
55°	1237	431	266
60°	1023	264	219
65°	742	204	177
70°	403	151	133
75°	90	110	123
80°	64	84	99
85°	69	69	99

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1539 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.9	6.3
10°-20°	58.3	16.7
20°-30°	77.2	22.1
30°-40°	76.6	21.9
40°-50°	59.0	16.9
50°-60°	35.1	10.1
60°-70°	16.0	4.6
70°-80°	4.1	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°	157.4	45.1
0°-40°	234.1	67.0
0°-60°	328.2	94.0
0°-90°	349.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	349.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	237	237	237	237	237	
5°	235	236	232	232	232	22
15°	224	218	206	198	195	63
25°	199	185	164	151	146	91
35°	165	144	118	100	94	103
45°	126	102	71	49	41	97
55°	82	59	29	18	18	73
65°	36	22	10	9	9	37
75°	3	3	3	4	4	6
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°	236.9	236.9	236.9	236.9	236.9
2.5°	236.5	236.9	234.9	236.5	237.2
5°	235.2	235.5	232.2	232.2	231.9
7.5°	233.5	232.9	227.5	225.5	224.9
10°	231.5	229.2	221.5	217.5	216.2
12.5°	228.2	224.5	214.2	208.5	206.2
15°	223.9	218.2	205.5	198.5	195.2
17.5°	218.5	211.5	196.5	187.5	183.8
20°	212.2	202.8	186.8	175.5	172.2
22.5°	206.2	194.5	176.2	163.1	159.5
25°	199.2	184.8	164.5	150.8	146.1
27.5°	190.8	175.5	152.8	138.8	134.1
30°	182.5	165.5	140.8	126.1	120.4
32.5°	173.8	155.1	129.8	113.1	107.8
35°	165.1	144.5	117.8	99.8	94.1
37.5°	155.8	133.8	105.8	87.1	80.7
40°	146.5	123.4	93.7	74.7	66.7
42.5°	136.8	112.8	82.1	62.1	54.0
45°	126.4	101.8	70.7	49.4	41.4
47.5°	116.1	91.4	59.4	37.0	29.7
50°	105.1	80.4	48.7	27.0	23.4
52.5°	94.1	69.7	38.0	21.0	20.0
55°	82.4	58.7	28.7	18.0	17.7
57.5°	70.4	48.7	20.7	15.7	15.0
60°	59.4	39.4	15.3	13.3	12.7
62.5°	48.0	29.7	12.7	11.0	10.3
65°	36.4	21.7	10.0	8.7	8.7
67.5°	26.4	14.7	8.0	7.0	6.7
70°	16.0	9.0	6.0	5.7	5.3
72.5°	8.0	5.3	4.7	4.3	4.3
75°	2.7	3.3	3.3	3.7	3.7
77.5°	2.0	2.3	2.3	2.7	2.7
80°	1.3	1.7	1.7	2.0	2.0
82.5°	1.0	1.0	1.3	1.3	1.7
85°	0.7	0.7	0.7	1.0	1.0
87.5°	0.3	0.3	0.3	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)