

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: P1060432

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S350D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

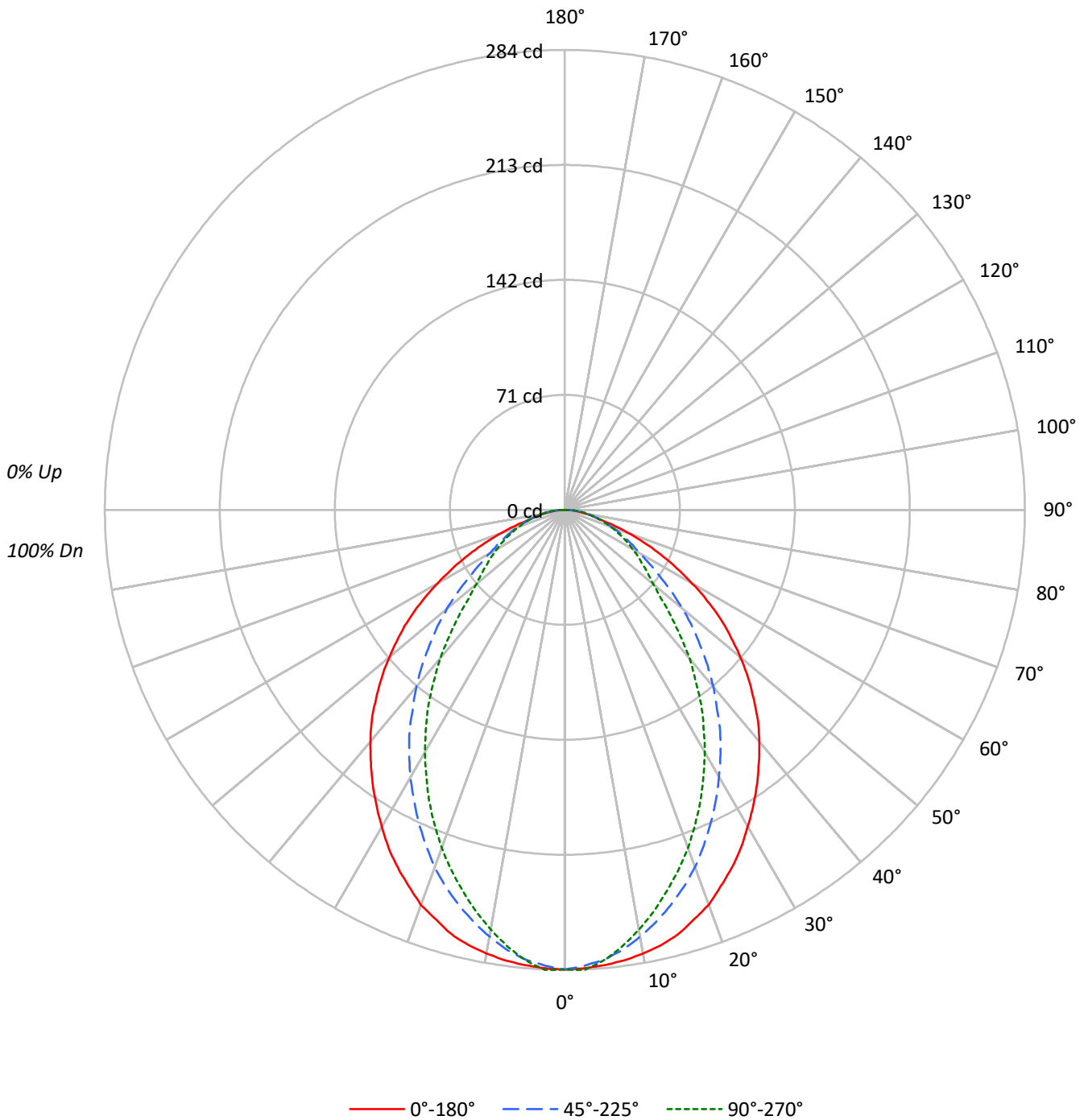
Lumens per Lamp: N/A
Luminaire Lumens: 547.4 lumens
Efficiency: N/A
Efficacy: 43.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2445	2445	2445
5°	2439	2411	2413
10°	2433	2340	2301
15°	2418	2252	2171
20°	2379	2153	2036
25°	2317	2026	1883
30°	2246	1894	1718
35°	2174	1757	1543
40°	2100	1602	1347
45°	2007	1438	1125
50°	1896	1270	952
55°	1763	1076	881
60°	1562	913	834
65°	1333	844	789
70°	1042	780	748
75°	712	722	722
80°	610	679	694
85°	524	662	721

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2007 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.4	4.8
10°-20°	71.7	13.1
20°-30°	99.6	18.2
30°-40°	106.8	19.5
40°-50°	94.6	17.3
50°-60°	71.3	13.0
60°-70°	46.1	8.4
70°-80°	23.7	4.3
80°-90°	7.3	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°	197.7	36.1
0°-40°	304.5	55.6
0°-60°	470.4	85.9
0°-90°	547.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	547.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	284	284	284	284	284	
5°	282	283	279	279	279	27
15°	271	265	253	246	244	76
25°	244	231	213	202	198	112
35°	207	188	167	152	147	129
45°	165	144	118	100	92	127
55°	117	98	72	60	59	104
65°	65	53	41	39	39	65
75°	21	22	22	22	22	25
85°	5	6	7	7	7	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	283.9	283.9	283.9	283.9	283.9
2.5°	283.3	284.3	281.6	283.6	284.3
5°	282.2	282.6	278.9	279.2	279.2
7.5°	280.6	279.9	273.9	272.2	271.9
10°	278.2	276.2	267.6	264.2	263.2
12.5°	275.2	271.6	260.6	255.9	253.9
15°	271.2	265.2	252.6	246.2	243.5
17.5°	265.2	257.6	244.2	236.2	233.2
20°	259.6	249.2	234.9	224.9	222.2
22.5°	251.6	240.5	224.2	213.5	210.2
25°	243.9	230.9	213.2	201.8	198.2
27.5°	235.5	220.9	201.8	189.8	185.2
30°	225.9	210.2	190.5	177.8	172.8
32.5°	216.5	199.8	178.8	164.8	159.5
35°	206.8	188.2	167.1	152.1	146.8
37.5°	196.8	177.2	154.1	139.5	132.5
40°	186.8	166.1	142.5	125.8	119.8
42.5°	176.5	154.8	130.4	113.1	105.4
45°	164.8	143.5	118.1	99.8	92.4
47.5°	153.5	132.5	106.8	86.7	80.1
50°	141.5	120.8	94.8	75.4	71.1
52.5°	129.4	108.8	83.1	66.7	64.7
55°	117.4	97.8	71.7	60.4	58.7
57.5°	104.1	86.4	61.7	54.7	53.4
60°	90.7	74.1	53.0	49.4	48.4
62.5°	77.7	63.4	47.0	44.0	43.4
65°	65.4	52.7	41.4	39.0	38.7
67.5°	53.4	43.4	36.0	34.7	34.0
70°	41.4	34.7	31.0	30.4	29.7
72.5°	30.7	28.0	26.4	26.0	25.7
75°	21.4	22.4	21.7	21.7	21.7
77.5°	17.0	17.3	17.7	18.0	17.7
80°	12.3	13.3	13.7	14.3	14.0
82.5°	8.7	9.3	10.3	10.7	11.0
85°	5.3	5.7	6.7	7.3	7.3
87.5°	2.3	2.7	3.3	4.0	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)