

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: P1059059

Luminaire Tested: S123RDR-S1000D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-69)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S1000D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

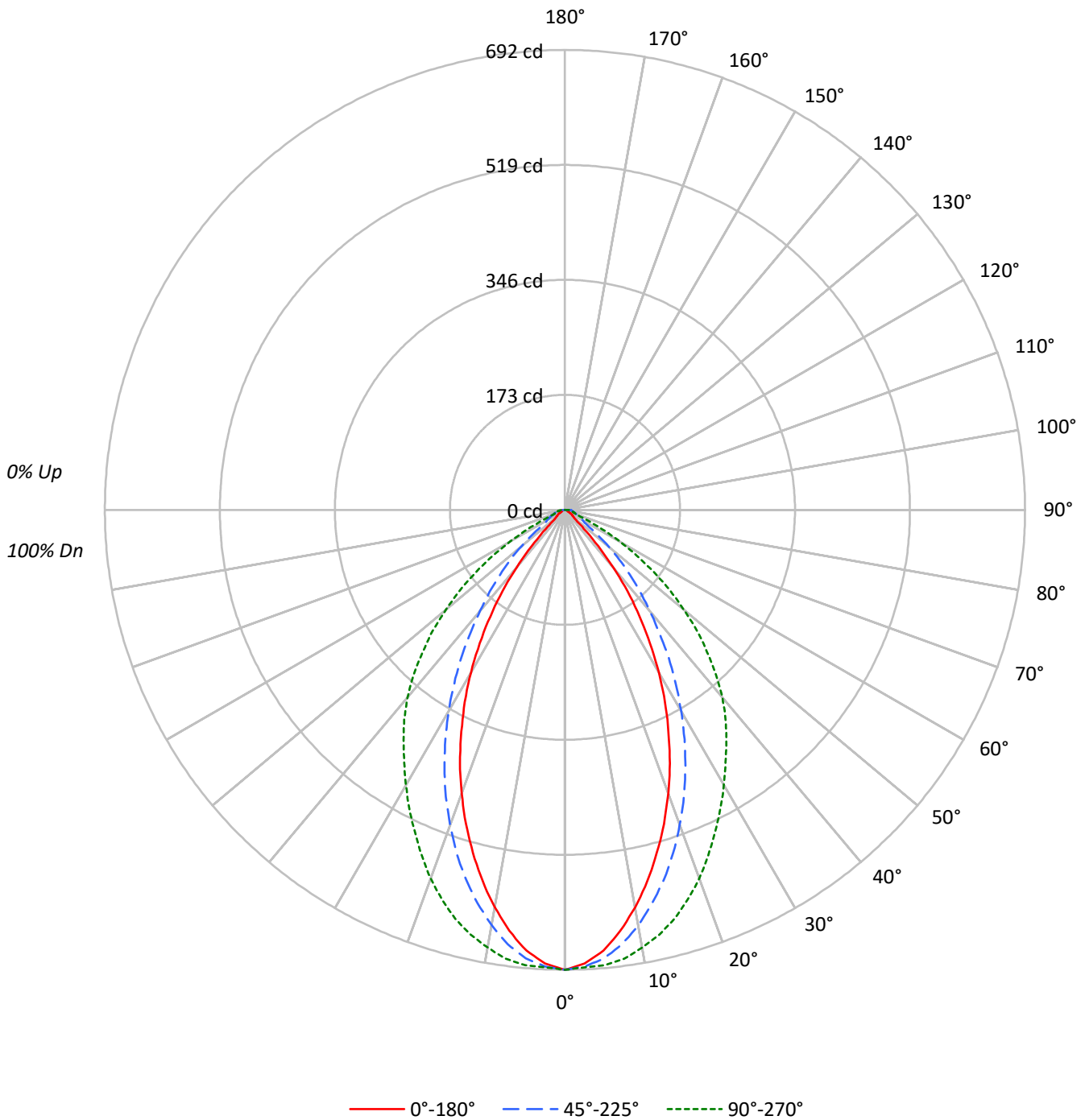
Lumens per Lamp: N/A
Luminaire Lumens: 831.2 lumens
Efficiency: N/A
Efficacy: 23.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.06 / 0.94
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	61	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8126	8126	8126
5°	7844	7982	8106
10°	7241	7569	7973
15°	6495	6997	7744
20°	5672	6307	7378
25°	4771	5552	6923
30°	3830	4735	6484
35°	2805	3898	6067
40°	1735	3034	5644
45°	668	2283	5025
50°	329	1566	4253
55°	260	866	3335
60°	174	721	2236
65°	147	647	1000
70°	144	580	580
75°	191	626	576
80°	284	784	642
85°	431	1280	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	7.6
10°-20°	162.4	19.5
20°-30°	201.6	24.3
30°-40°	180.6	21.7
40°-50°	118.7	14.3
50°-60°	59.5	7.2
60°-70°	23.5	2.8
70°-80°	13.1	1.6
80°-90°	8.3	1.0
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°	427.5	51.4
0°-40°	608.1	73.2
0°-60°	786.3	94.6
0°-90°	831.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	831.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	666	676	677	681	688	62
15°	534	551	576	615	637	149
25°	368	392	428	489	534	168
35°	196	222	272	356	423	121
45°	40	67	138	232	303	38
55°	13	15	42	114	163	11
65°	5	15	23	30	36	5
75°	4	14	14	13	13	4
85°	3	10	10	10	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692.0	692.0	692.0	692.0	692.0
2.5°	683.5	693.0	687.7	687.7	688.8
5°	665.5	676.1	677.2	681.4	687.7
7.5°	639.1	652.8	659.2	671.9	681.4
10°	607.3	622.1	634.8	657.1	668.7
12.5°	572.4	587.2	606.3	637.0	654.9
15°	534.3	551.3	575.6	614.7	637.0
17.5°	495.2	512.1	541.7	586.2	614.7
20°	453.9	473.0	504.7	555.5	590.4
22.5°	412.6	433.8	467.7	522.7	562.9
25°	368.2	391.5	428.5	488.8	534.3
27.5°	325.9	350.2	389.4	455.0	506.8
30°	282.5	306.8	349.2	420.1	478.2
32.5°	238.1	265.6	310.0	387.3	449.7
35°	195.7	222.2	271.9	355.5	423.2
37.5°	154.5	180.9	232.8	324.8	396.8
40°	113.2	140.7	197.9	295.2	368.2
42.5°	74.1	102.6	167.2	265.6	336.5
45°	40.2	66.7	137.5	231.7	302.6
47.5°	22.2	36.0	111.1	200.0	269.8
50°	18.0	20.1	85.7	170.3	232.8
52.5°	14.8	16.9	61.4	141.8	198.9
55°	12.7	14.8	42.3	114.3	162.9
57.5°	10.6	12.7	33.9	87.8	128.0
60°	7.4	12.7	30.7	64.5	95.2
62.5°	6.3	12.7	26.5	44.4	63.5
65°	5.3	14.8	23.3	29.6	36.0
67.5°	4.2	14.8	20.1	19.0	19.0
70°	4.2	14.8	16.9	15.9	16.9
72.5°	4.2	15.9	15.9	14.8	14.8
75°	4.2	13.8	13.8	12.7	12.7
77.5°	4.2	12.7	12.7	11.6	11.6
80°	4.2	11.6	11.6	10.6	9.5
82.5°	4.2	10.6	10.6	9.5	8.5
85°	3.2	9.5	9.5	9.5	6.3
87.5°	3.2	8.5	9.5	8.5	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)