

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: P1059225

Luminaire Tested: S123RDR-S340D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S340D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

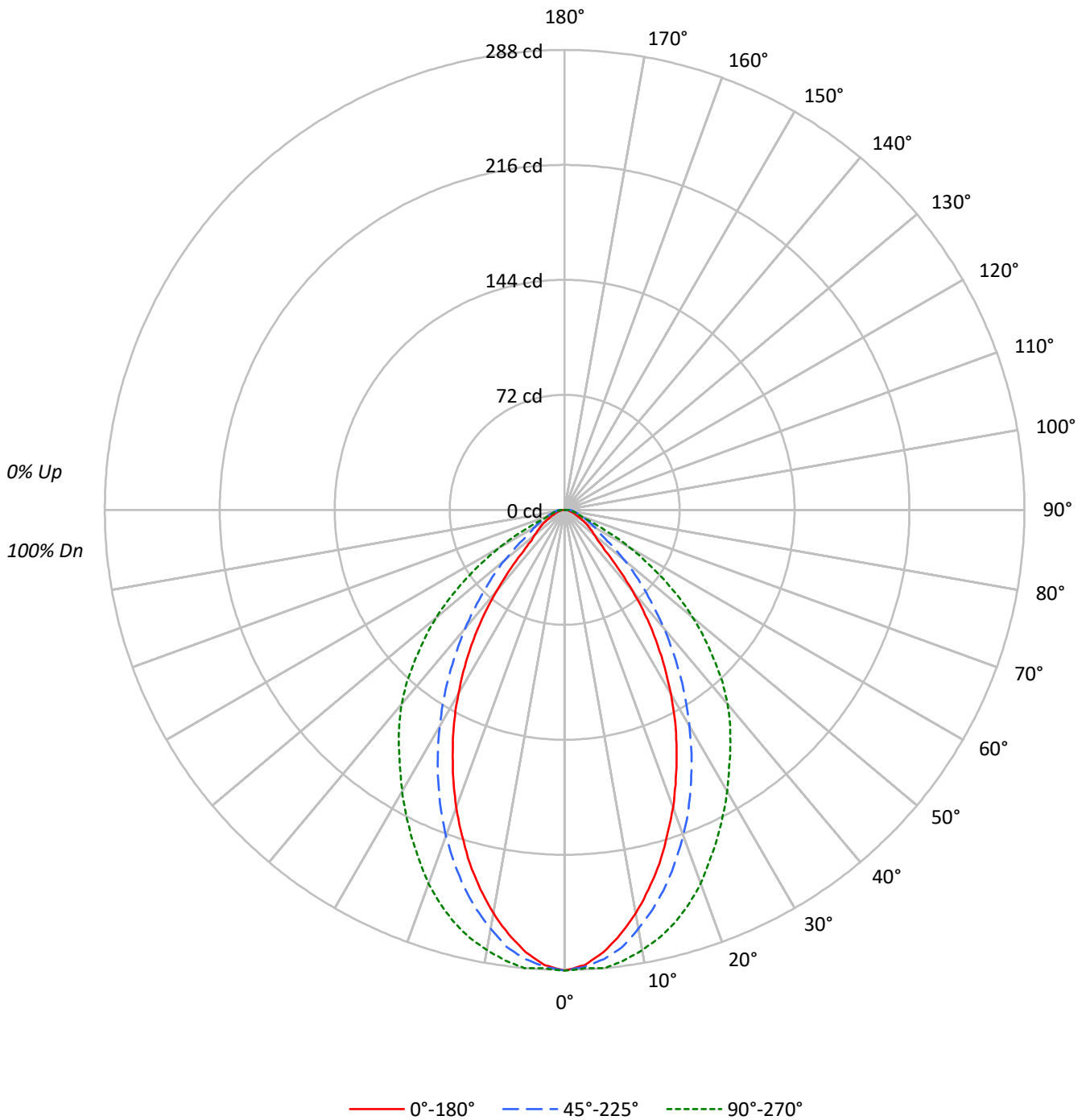
Lumens per Lamp: N/A
Luminaire Lumens: 387.3 lumens
Efficiency: N/A
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64				64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3388	3388	3388
5°	3278	3329	3396
10°	3060	3175	3337
15°	2789	2967	3251
20°	2480	2714	3113
25°	2149	2428	2935
30°	1803	2119	2761
35°	1428	1803	2595
40°	1010	1484	2434
45°	595	1172	2190
50°	446	890	1918
55°	375	602	1542
60°	303	514	1094
65°	239	439	578
70°	209	381	357
75°	195	358	340
80°	196	385	338
85°	243	579	431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2190 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	6.9
10°-20°	69.0	17.8
20°-30°	87.9	22.7
30°-40°	82.7	21.3
40°-50°	59.5	15.4
50°-60°	34.4	8.9
60°-70°	15.7	4.1
70°-80°	7.8	2.0
80°-90°	3.7	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°	183.4	47.4
0°-40°	266.1	68.7
0°-60°	360.0	93.0
0°-90°	387.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	387.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	288	288	288	288	288	
5°	278	283	282	285	288	26
15°	229	238	244	258	267	64
25°	166	174	187	208	226	76
35°	100	108	126	155	181	62
45°	36	45	71	106	132	30
55°	18	19	29	56	75	16
65°	9	12	16	18	21	9
75°	4	8	8	8	8	5
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	288.5	288.5	288.5	288.5	288.5
2.5°	285.3	288.9	286.4	286.7	287.4
5°	278.1	282.8	282.4	285.3	288.1
7.5°	268.1	273.5	276.3	280.6	284.6
10°	256.6	262.7	266.3	274.2	279.9
12.5°	243.3	251.2	255.9	266.3	274.5
15°	229.4	237.6	244.1	257.7	267.4
17.5°	213.6	222.6	230.8	246.9	258.8
20°	198.5	207.1	217.2	234.7	249.1
22.5°	182.1	191.4	202.8	221.5	237.6
25°	165.9	174.5	187.4	208.2	226.5
27.5°	149.8	158.4	172.0	195.0	215.0
30°	133.0	141.9	156.3	181.7	203.6
32.5°	116.5	125.1	141.2	168.8	191.7
35°	99.6	108.2	125.8	154.8	181.0
37.5°	83.1	92.1	110.7	143.4	170.2
40°	65.9	75.6	96.8	131.5	158.8
42.5°	49.8	60.2	82.8	119.3	146.2
45°	35.8	44.8	70.6	106.1	131.9
47.5°	28.0	32.6	59.5	92.5	118.6
50°	24.4	25.1	48.7	79.9	105.0
52.5°	21.1	21.9	38.3	68.1	90.7
55°	18.3	19.0	29.4	55.9	75.3
57.5°	15.4	16.5	24.4	44.4	60.6
60°	12.9	14.3	21.9	34.0	46.6
62.5°	10.4	12.9	18.6	25.1	33.3
65°	8.6	12.2	15.8	17.6	20.8
67.5°	7.2	11.1	13.3	12.5	12.2
70°	6.1	10.0	11.1	10.0	10.4
72.5°	5.0	9.3	9.3	8.6	8.6
75°	4.3	8.2	7.9	7.5	7.5
77.5°	3.6	7.2	6.8	6.5	6.1
80°	2.9	5.7	5.7	5.4	5.0
82.5°	2.5	4.7	4.7	4.7	3.9
85°	1.8	3.9	4.3	3.9	3.2
87.5°	1.4	3.6	3.6	3.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)