

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: P1059043

Luminaire Tested: S123RDR-S1000D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-29)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S1000D927-X4F0-XX-UDD-SVL-B
Description: DEFINE 3 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

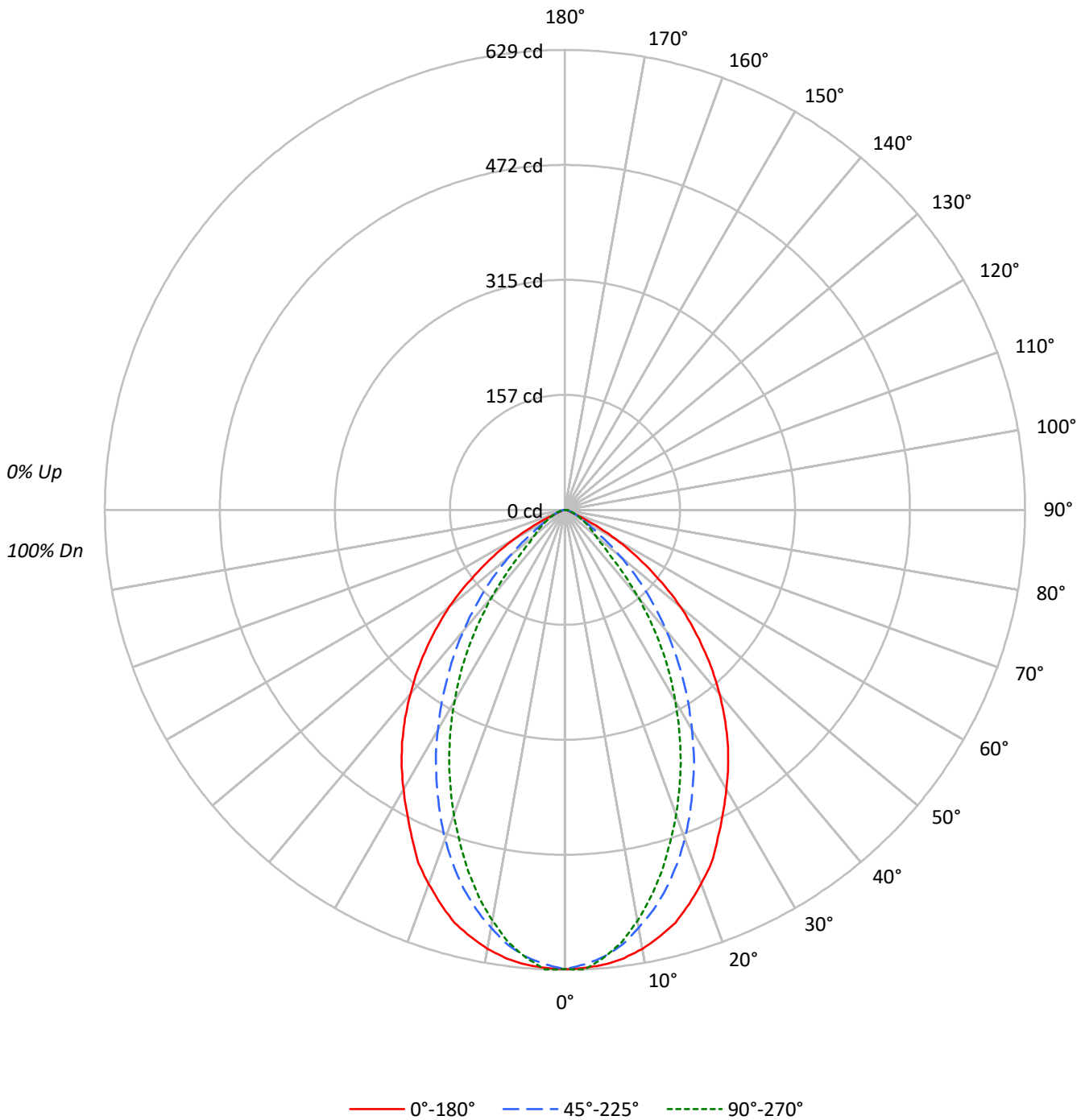
Lumens per Lamp: N/A
Luminaire Lumens: 810.9 lumens
Efficiency: N/A
Efficacy: 23.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 0.85 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	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	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91				91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82				82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				73
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66				66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				60
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55				55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50				50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	48	46				46
9	67	56	49	45	66	56	49	44	55	48	44	54	48	44	53	48	44	42				42
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7375	7375	7375
5°	7358	7232	7243
10°	7269	6920	6805
15°	7103	6512	6217
20°	6804	5989	5552
25°	6412	5367	4850
30°	5985	4706	4087
35°	5560	4014	3290
40°	5037	3308	2385
45°	4441	2567	1436
50°	3765	1794	977
55°	2866	1075	817
60°	1872	686	639
65°	784	514	514
70°	268	367	402
75°	222	263	309
80°	128	196	264
85°	135	135	256

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4441 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	7.2
10°-20°	151.8	18.7
20°-30°	194.7	24.0
30°-40°	182.7	22.5
40°-50°	127.4	15.7
50°-60°	65.9	8.1
60°-70°	22.5	2.8
70°-80°	6.4	0.8
80°-90°	1.4	0.2
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°	404.5	49.9
0°-40°	587.2	72.4
0°-60°	780.5	96.3
0°-90°	810.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	624	623	614	616	614	59
15°	584	570	536	518	511	164
25°	495	464	414	386	374	228
35°	388	340	280	244	230	242
45°	267	219	155	107	86	206
55°	140	105	52	41	40	126
65°	28	24	18	18	18	33
75°	5	5	6	7	7	5
85°	1	1	1	1	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	628.1	628.1	628.1	628.1	628.1
2.5°	627.1	628.1	622.3	628.1	629.1
5°	624.2	623.2	613.5	616.4	614.5
7.5°	618.4	615.4	599.9	596.0	596.0
10°	609.6	603.8	580.4	573.6	570.7
12.5°	597.9	590.2	560.0	547.4	542.5
15°	584.3	569.8	535.7	518.2	511.4
17.5°	564.9	545.4	508.5	488.1	477.4
20°	544.5	520.2	479.3	455.0	444.3
22.5°	523.1	493.9	447.2	421.0	409.3
25°	494.9	463.8	414.2	386.0	374.3
27.5°	467.7	434.6	382.1	350.0	338.4
30°	441.4	402.5	347.1	316.0	301.4
32.5°	415.2	371.4	314.0	280.0	266.4
35°	387.9	340.3	280.0	244.0	229.5
37.5°	358.8	310.2	247.9	209.0	191.5
40°	328.6	278.1	215.8	172.1	155.6
42.5°	298.5	248.9	183.8	139.0	119.6
45°	267.4	218.8	154.6	107.0	86.5
47.5°	236.3	188.6	126.4	77.8	65.1
50°	206.1	160.4	98.2	57.4	53.5
52.5°	173.1	133.2	73.9	47.6	46.7
55°	140.0	105.0	52.5	40.8	39.9
57.5°	110.8	81.7	37.9	34.0	33.1
60°	79.7	58.3	29.2	28.2	27.2
62.5°	52.5	39.9	23.3	22.4	22.4
65°	28.2	24.3	18.5	17.5	18.5
67.5°	11.7	13.6	13.6	14.6	14.6
70°	7.8	8.8	10.7	11.7	11.7
72.5°	5.8	6.8	7.8	8.8	8.8
75°	4.9	4.9	5.8	6.8	6.8
77.5°	2.9	3.9	3.9	4.9	5.8
80°	1.9	2.9	2.9	3.9	3.9
82.5°	1.0	1.9	1.9	2.9	2.9
85°	1.0	1.0	1.0	1.0	1.9
87.5°	0.0	0.0	0.0	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)