

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: P1059061

Luminaire Tested: S123RDR-S1000D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059061
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-S1000D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

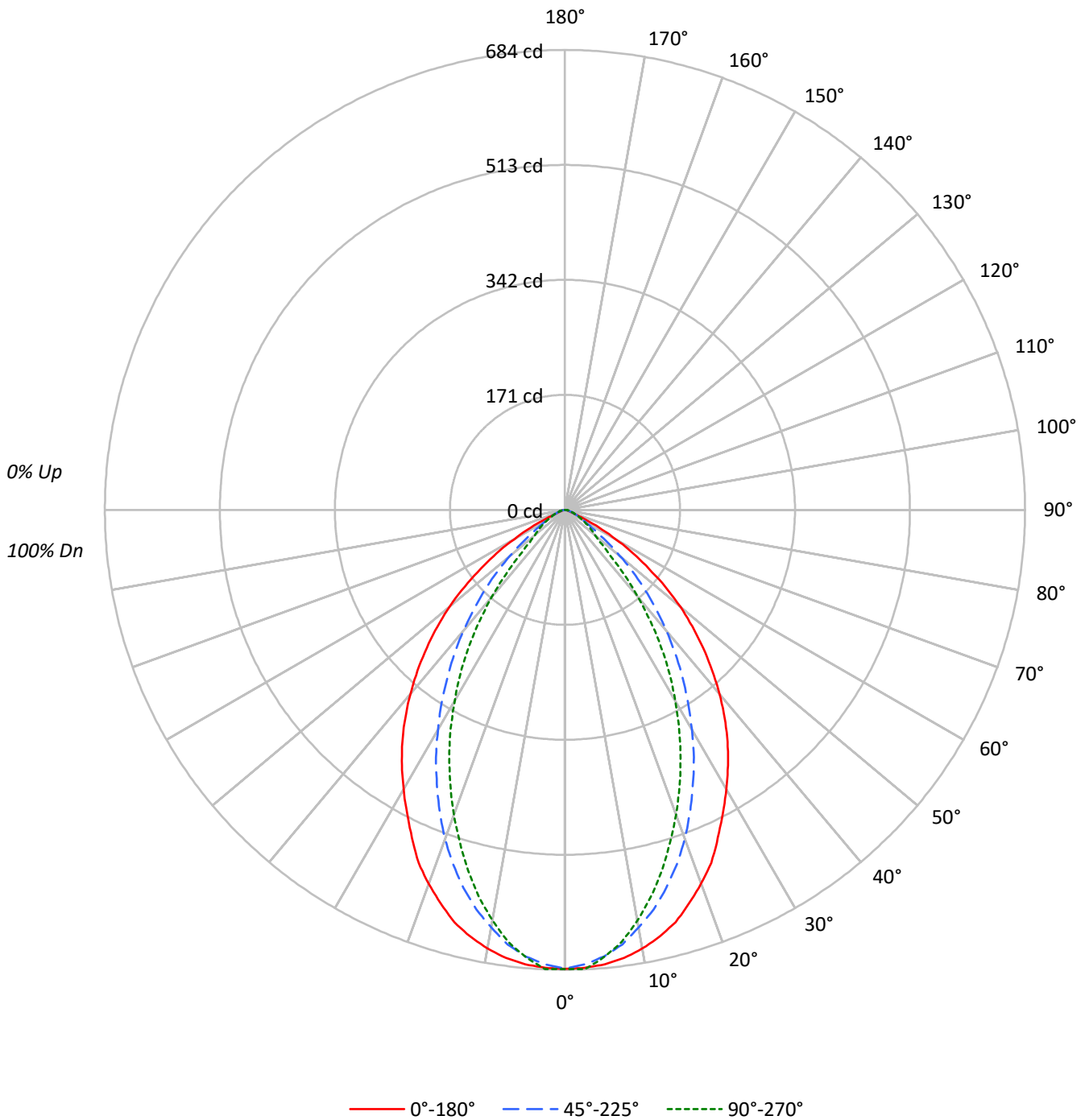
Lumens per Lamp: N/A
Luminaire Lumens: 881.3 lumens
Efficiency: N/A
Efficacy: 25.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 0.85 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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				
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91				
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82				
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66				
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55				
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50				
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	48	46				
9	67	56	49	45	66	56	49	44	55	48	44	54	48	44	53	48	44	42				
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8017	8017	8017
5°	7996	7860	7873
10°	7901	7523	7396
15°	7721	7079	6757
20°	7395	6510	6034
25°	6969	5833	5271
30°	6506	5116	4442
35°	6044	4362	3575
40°	5475	3596	2592
45°	4826	2790	1561
50°	4092	1949	1061
55°	3116	1169	886
60°	2036	744	695
65°	850	558	558
70°	292	398	436
75°	240	286	336
80°	142	216	284
85°	148	148	283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4826 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	7.2
10°-20°	165.0	18.7
20°-30°	211.6	24.0
30°-40°	198.6	22.5
40°-50°	138.5	15.7
50°-60°	71.6	8.1
60°-70°	24.5	2.8
70°-80°	7.0	0.8
80°-90°	1.5	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°	439.6	49.9
0°-40°	638.2	72.4
0°-60°	848.3	96.3
0°-90°	881.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	881.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	678	677	667	670	668	64
15°	635	619	582	563	556	178
25°	538	504	450	420	407	247
35°	422	370	304	265	249	263
45°	291	238	168	116	94	224
55°	152	114	57	44	43	137
65°	31	26	20	19	20	36
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°	682.7	682.7	682.7	682.7	682.7
2.5°	681.6	682.7	676.3	682.7	683.7
5°	678.4	677.4	666.8	670.0	667.9
7.5°	672.1	668.9	652.0	647.8	647.8
10°	662.6	656.2	630.9	623.5	620.3
12.5°	649.9	641.4	608.7	594.9	589.7
15°	635.1	619.2	582.3	563.2	555.8
17.5°	614.0	592.8	552.7	530.5	518.9
20°	591.8	565.4	521.0	494.6	482.9
22.5°	568.5	536.8	486.1	457.6	444.9
25°	537.9	504.1	450.2	419.5	406.8
27.5°	508.3	472.4	415.3	380.4	367.7
30°	479.8	437.5	377.3	343.4	327.6
32.5°	451.2	403.7	341.3	304.3	289.5
35°	421.6	369.9	304.3	265.2	249.4
37.5°	389.9	337.1	269.5	227.2	208.2
40°	357.2	302.2	234.6	187.0	169.1
42.5°	324.4	270.5	199.7	151.1	130.0
45°	290.6	237.8	168.0	116.2	94.0
47.5°	256.8	205.0	137.4	84.5	70.8
50°	224.0	174.4	106.7	62.3	58.1
52.5°	188.1	144.8	80.3	51.8	50.7
55°	152.2	114.1	57.1	44.4	43.3
57.5°	120.5	88.8	41.2	37.0	35.9
60°	86.7	63.4	31.7	30.6	29.6
62.5°	57.1	43.3	25.4	24.3	24.3
65°	30.6	26.4	20.1	19.0	20.1
67.5°	12.7	14.8	14.8	15.9	15.9
70°	8.5	9.5	11.6	12.7	12.7
72.5°	6.3	7.4	8.5	9.5	9.5
75°	5.3	5.3	6.3	7.4	7.4
77.5°	3.2	4.2	4.2	5.3	6.3
80°	2.1	3.2	3.2	4.2	4.2
82.5°	1.1	2.1	2.1	3.2	3.2
85°	1.1	1.1	1.1	1.1	2.1
87.5°	0.0	0.0	0.0	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)