

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: P1059079

Luminaire Tested: S123RDR-S1000D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059079
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-S1000D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

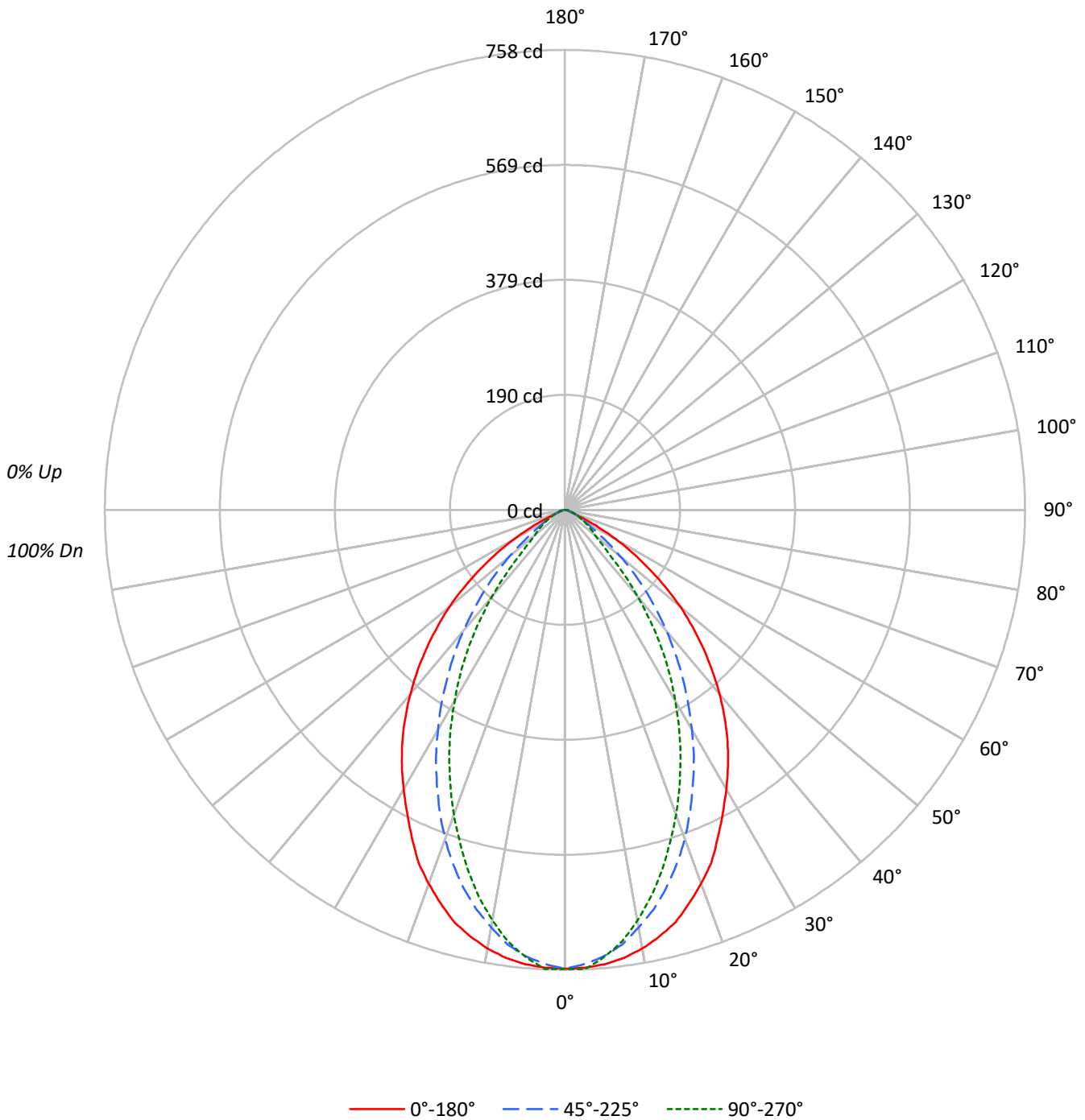
Lumens per Lamp: N/A
Luminaire Lumens: 976.5 lumens
Efficiency: N/A
Efficacy: 27.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 0.85 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	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°	8882	8882	8882
5°	8861	8708	8723
10°	8753	8335	8195
15°	8555	7843	7487
20°	8194	7213	6687
25°	7722	6463	5841
30°	7208	5668	4922
35°	6697	4834	3961
40°	6067	3984	2871
45°	5347	3092	1730
50°	4534	2161	1176
55°	3452	1294	983
60°	2255	824	770
65°	945	617	617
70°	323	443	484
75°	268	318	372
80°	156	237	318
85°	162	162	310

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5347 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	7.2
10°-20°	182.8	18.7
20°-30°	234.4	24.0
30°-40°	220.0	22.5
40°-50°	153.5	15.7
50°-60°	79.4	8.1
60°-70°	27.1	2.8
70°-80°	7.8	0.8
80°-90°	1.6	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°	487.1	49.9
0°-40°	707.1	72.4
0°-60°	940.0	96.3
0°-90°	976.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	976.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	752	750	739	742	740	71
15°	704	686	645	624	616	197
25°	596	558	499	465	451	274
35°	467	410	337	294	276	291
45°	322	263	186	129	104	248
55°	169	126	63	49	48	152
65°	34	29	22	21	22	40
75°	6	6	7	8	8	6
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°	756.4	756.4	756.4	756.4	756.4
2.5°	755.2	756.4	749.4	756.4	757.6
5°	751.7	750.5	738.8	742.3	740.0
7.5°	744.7	741.2	722.4	717.7	717.7
10°	734.1	727.1	699.0	690.8	687.3
12.5°	720.1	710.7	674.4	659.2	653.4
15°	703.7	686.1	645.2	624.1	615.9
17.5°	680.3	656.9	612.4	587.8	574.9
20°	655.7	626.4	577.2	548.0	535.1
22.5°	629.9	594.8	538.6	507.0	492.9
25°	596.0	558.5	498.8	464.8	450.8
27.5°	563.2	523.4	460.2	421.5	407.5
30°	531.6	484.7	418.0	380.5	363.0
32.5°	500.0	447.3	378.2	337.2	320.8
35°	467.2	409.8	337.2	293.9	276.3
37.5°	432.1	373.5	298.6	251.7	230.7
40°	395.8	334.9	259.9	207.2	187.3
42.5°	359.5	299.7	221.3	167.4	144.0
45°	322.0	263.4	186.2	128.8	104.2
47.5°	284.5	227.2	152.2	93.7	78.4
50°	248.2	193.2	118.3	69.1	64.4
52.5°	208.4	160.4	89.0	57.4	56.2
55°	168.6	126.5	63.2	49.2	48.0
57.5°	133.5	98.4	45.7	41.0	39.8
60°	96.0	70.3	35.1	34.0	32.8
62.5°	63.2	48.0	28.1	26.9	26.9
65°	34.0	29.3	22.2	21.1	22.2
67.5°	14.1	16.4	16.4	17.6	17.6
70°	9.4	10.5	12.9	14.1	14.1
72.5°	7.0	8.2	9.4	10.5	10.5
75°	5.9	5.9	7.0	8.2	8.2
77.5°	3.5	4.7	4.7	5.9	7.0
80°	2.3	3.5	3.5	4.7	4.7
82.5°	1.2	2.3	2.3	3.5	3.5
85°	1.2	1.2	1.2	1.2	2.3
87.5°	0.0	0.0	0.0	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)