

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: P1059071

Luminaire Tested: S123RDR-S1000D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S1000D940-X4F0-XX-UDD-SVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

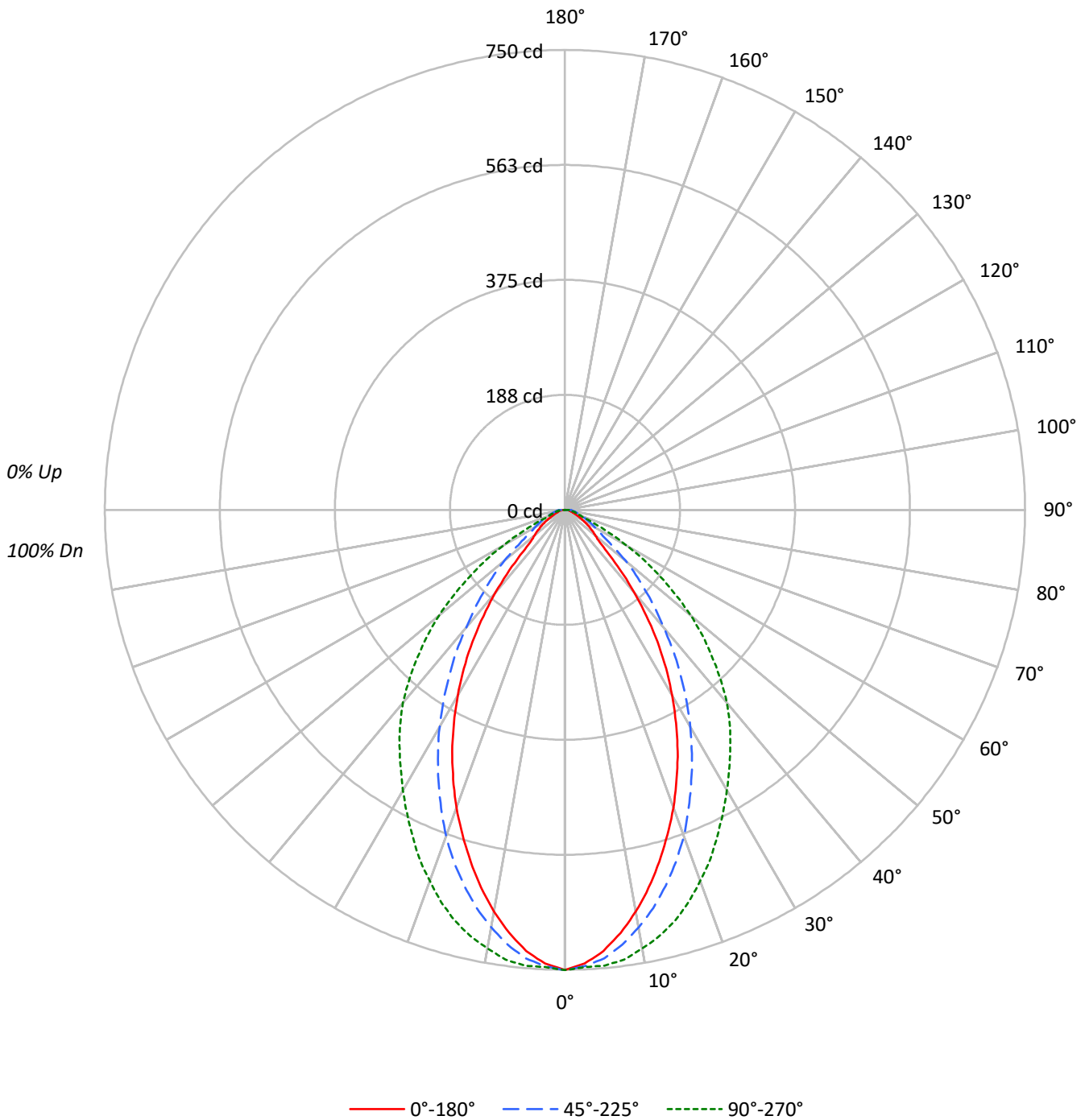
Lumens per Lamp: N/A
Luminaire Lumens: 1005.1 lumens
Efficiency: N/A
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	105	102	109	106	103	100	101	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	91	81	74	69	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	61	69	64	60	68	63	59	58			58	
6	79	68	61	56	78	67	60	55	66	60	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	56	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	50	43	39	49	43	39	48	43	39	37			37	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8813	8813	8813
5°	8510	8652	8794
10°	7929	8243	8661
15°	7219	7711	8431
20°	6462	7078	8050
25°	5635	6316	7608
30°	4739	5542	7161
35°	3769	4696	6737
40°	2687	3829	6297
45°	1601	3075	5640
50°	1180	2342	4883
55°	987	1593	3880
60°	798	1313	2727
65°	639	1125	1461
70°	525	978	903
75°	499	944	844
80°	521	1035	818
85°	741	1482	1037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5640 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	6.9
10°-20°	179.1	17.8
20°-30°	228.4	22.7
30°-40°	214.9	21.4
40°-50°	154.4	15.4
50°-60°	88.5	8.8
60°-70°	40.5	4.0
70°-80°	20.3	2.0
80°-90°	9.9	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°	476.5	47.4
0°-40°	691.4	68.8
0°-60°	934.3	93.0
0°-90°	1005.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1005.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	722	736	734	740	746	67
15°	594	615	634	668	694	166
25°	435	455	488	540	587	199
35°	263	282	328	402	470	163
45°	96	117	185	273	340	81
55°	48	49	78	144	190	43
65°	23	32	40	45	53	23
75°	11	22	21	19	19	12
85°	6	11	11	10	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.5	750.5	750.5	750.5	750.5
2.5°	740.6	751.6	745.0	745.0	746.1
5°	722.0	736.2	734.0	739.5	746.1
7.5°	695.7	711.0	715.4	728.6	739.5
10°	665.0	682.6	691.3	712.1	726.4
12.5°	631.1	650.8	665.0	691.3	712.1
15°	593.8	614.6	634.3	668.3	693.5
17.5°	555.5	576.3	601.5	640.9	670.5
20°	517.1	537.9	566.4	608.1	644.2
22.5°	475.5	496.3	527.0	574.1	617.9
25°	434.9	454.7	487.5	540.1	587.2
27.5°	392.2	411.9	448.1	505.1	557.7
30°	349.5	369.2	408.7	470.0	528.1
32.5°	306.8	325.4	368.1	436.0	498.5
35°	262.9	281.6	327.6	402.1	470.0
37.5°	218.0	236.6	290.3	371.4	441.5
40°	175.3	196.1	249.8	340.7	410.8
42.5°	133.7	155.6	216.9	307.9	375.8
45°	96.4	117.2	185.2	272.8	339.6
47.5°	73.4	84.4	156.7	237.7	304.6
50°	64.6	65.7	128.2	206.0	267.3
52.5°	55.9	57.0	99.7	175.3	227.9
55°	48.2	49.3	77.8	143.5	189.5
57.5°	40.5	42.7	63.5	113.9	152.3
60°	34.0	38.3	55.9	86.6	116.1
62.5°	27.4	35.1	48.2	63.5	83.3
65°	23.0	31.8	40.5	44.9	52.6
67.5°	18.6	29.6	34.0	31.8	31.8
70°	15.3	26.3	28.5	26.3	26.3
72.5°	13.1	25.2	24.1	21.9	21.9
75°	11.0	21.9	20.8	18.6	18.6
77.5°	9.9	18.6	17.5	16.4	15.3
80°	7.7	15.3	15.3	14.2	12.1
82.5°	6.6	13.1	13.1	12.1	9.9
85°	5.5	11.0	11.0	9.9	7.7
87.5°	4.4	9.9	9.9	8.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)