

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: P1058018

Luminaire Tested: S122RDR-S485D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S485D940-X4F0-XX-UDD-SVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

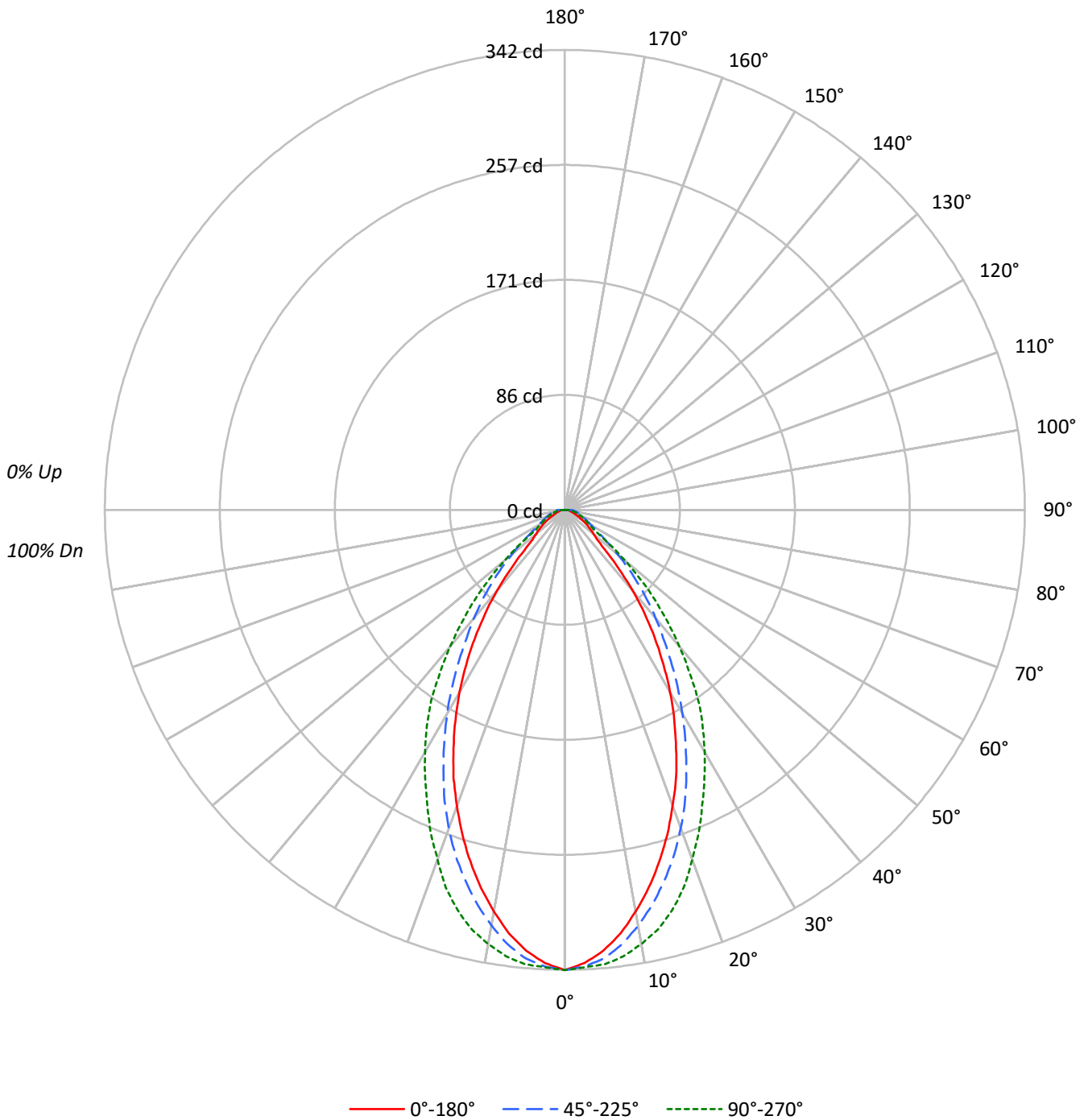
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 413.0 lumens
Efficiency: N/A
Efficacy: 21.1 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																																				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80																																				
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																																				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65																																				
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59																																				
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54																																				
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50																																				
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46																																				
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42																																				
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39																																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6316	6316	6316
5°	6096	6201	6283
10°	5681	5882	6142
15°	5177	5454	5888
20°	4601	4948	5432
25°	3986	4347	4925
30°	3337	3729	4428
35°	2631	3088	3899
40°	1886	2524	3194
45°	1104	1994	2471
50°	798	1450	1668
55°	669	1036	875
60°	535	838	745
65°	441	747	690
70°	372	718	647
75°	364	763	627
80°	404	935	669
85°	677	1461	932

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2471 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.4	7.6
10°-20°	80.4	19.5
20°-30°	98.8	23.9
30°-40°	87.3	21.1
40°-50°	55.7	13.5
50°-60°	27.2	6.6
60°-70°	16.2	3.9
70°-80°	10.3	2.5
80°-90°	5.7	1.4
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°	210.5	51.0
0°-40°	297.8	72.1
0°-60°	380.7	92.2
0°-90°	413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	342	342	342	342	342	
5°	329	336	335	336	339	31
15°	271	278	286	298	308	76
25°	196	203	214	227	242	90
35°	117	123	137	156	173	73
45°	42	54	76	86	95	36
55°	21	28	32	30	27	19
65°	10	19	17	16	16	10
75°	5	11	11	10	9	6
85°	3	6	7	6	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	342.3	342.3	342.3	342.3	342.3
2.5°	337.3	343.6	339.8	339.8	340.4
5°	329.1	336.0	334.8	336.0	339.2
7.5°	317.7	324.6	325.9	331.0	334.8
10°	303.2	310.1	313.9	322.1	327.8
12.5°	288.0	295.0	300.6	311.4	319.6
15°	271.0	278.5	285.5	298.1	308.2
17.5°	253.3	260.9	269.7	282.3	294.3
20°	234.3	241.3	252.0	264.0	276.6
22.5°	216.0	222.3	233.7	245.1	260.2
25°	195.8	202.7	213.5	226.7	241.9
27.5°	176.2	183.2	193.9	209.1	224.9
30°	156.6	163.0	175.0	190.7	207.8
32.5°	136.4	142.7	156.0	173.1	190.7
35°	116.8	123.2	137.1	156.0	173.1
37.5°	97.3	104.2	120.0	137.7	152.2
40°	78.3	86.5	104.8	120.0	132.6
42.5°	59.4	70.7	90.3	103.0	113.1
45°	42.3	54.3	76.4	85.9	94.7
47.5°	32.2	41.7	63.2	70.1	75.8
50°	27.8	34.1	50.5	55.6	58.1
52.5°	24.0	30.3	40.4	42.3	41.1
55°	20.8	27.8	32.2	30.3	27.2
57.5°	17.7	25.9	26.5	22.7	23.4
60°	14.5	23.4	22.7	19.6	20.2
62.5°	12.0	21.5	19.6	17.7	17.7
65°	10.1	18.9	17.1	15.8	15.8
67.5°	8.2	17.1	15.2	13.9	13.9
70°	6.9	15.2	13.3	12.0	12.0
72.5°	6.3	13.3	12.0	10.7	10.7
75°	5.1	11.4	10.7	9.5	8.8
77.5°	4.4	9.5	9.5	8.8	7.6
80°	3.8	8.2	8.8	7.6	6.3
82.5°	3.8	7.6	7.6	6.9	5.1
85°	3.2	6.3	6.9	6.3	4.4
87.5°	1.9	5.7	5.7	5.1	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)