

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: P1057991

Luminaire Tested: S122RDR-S485D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057991
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-S485D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

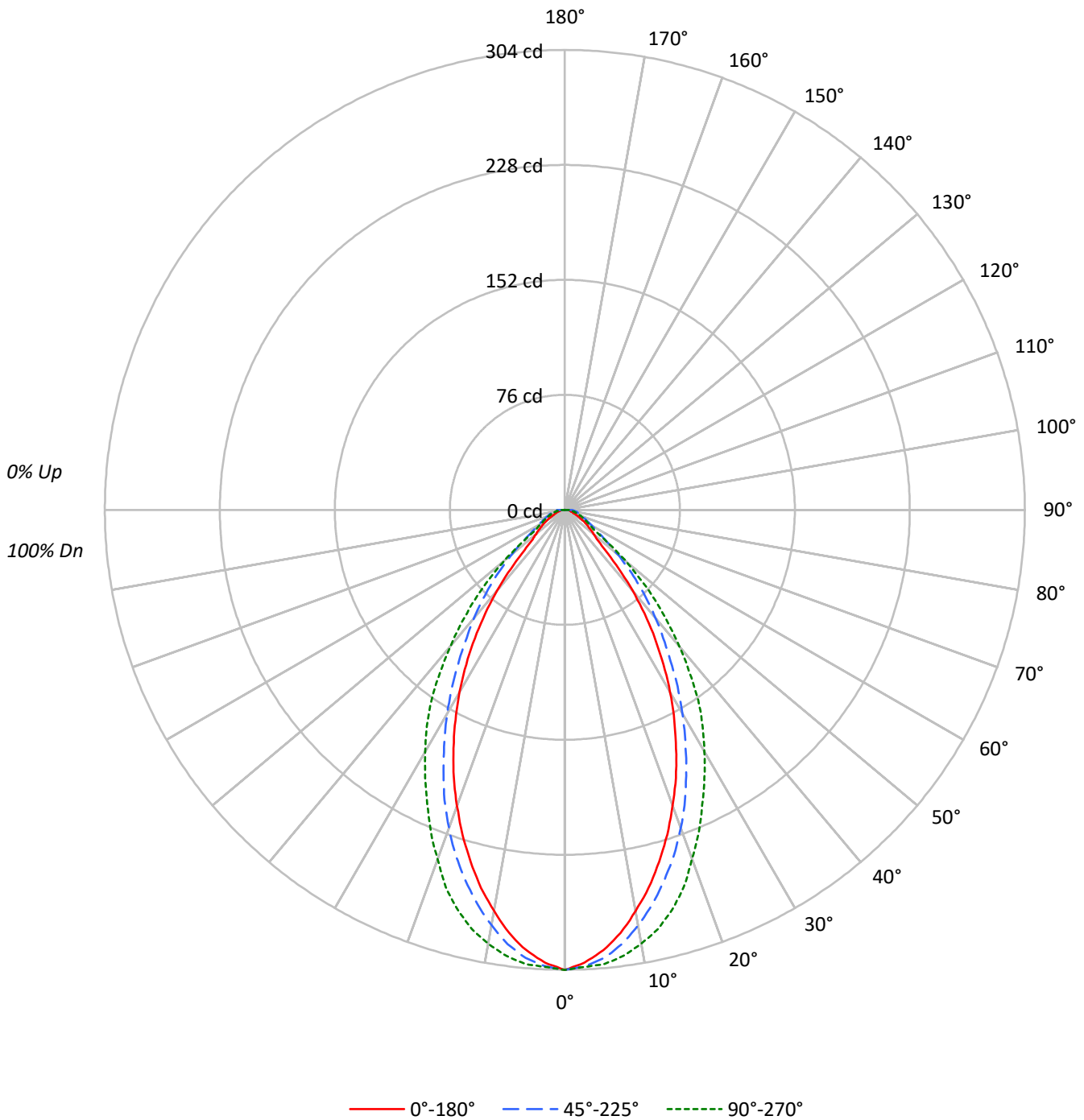
Lumens per Lamp: N/A
Luminaire Lumens: 366.9 lumens
Efficiency: N/A
Efficacy: 18.7 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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°	5611	5611	5611
5°	5414	5509	5581
10°	5046	5226	5456
15°	4598	4845	5231
20°	4088	4397	4827
25°	3541	3862	4375
30°	2966	3311	3933
35°	2338	2744	3462
40°	1677	2243	2838
45°	981	1772	2197
50°	709	1289	1481
55°	595	920	775
60°	476	745	664
65°	393	664	611
70°	334	637	577
75°	321	677	563
80°	361	839	595
85°	593	1313	826

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2197 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	7.6
10°-20°	71.4	19.5
20°-30°	87.7	23.9
30°-40°	77.6	21.1
40°-50°	49.5	13.5
50°-60°	24.2	6.6
60°-70°	14.4	3.9
70°-80°	9.2	2.5
80°-90°	5.1	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°	187.0	51.0
0°-40°	264.6	72.1
0°-60°	338.2	92.2
0°-90°	366.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	366.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	292	298	297	298	301	27
15°	241	248	254	265	274	67
25°	174	180	190	201	215	80
35°	104	109	122	139	154	64
45°	38	48	68	76	84	32
55°	18	25	29	27	24	17
65°	9	17	15	14	14	9
75°	4	10	10	8	8	5
85°	3	6	6	6	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	304.1	304.1	304.1	304.1	304.1
2.5°	299.6	305.2	301.9	301.9	302.4
5°	292.3	298.5	297.4	298.5	301.3
7.5°	282.2	288.4	289.5	294.0	297.4
10°	269.3	275.5	278.9	286.2	291.2
12.5°	255.9	262.0	267.1	276.6	283.9
15°	240.7	247.5	253.6	264.8	273.8
17.5°	225.0	231.7	239.6	250.8	261.5
20°	208.2	214.3	223.9	234.5	245.8
22.5°	191.9	197.5	207.6	217.7	231.2
25°	173.9	180.1	189.7	201.4	214.9
27.5°	156.6	162.7	172.3	185.7	199.8
30°	139.2	144.8	155.4	169.5	184.6
32.5°	121.2	126.8	138.6	153.7	169.5
35°	103.8	109.4	121.8	138.6	153.7
37.5°	86.4	92.6	106.6	122.3	135.2
40°	69.6	76.9	93.1	106.6	117.8
42.5°	52.7	62.8	80.2	91.5	100.4
45°	37.6	48.3	67.9	76.3	84.2
47.5°	28.6	37.0	56.1	62.3	67.3
50°	24.7	30.3	44.9	49.4	51.6
52.5°	21.3	26.9	35.9	37.6	36.5
55°	18.5	24.7	28.6	26.9	24.1
57.5°	15.7	23.0	23.6	20.2	20.8
60°	12.9	20.8	20.2	17.4	18.0
62.5°	10.7	19.1	17.4	15.7	15.7
65°	9.0	16.8	15.2	14.0	14.0
67.5°	7.3	15.2	13.5	12.3	12.3
70°	6.2	13.5	11.8	10.7	10.7
72.5°	5.6	11.8	10.7	9.5	9.5
75°	4.5	10.1	9.5	8.4	7.9
77.5°	3.9	8.4	8.4	7.9	6.7
80°	3.4	7.3	7.9	6.7	5.6
82.5°	3.4	6.7	6.7	6.2	4.5
85°	2.8	5.6	6.2	5.6	3.9
87.5°	1.7	5.1	5.1	4.5	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)