

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: P1058030

Luminaire Tested: S122RDR-S485D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S485D950-X4F0-XX-UDD-WVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

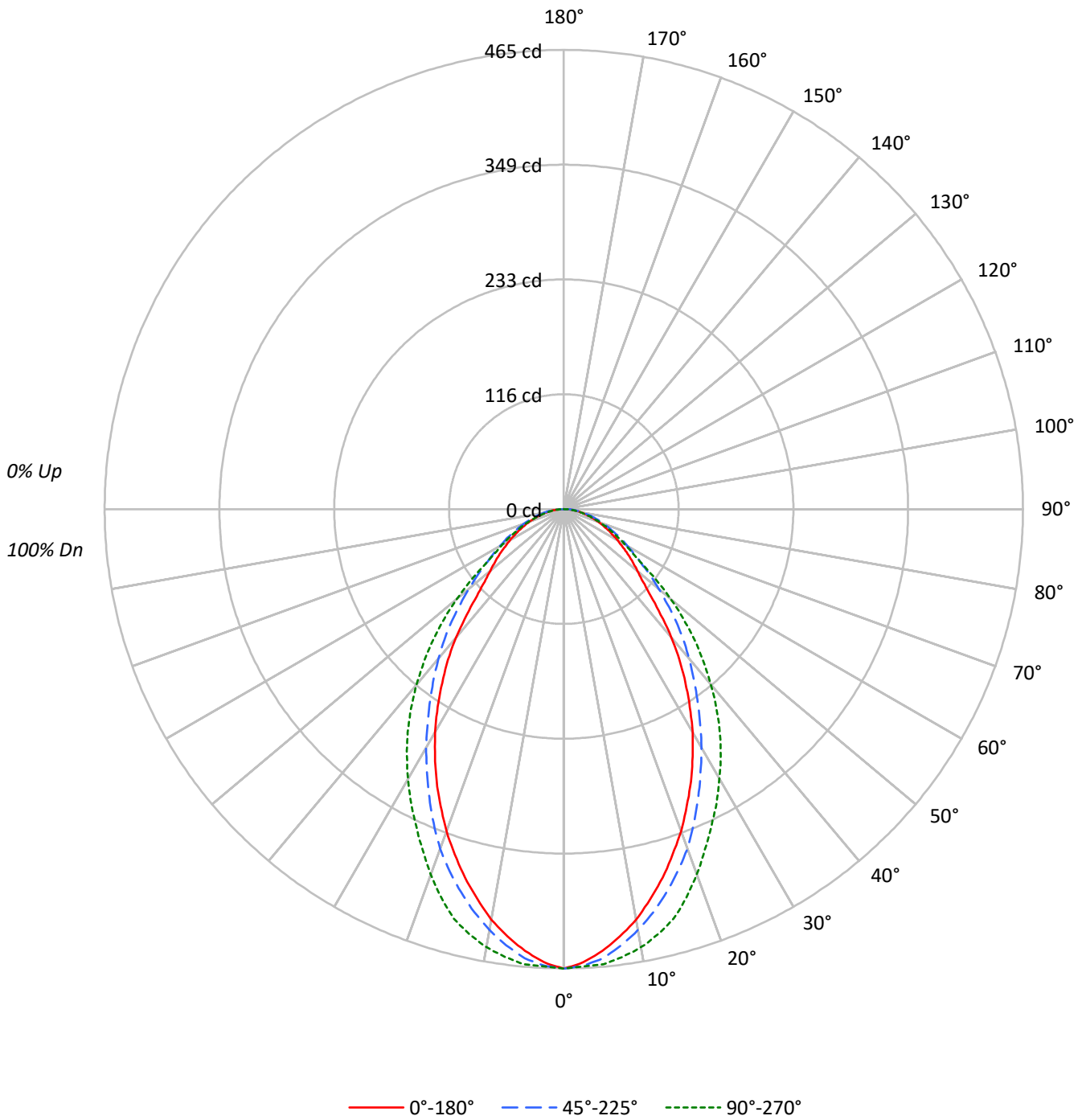
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 757.7 lumens
Efficiency: N/A
Efficacy: 38.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
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

TEST NUMBER: P1058030
CATALOG NUMBER: S122RDR-S485D950-X4F0-XX-UDD-WVL-S

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	79	84	80	78	76				76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59				59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8586	8586	8586
5°	8319	8456	8569
10°	7909	8111	8441
15°	7380	7676	8205
20°	6816	7187	7731
25°	6202	6560	7205
30°	5555	5943	6720
35°	4839	5309	6208
40°	4083	4750	5581
45°	3244	4194	4883
50°	2793	3606	4053
55°	2542	3085	3108
60°	2318	2742	2642
65°	2122	2476	2332
70°	1969	2293	2077
75°	1832	2167	1832
80°	1721	2083	1647
85°	1715	2138	1440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4883 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	5.7
10°-20°	113.6	15.0
20°-30°	149.4	19.7
30°-40°	150.3	19.8
40°-50°	121.8	16.1
50°-60°	83.9	11.1
60°-70°	54.9	7.2
70°-80°	30.6	4.0
80°-90°	10.4	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°	305.9	40.4
0°-40°	456.2	60.2
0°-60°	661.9	87.4
0°-90°	757.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	757.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	449	458	456	459	463	42
15°	386	396	402	417	430	108
25°	305	313	322	336	354	140
35°	215	225	236	257	276	134
45°	124	138	161	175	187	98
55°	79	88	96	98	97	71
65°	49	58	57	54	53	49
75°	26	32	30	27	26	27
85°	8	11	10	9	7	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	465.3	465.3	465.3	465.3	465.3
2.5°	459.3	467.4	462.6	462.6	463.3
5°	449.1	457.9	456.5	458.6	462.6
7.5°	436.3	445.7	445.7	451.8	457.2
10°	422.1	431.6	432.9	442.4	450.5
12.5°	404.5	414.0	418.1	430.2	441.0
15°	386.3	395.8	401.8	416.7	429.5
17.5°	366.7	376.2	384.3	399.8	412.6
20°	347.1	355.9	366.0	379.6	393.7
22.5°	325.5	335.0	344.4	357.3	373.5
25°	304.6	312.7	322.2	336.3	353.9
27.5°	282.3	291.1	299.9	316.7	335.0
30°	260.7	269.5	278.9	296.5	315.4
32.5°	237.7	247.2	256.6	276.2	295.8
35°	214.8	224.9	235.7	256.6	275.6
37.5°	192.5	203.3	216.1	237.7	253.9
40°	169.5	181.0	197.2	216.1	231.7
42.5°	145.2	159.4	179.0	195.2	209.4
45°	124.3	138.5	160.7	174.9	187.1
47.5°	108.7	120.2	141.8	154.0	164.1
50°	97.3	106.0	125.6	134.4	141.2
52.5°	87.8	96.6	110.1	116.2	118.2
55°	79.0	87.8	95.9	97.9	96.6
57.5°	70.2	79.7	84.4	82.4	82.4
60°	62.8	72.9	74.3	71.6	71.6
62.5°	55.4	65.5	65.5	62.1	62.1
65°	48.6	58.1	56.7	54.0	53.4
67.5°	42.5	51.3	49.3	46.6	45.9
70°	36.5	44.6	42.5	39.2	38.5
72.5°	31.1	38.5	35.8	33.1	31.7
75°	25.7	31.7	30.4	27.0	25.7
77.5°	20.9	25.7	24.3	21.6	20.3
80°	16.2	20.3	19.6	16.9	15.5
82.5°	12.2	15.5	14.9	12.8	10.8
85°	8.1	10.8	10.1	8.8	6.8
87.5°	4.1	7.4	6.8	6.1	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)