

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: P1058189

Luminaire Tested: S122RDR-S865D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058189
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-S865D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

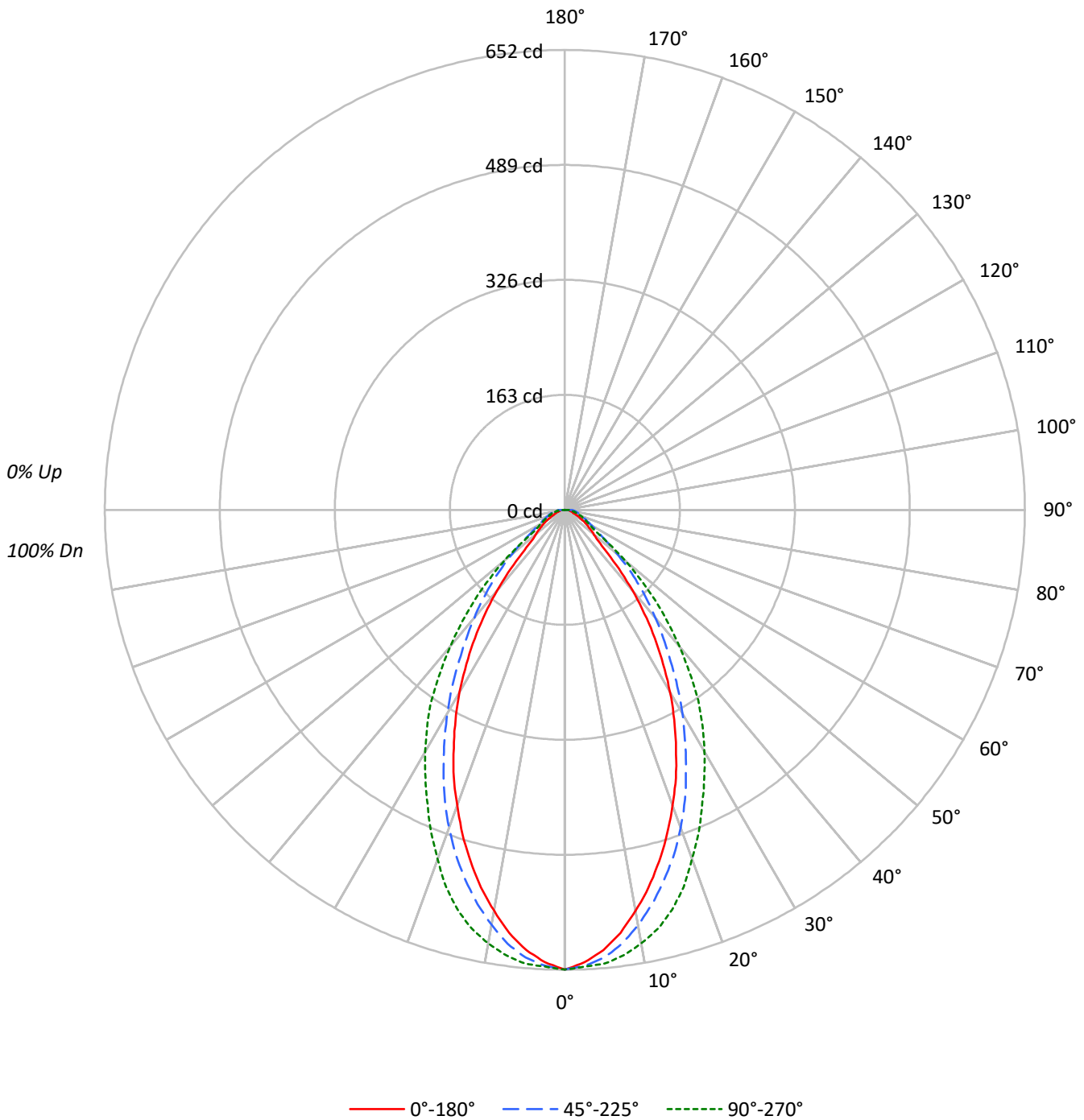
Lumens per Lamp: N/A
Luminaire Lumens: 786.2 lumens
Efficiency: N/A
Efficacy: 22.5 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1058189

CATALOG NUMBER: S122RDR-S865D950-X4F0-XX-UDD-SVL-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	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°	12025	12025	12025
5°	11605	11805	11960
10°	10815	11197	11694
15°	9855	10383	11210
20°	8760	9422	10343
25°	7590	8274	9376
30°	6354	7097	8429
35°	5012	5877	7422
40°	3592	4808	6082
45°	2103	3797	4708
50°	1519	2762	3175
55°	1277	1972	1663
60°	1022	1598	1421
65°	838	1419	1314
70°	712	1365	1230
75°	684	1454	1198
80°	765	1785	1275
85°	1270	2795	1778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4708 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	7.6
10°-20°	153.0	19.5
20°-30°	188.0	23.9
30°-40°	166.2	21.1
40°-50°	106.1	13.5
50°-60°	51.8	6.6
60°-70°	30.9	3.9
70°-80°	19.7	2.5
80°-90°	10.8	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°	400.8	51.0
0°-40°	567.0	72.1
0°-60°	724.9	92.2
0°-90°	786.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	786.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	626	640	637	640	646	58
15°	516	530	544	568	587	144
25°	373	386	406	432	460	171
35°	222	234	261	297	330	138
45°	81	103	146	164	180	68
55°	40	53	61	58	52	36
65°	19	36	32	30	30	19
75°	10	22	20	18	17	11
85°	6	12	13	12	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	651.7	651.7	651.7	651.7	651.7
2.5°	642.1	654.1	646.9	646.9	648.1
5°	626.5	639.7	637.3	639.7	645.7
7.5°	604.8	618.1	620.5	630.1	637.3
10°	577.2	590.4	597.6	613.3	624.1
12.5°	548.3	561.6	572.4	592.8	608.5
15°	515.9	530.3	543.5	567.6	586.8
17.5°	482.2	496.6	513.5	537.5	560.4
20°	446.1	459.3	479.8	502.6	526.7
22.5°	411.2	423.3	444.9	466.6	495.4
25°	372.8	386.0	406.4	431.7	460.5
27.5°	335.5	348.7	369.2	398.0	428.1
30°	298.2	310.2	333.1	363.1	395.6
32.5°	259.7	271.8	297.0	329.5	363.1
35°	222.5	234.5	260.9	297.0	329.5
37.5°	185.2	198.4	228.5	262.1	289.8
40°	149.1	164.7	199.6	228.5	252.5
42.5°	113.0	134.7	172.0	196.0	215.2
45°	80.6	103.4	145.5	163.5	180.4
47.5°	61.3	79.4	120.2	133.5	144.3
50°	52.9	64.9	96.2	105.8	110.6
52.5°	45.7	57.7	77.0	80.6	78.2
55°	39.7	52.9	61.3	57.7	51.7
57.5°	33.7	49.3	50.5	43.3	44.5
60°	27.7	44.5	43.3	37.3	38.5
62.5°	22.8	40.9	37.3	33.7	33.7
65°	19.2	36.1	32.5	30.1	30.1
67.5°	15.6	32.5	28.9	26.5	26.5
70°	13.2	28.9	25.3	22.8	22.8
72.5°	12.0	25.3	22.8	20.4	20.4
75°	9.6	21.6	20.4	18.0	16.8
77.5°	8.4	18.0	18.0	16.8	14.4
80°	7.2	15.6	16.8	14.4	12.0
82.5°	7.2	14.4	14.4	13.2	9.6
85°	6.0	12.0	13.2	12.0	8.4
87.5°	3.6	10.8	10.8	9.6	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)