

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: P1058150

Luminaire Tested: S122RDR-S865D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-60)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S865D927-X4F0-XX-UDD-BVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

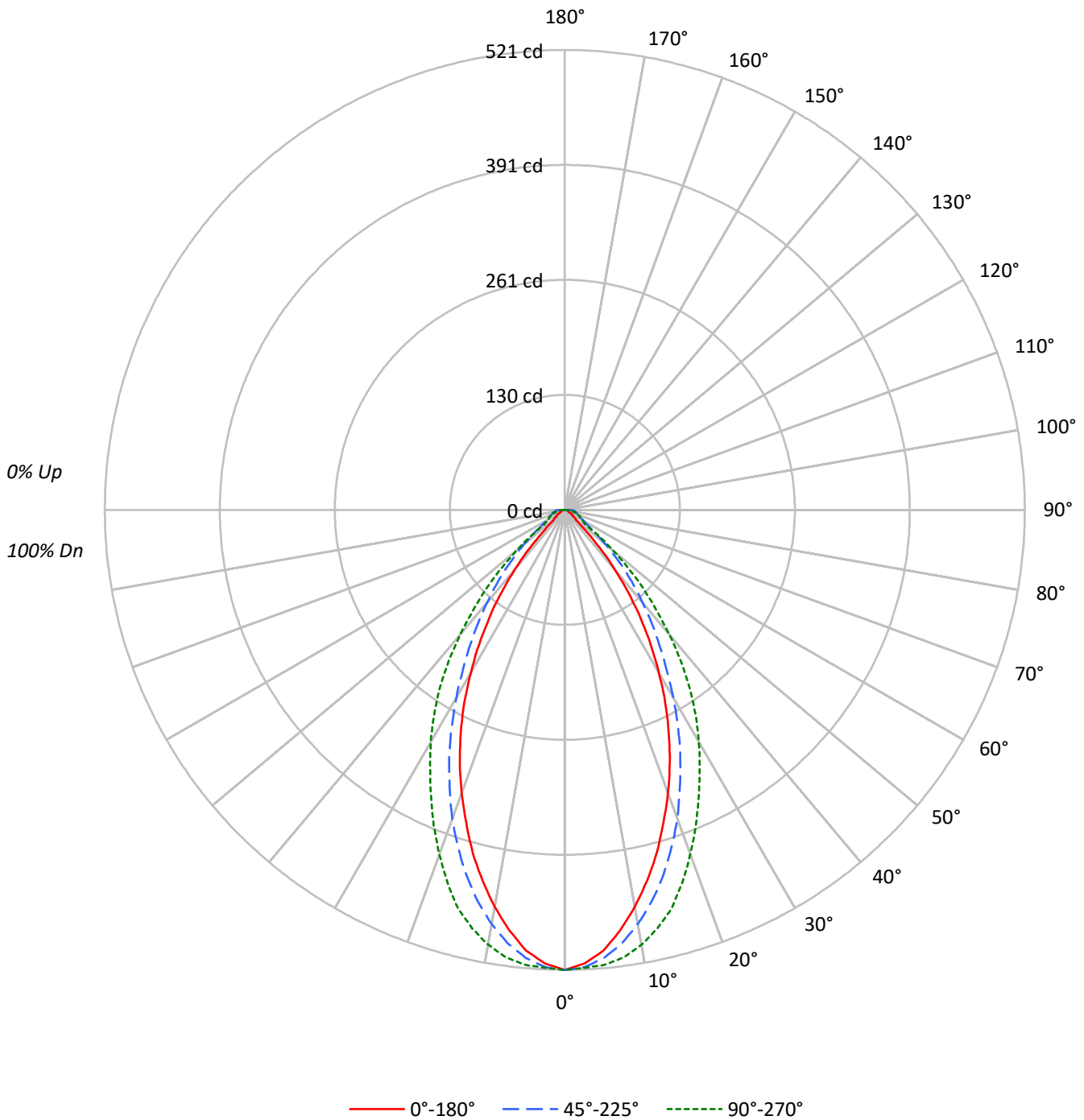
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 562.0 lumens
Efficiency: N/A
Efficacy: 16.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.95 / 0.9
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

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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				
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74				
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67				
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61				
6	82	72	65	60	80	71	64	59	69	63	59	68	63	59	66	62	58	56				
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52				
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48				
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45				
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9619	9619	9619
5°	9286	9434	9582
10°	8552	8926	9374
15°	7689	8203	8929
20°	6706	7315	8157
25°	5672	6303	7299
30°	4532	5235	6469
35°	3352	4206	5557
40°	2117	3295	4427
45°	835	2476	3257
50°	431	1662	2007
55°	354	1094	901
60°	258	886	812
65°	218	830	830
70°	216	863	809
75°	285	998	856
80°	425	1275	956
85°	635	2117	1270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 87.5°
 Luminance: 4230 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	8.5
10°-20°	120.4	21.4
20°-30°	143.1	25.5
30°-40°	119.0	21.2
40°-50°	66.5	11.8
50°-60°	26.9	4.8
60°-70°	17.2	3.1
70°-80°	12.9	2.3
80°-90°	8.2	1.5
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°	311.2	55.4
0°-40°	430.3	76.6
0°-60°	523.7	93.2
0°-90°	562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	521	521	521	521	521	
5°	501	510	509	513	517	46
15°	402	414	429	451	467	112
25°	279	290	310	334	358	127
35°	149	163	187	218	247	92
45°	32	54	95	111	125	30
55°	11	23	34	33	28	10
65°	5	20	19	18	19	5
75°	4	14	14	13	12	4
85°	3	9	10	9	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	521.3	521.3	521.3	521.3	521.3
2.5°	514.3	522.3	518.3	518.3	519.3
5°	501.3	510.3	509.3	513.3	517.3
7.5°	480.4	490.3	495.3	504.3	511.3
10°	456.4	467.4	476.4	490.3	500.3
12.5°	430.4	441.4	454.4	472.4	485.3
15°	402.5	414.4	429.4	451.4	467.4
17.5°	371.5	384.5	401.5	425.4	442.4
20°	341.5	354.5	372.5	396.5	415.4
22.5°	310.6	321.6	340.5	364.5	387.5
25°	278.6	289.6	309.6	333.6	358.5
27.5°	246.7	257.7	277.6	302.6	330.6
30°	212.7	224.7	245.7	273.6	303.6
32.5°	180.8	192.7	214.7	245.7	275.6
35°	148.8	162.8	186.7	217.7	246.7
37.5°	117.8	133.8	160.8	189.7	215.7
40°	87.9	104.9	136.8	161.8	183.8
42.5°	57.9	77.9	114.8	135.8	152.8
45°	32.0	53.9	94.9	110.9	124.8
47.5°	18.0	35.0	74.9	87.9	95.9
50°	15.0	26.0	57.9	66.9	69.9
52.5°	12.0	24.0	43.9	48.9	46.9
55°	11.0	23.0	34.0	33.0	28.0
57.5°	9.0	23.0	27.0	24.0	24.0
60°	7.0	22.0	24.0	21.0	22.0
62.5°	6.0	21.0	22.0	20.0	20.0
65°	5.0	20.0	19.0	18.0	19.0
67.5°	4.0	18.0	18.0	17.0	17.0
70°	4.0	17.0	16.0	15.0	15.0
72.5°	4.0	15.0	15.0	14.0	14.0
75°	4.0	14.0	14.0	13.0	12.0
77.5°	4.0	12.0	13.0	12.0	11.0
80°	4.0	11.0	12.0	11.0	9.0
82.5°	4.0	10.0	11.0	10.0	8.0
85°	3.0	9.0	10.0	9.0	6.0
87.5°	3.0	9.0	10.0	8.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)