

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: P1058170

Luminaire Tested: S122RDR-S865D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S865D935-X4F0-XX-UDD-SVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

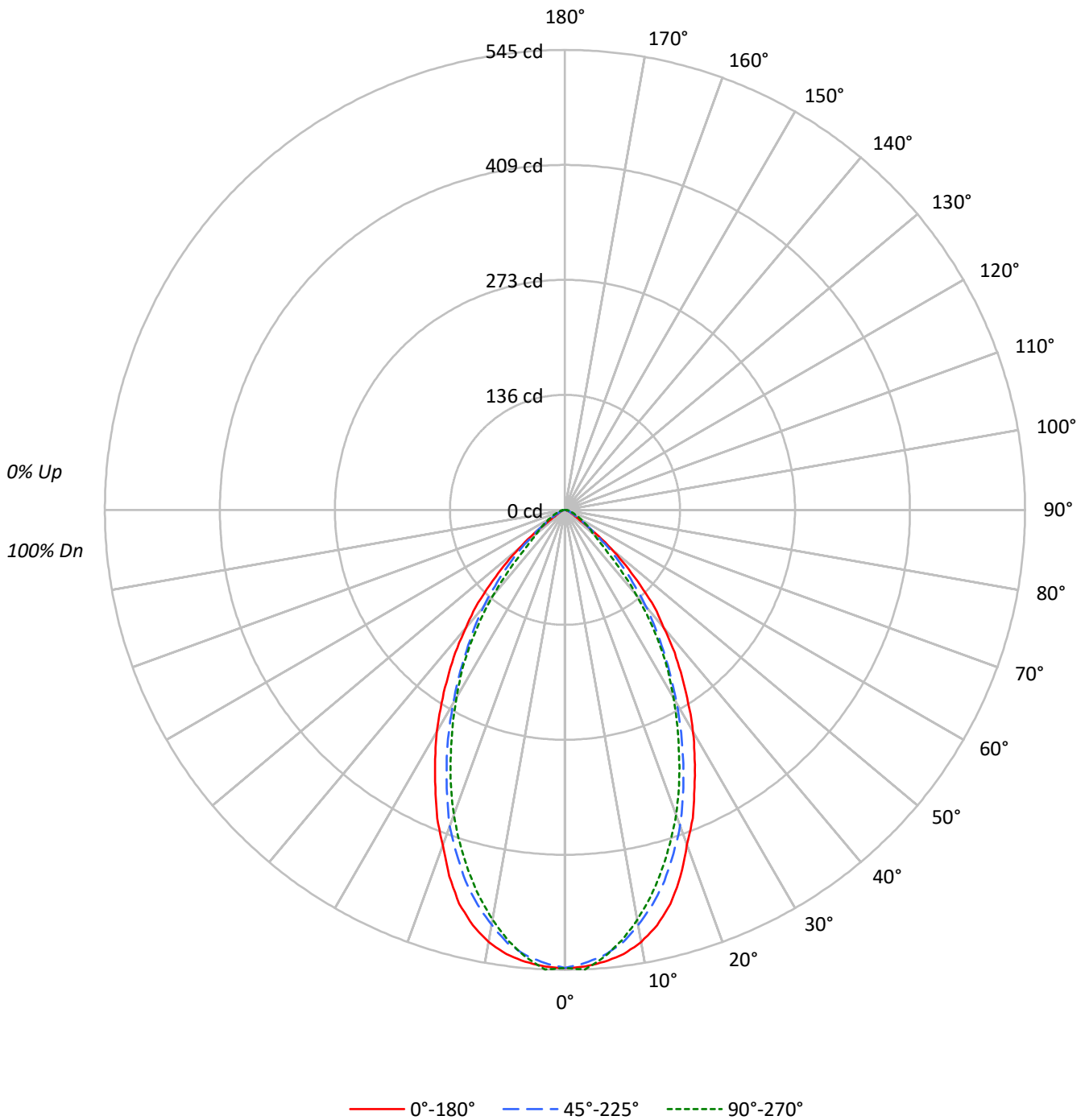
Lumens per Lamp: N/A
Luminaire Lumens: 584.0 lumens
Efficiency: N/A
Efficacy: 16.7 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10020	10020	10020
5°	9958	9817	9858
10°	9747	9361	9239
15°	9235	8696	8448
20°	8300	7831	7556
25°	7393	6751	6509
30°	6467	5636	5474
35°	5445	4566	4420
40°	4386	3604	3184
45°	3280	2602	1895
50°	2053	1679	1246
55°	698	907	1010
60°	399	561	801
65°	284	380	616
70°	232	291	469
75°	157	235	385
80°	117	234	351
85°	0	0	233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3280 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	8.6
10°-20°	128.1	21.9
20°-30°	154.3	26.4
30°-40°	131.8	22.6
40°-50°	77.2	13.2
50°-60°	28.0	4.8
60°-70°	9.9	1.7
70°-80°	4.0	0.7
80°-90°	0.7	0.1
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°	332.4	56.9
0°-40°	464.2	79.5
0°-60°	569.4	97.5
0°-90°	584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	538	539	530	532	532	51
15°	483	476	455	446	442	134
25°	363	348	332	326	320	167
35°	242	223	203	200	196	151
45°	126	113	100	84	73	97
55°	22	30	28	29	31	27
65°	6	8	9	12	14	7
75°	2	3	3	4	5	3
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	543.0	543.0	543.0	543.0	543.0
2.5°	541.9	543.0	537.6	543.0	545.2
5°	537.6	538.7	530.0	532.2	532.2
7.5°	531.1	530.0	518.1	515.9	514.8
10°	520.2	517.0	499.6	496.4	493.1
12.5°	504.0	497.5	479.0	473.6	469.3
15°	483.4	475.8	455.2	446.5	442.2
17.5°	455.2	446.5	427.0	418.4	414.0
20°	422.7	414.0	398.8	389.1	384.8
22.5°	395.6	381.5	365.2	358.7	353.3
25°	363.1	347.9	331.6	326.2	319.7
27.5°	332.7	314.3	298.0	293.7	288.3
30°	303.5	284.0	264.5	264.5	256.9
32.5°	272.0	253.6	233.0	231.9	227.6
35°	241.7	223.3	202.7	200.5	196.2
37.5°	213.5	195.1	175.6	169.1	163.7
40°	182.1	165.8	149.6	138.7	132.2
42.5°	157.2	138.7	122.5	109.5	100.8
45°	125.7	112.7	99.7	83.5	72.6
47.5°	97.5	88.9	78.0	59.6	54.2
50°	71.5	67.2	58.5	44.4	43.4
52.5°	45.5	47.7	42.3	34.7	37.9
55°	21.7	30.3	28.2	29.3	31.4
57.5°	14.1	15.2	20.6	23.8	26.0
60°	10.8	10.8	15.2	19.5	21.7
62.5°	8.7	8.7	11.9	16.3	17.3
65°	6.5	7.6	8.7	11.9	14.1
67.5°	5.4	5.4	6.5	9.8	10.8
70°	4.3	4.3	5.4	7.6	8.7
72.5°	3.3	3.3	4.3	6.5	6.5
75°	2.2	3.3	3.3	4.3	5.4
77.5°	2.2	2.2	2.2	3.3	4.3
80°	1.1	1.1	2.2	2.2	3.3
82.5°	1.1	1.1	1.1	1.1	2.2
85°	0.0	0.0	0.0	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)