

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: P1057846

Luminaire Tested: S122RDR-S1005D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057846
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-S1005D935-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

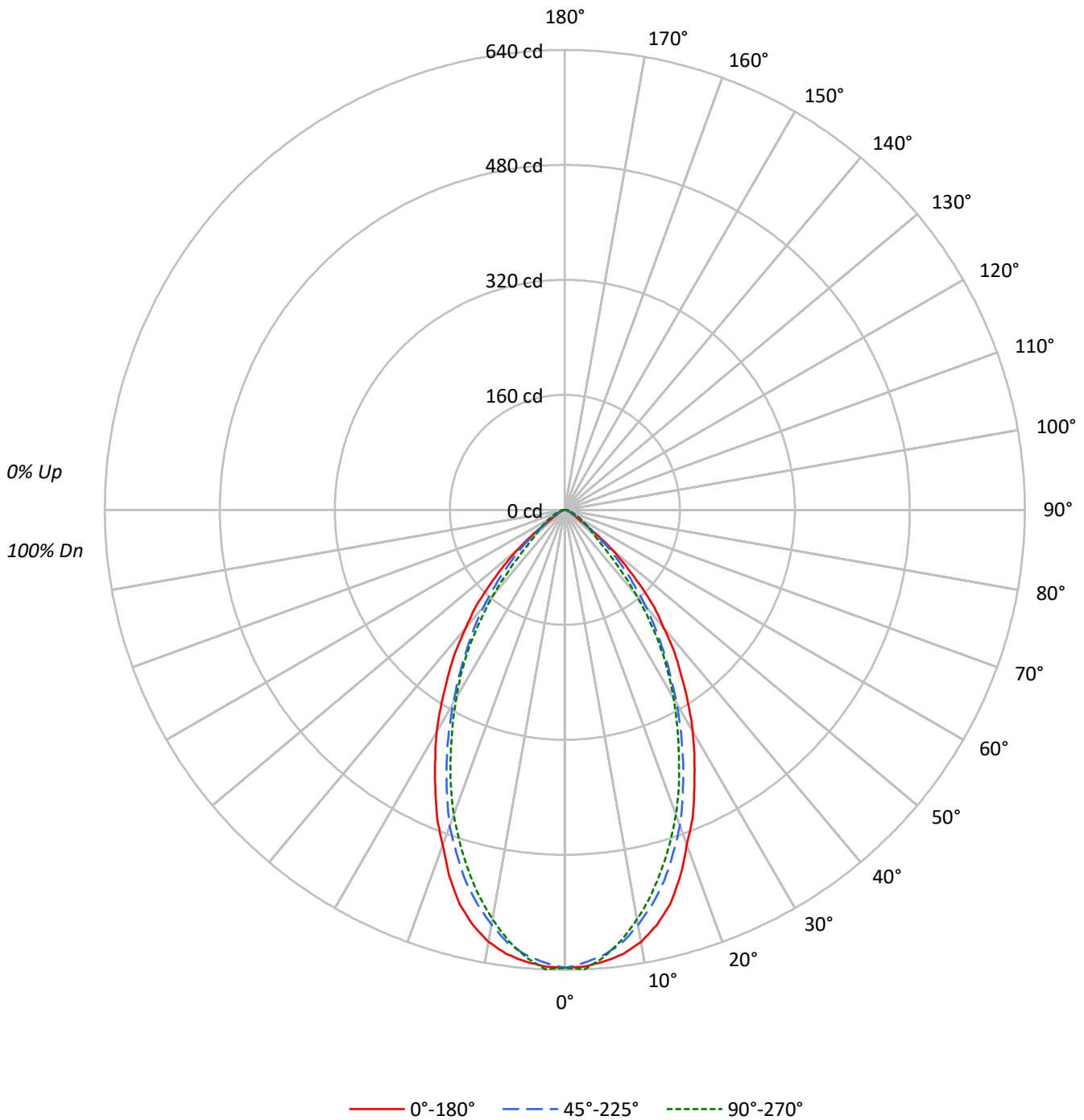
Lumens per Lamp: N/A
Luminaire Lumens: 685.4 lumens
Efficiency: N/A
Efficacy: 16.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	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°	11760	11760	11760
5°	11686	11521	11568
10°	11439	10987	10843
15°	10837	10205	9915
20°	9742	9192	8866
25°	8675	7924	7639
30°	7587	6614	6424
35°	6388	5359	5186
40°	5148	4227	3738
45°	3849	3053	2223
50°	2409	1972	1461
55°	817	1065	1187
60°	469	657	937
65°	332	445	720
70°	275	345	550
75°	178	271	456
80°	138	266	404
85°	0	0	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3849 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	8.6
10°-20°	150.4	21.9
20°-30°	181.0	26.4
30°-40°	154.7	22.6
40°-50°	90.6	13.2
50°-60°	32.8	4.8
60°-70°	11.6	1.7
70°-80°	4.6	0.7
80°-90°	0.8	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°	390.1	56.9
0°-40°	544.8	79.5
0°-60°	668.2	97.5
0°-90°	685.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	631	632	622	624	624	60
15°	567	558	534	524	519	158
25°	426	408	389	383	375	196
35°	284	262	238	235	230	177
45°	148	132	117	98	85	114
55°	25	36	33	34	37	32
65°	8	9	10	14	16	8
75°	2	4	4	5	6	3
85°	0	0	0	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	637.3	637.3	637.3	637.3	637.3
2.5°	636.0	637.3	630.9	637.3	639.8
5°	630.9	632.2	622.0	624.5	624.5
7.5°	623.3	622.0	608.0	605.5	604.2
10°	610.5	606.7	586.4	582.6	578.7
12.5°	591.5	583.8	562.2	555.8	550.8
15°	567.3	558.4	534.2	524.0	519.0
17.5°	534.2	524.0	501.2	491.0	485.9
20°	496.1	485.9	468.1	456.6	451.5
22.5°	464.3	447.7	428.7	421.0	414.7
25°	426.1	408.3	389.2	382.9	375.2
27.5°	390.5	368.9	349.8	344.7	338.3
30°	356.1	333.3	310.4	310.4	301.5
32.5°	319.3	297.6	273.5	272.2	267.1
35°	283.6	262.0	237.9	235.3	230.2
37.5°	250.6	229.0	206.1	198.4	192.1
40°	213.7	194.6	175.5	162.8	155.2
42.5°	184.4	162.8	143.7	128.5	118.3
45°	147.5	132.3	117.0	97.9	85.2
47.5°	114.5	104.3	91.6	70.0	63.6
50°	83.9	78.9	68.7	52.2	50.9
52.5°	53.4	56.0	49.6	40.7	44.5
55°	25.4	35.6	33.1	34.3	36.9
57.5°	16.5	17.8	24.2	28.0	30.5
60°	12.7	12.7	17.8	22.9	25.4
62.5°	10.2	10.2	14.0	19.1	20.4
65°	7.6	8.9	10.2	14.0	16.5
67.5°	6.4	6.4	7.6	11.4	12.7
70°	5.1	5.1	6.4	8.9	10.2
72.5°	3.8	3.8	5.1	7.6	7.6
75°	2.5	3.8	3.8	5.1	6.4
77.5°	2.5	2.5	2.5	3.8	5.1
80°	1.3	1.3	2.5	2.5	3.8
82.5°	1.3	1.3	1.3	1.3	2.5
85°	0.0	0.0	0.0	1.3	1.3
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)