

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: P1057828

Luminaire Tested: S122RDR-S1005D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057828
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-S1005D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

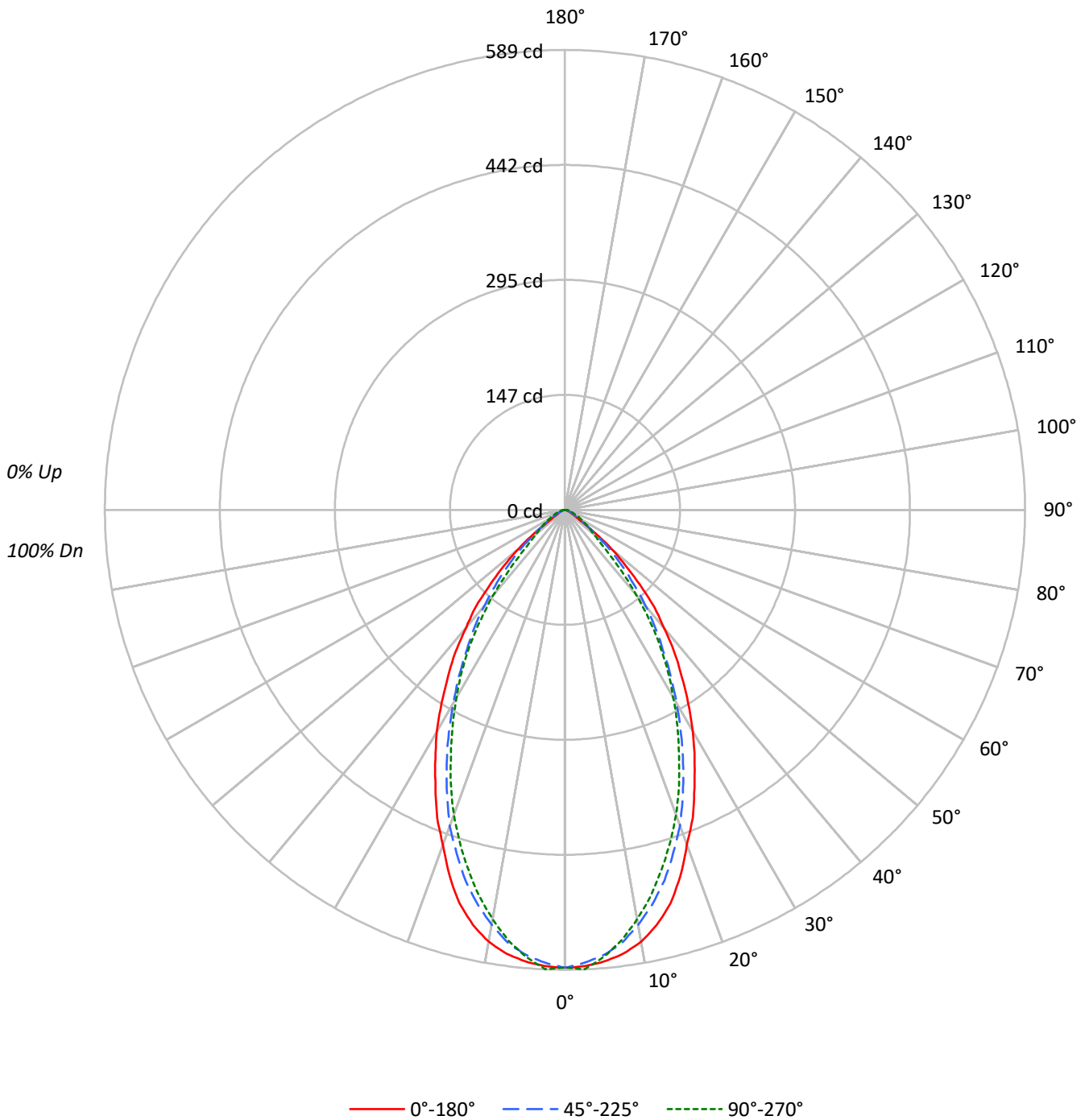
Lumens per Lamp: N/A
Luminaire Lumens: 630.6 lumens
Efficiency: N/A
Efficacy: 15.1 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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°	10819	10819	10819
5°	10753	10601	10643
10°	10525	10109	9978
15°	9972	9389	9122
20°	8962	8458	8159
25°	7983	7291	7028
30°	6982	6085	5911
35°	5879	4929	4771
40°	4736	3890	3440
45°	3544	2811	2046
50°	2216	1814	1343
55°	753	978	1091
60°	432	605	864
65°	306	410	664
70°	254	318	507
75°	164	250	421
80°	128	244	372
85°	0	0	254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3544 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	8.6
10°-20°	138.3	21.9
20°-30°	166.6	26.4
30°-40°	142.3	22.6
40°-50°	83.4	13.2
50°-60°	30.2	4.8
60°-70°	10.7	1.7
70°-80°	4.3	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°	359.0	56.9
0°-40°	501.3	79.5
0°-60°	614.8	97.5
0°-90°	630.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	630.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	580	582	572	575	575	55
15°	522	514	492	482	478	145
25°	392	376	358	352	345	180
35°	261	241	219	216	212	163
45°	136	122	108	90	78	105
55°	23	33	30	32	34	29
65°	7	8	9	13	15	8
75°	2	4	4	5	6	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°	586.3	586.3	586.3	586.3	586.3
2.5°	585.1	586.3	580.5	586.3	588.7
5°	580.5	581.6	572.3	574.6	574.6
7.5°	573.4	572.3	559.4	557.1	555.9
10°	561.7	558.2	539.5	536.0	532.5
12.5°	544.2	537.2	517.3	511.4	506.7
15°	522.0	513.8	491.5	482.2	477.5
17.5°	491.5	482.2	461.1	451.7	447.1
20°	456.4	447.1	430.7	420.1	415.5
22.5°	427.2	411.9	394.4	387.4	381.5
25°	392.1	375.7	358.1	352.3	345.2
27.5°	359.3	339.4	321.8	317.2	311.3
30°	327.7	306.6	285.6	285.6	277.4
32.5°	293.7	273.8	251.6	250.4	245.8
35°	261.0	241.1	218.8	216.5	211.8
37.5°	230.5	210.7	189.6	182.6	176.7
40°	196.6	179.1	161.5	149.8	142.8
42.5°	169.7	149.8	132.2	118.2	108.8
45°	135.8	121.7	107.7	90.1	78.4
47.5°	105.3	96.0	84.3	64.4	58.5
50°	77.2	72.6	63.2	48.0	46.8
52.5°	49.2	51.5	45.6	37.4	41.0
55°	23.4	32.8	30.4	31.6	33.9
57.5°	15.2	16.4	22.2	25.7	28.1
60°	11.7	11.7	16.4	21.1	23.4
62.5°	9.4	9.4	12.9	17.6	18.7
65°	7.0	8.2	9.4	12.9	15.2
67.5°	5.9	5.9	7.0	10.5	11.7
70°	4.7	4.7	5.9	8.2	9.4
72.5°	3.5	3.5	4.7	7.0	7.0
75°	2.3	3.5	3.5	4.7	5.9
77.5°	2.3	2.3	2.3	3.5	4.7
80°	1.2	1.2	2.3	2.3	3.5
82.5°	1.2	1.2	1.2	1.2	2.3
85°	0.0	0.0	0.0	1.2	1.2
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)