

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: P1057932

Luminaire Tested: S122RDR-S290D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057932  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-55 )  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S290D935-X4F0-XX-UDD-WVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

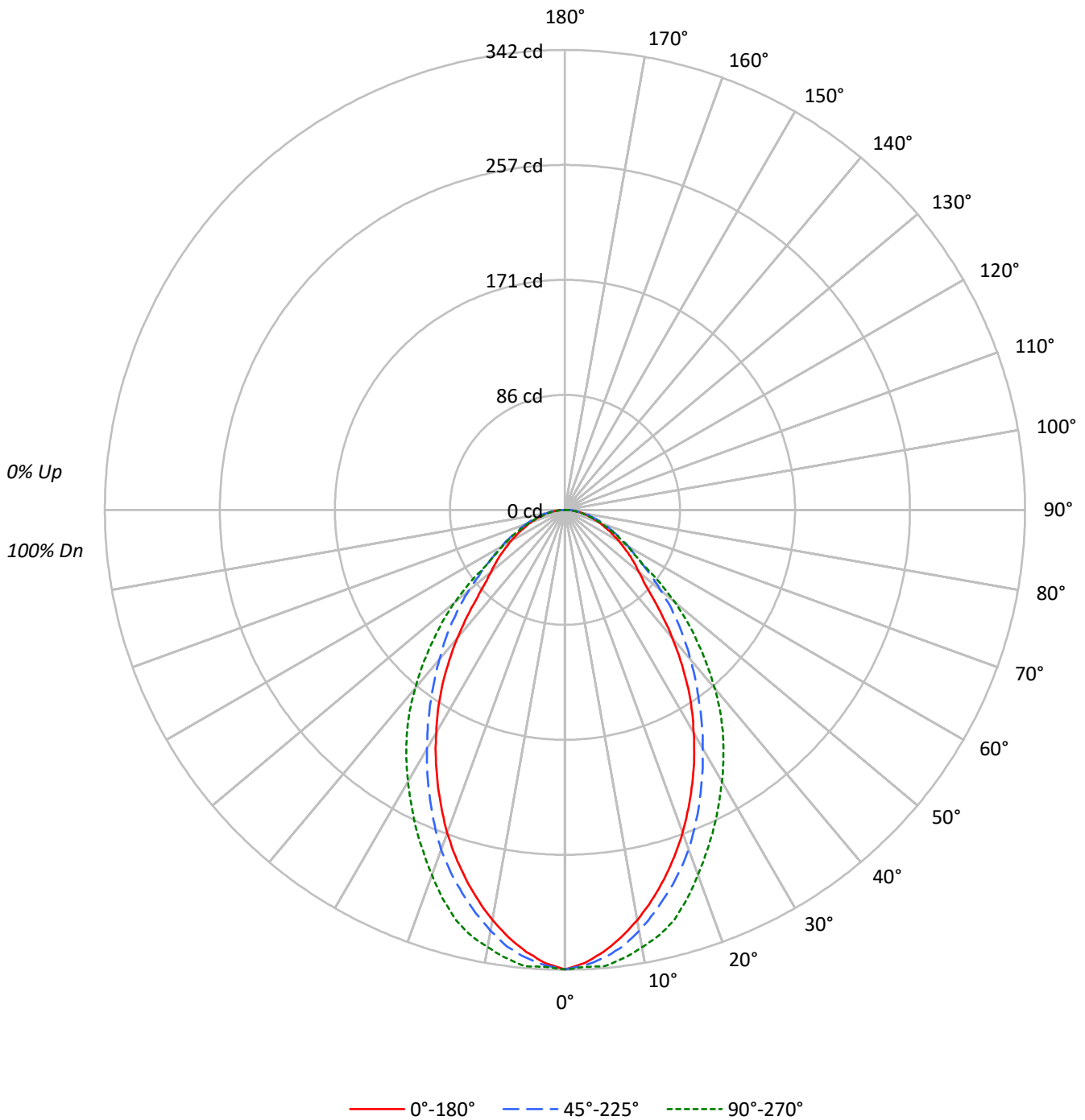
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 557.0 lumens  
Efficiency: N/A  
Efficacy: 44.6 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.5  
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	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	67				
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59				
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				
10	59	47	40	35	58	46	40	35	46	39	35	45	39	35	44	38	34	33				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6305	6305	6305
5°	6111	6192	6309
10°	5803	5955	6189
15°	5433	5636	6021
20°	5021	5280	5677
25°	4563	4831	5326
30°	4078	4368	4971
35°	3575	3915	4618
40°	2992	3495	4167
45°	2398	3098	3643
50°	2055	2670	3057
55°	1879	2268	2258
60°	1709	2008	1967
65°	1554	1795	1716
70°	1430	1646	1527
75°	1333	1519	1333
80°	1254	1403	1169
85°	1249	1482	1016

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3643 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.5	5.7
10°-20°	83.5	15.0
20°-30°	110.1	19.8
30°-40°	110.9	19.9
40°-50°	90.3	16.2
50°-60°	61.5	11.0
60°-70°	39.9	7.2
70°-80°	22.0	3.9
80°-90°	7.2	1.3
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°	225.2	40.4
0°-40°	336.1	60.3
0°-60°	487.9	87.6
0°-90°	557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	557.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	342	342	342	342	342	
5°	330	336	334	337	341	31
15°	284	292	295	307	315	80
25°	224	232	237	248	262	103
35°	159	167	174	189	205	99
45°	92	103	119	129	140	72
55°	58	64	70	71	70	52
65°	36	42	41	39	39	35
75°	19	23	21	19	19	20
85°	6	8	7	6	5	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	341.7	341.7	341.7	341.7	341.7
2.5°	337.3	342.8	339.1	339.5	340.2
5°	329.9	336.2	334.3	337.3	340.6
7.5°	320.7	327.0	327.7	332.1	336.2
10°	309.7	316.7	317.8	324.4	330.3
12.5°	297.6	305.3	306.8	316.3	324.1
15°	284.4	291.7	295.0	307.2	315.2
17.5°	270.4	277.4	282.5	293.6	302.7
20°	255.7	262.3	268.9	278.9	289.1
22.5°	239.9	247.3	253.5	263.4	275.2
25°	224.1	231.5	237.3	248.0	261.6
27.5°	208.0	215.3	221.2	232.6	247.3
30°	191.4	199.1	205.0	217.9	233.3
32.5°	175.3	183.0	189.6	203.2	219.3
35°	158.7	166.8	173.8	188.8	205.0
37.5°	141.1	150.3	159.1	174.1	189.9
40°	124.2	134.5	145.1	159.1	173.0
42.5°	107.3	118.7	131.9	143.7	156.5
45°	91.9	103.2	118.7	129.0	139.6
47.5°	79.7	89.3	105.8	114.3	123.8
50°	71.6	78.3	93.0	99.6	106.5
52.5°	65.0	70.5	80.8	85.2	88.9
55°	58.4	64.3	70.5	70.9	70.2
57.5°	51.8	58.4	61.7	59.2	60.6
60°	46.3	52.9	54.4	51.8	53.3
62.5°	40.4	47.8	47.8	45.2	45.9
65°	35.6	42.3	41.1	38.9	39.3
67.5°	30.9	37.5	35.6	33.4	33.4
70°	26.5	32.7	30.5	28.3	28.3
72.5°	22.4	27.6	26.1	23.5	23.1
75°	18.7	23.1	21.3	19.1	18.7
77.5°	15.1	18.7	17.3	15.4	14.7
80°	11.8	15.1	13.2	11.8	11.0
82.5°	8.8	11.4	9.9	8.5	7.7
85°	5.9	7.7	7.0	5.5	4.8
87.5°	2.9	5.1	4.4	3.7	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)