

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: P1057850

Luminaire Tested: S122RDR-S1005D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D935-X4F0-XX-UDD-WVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

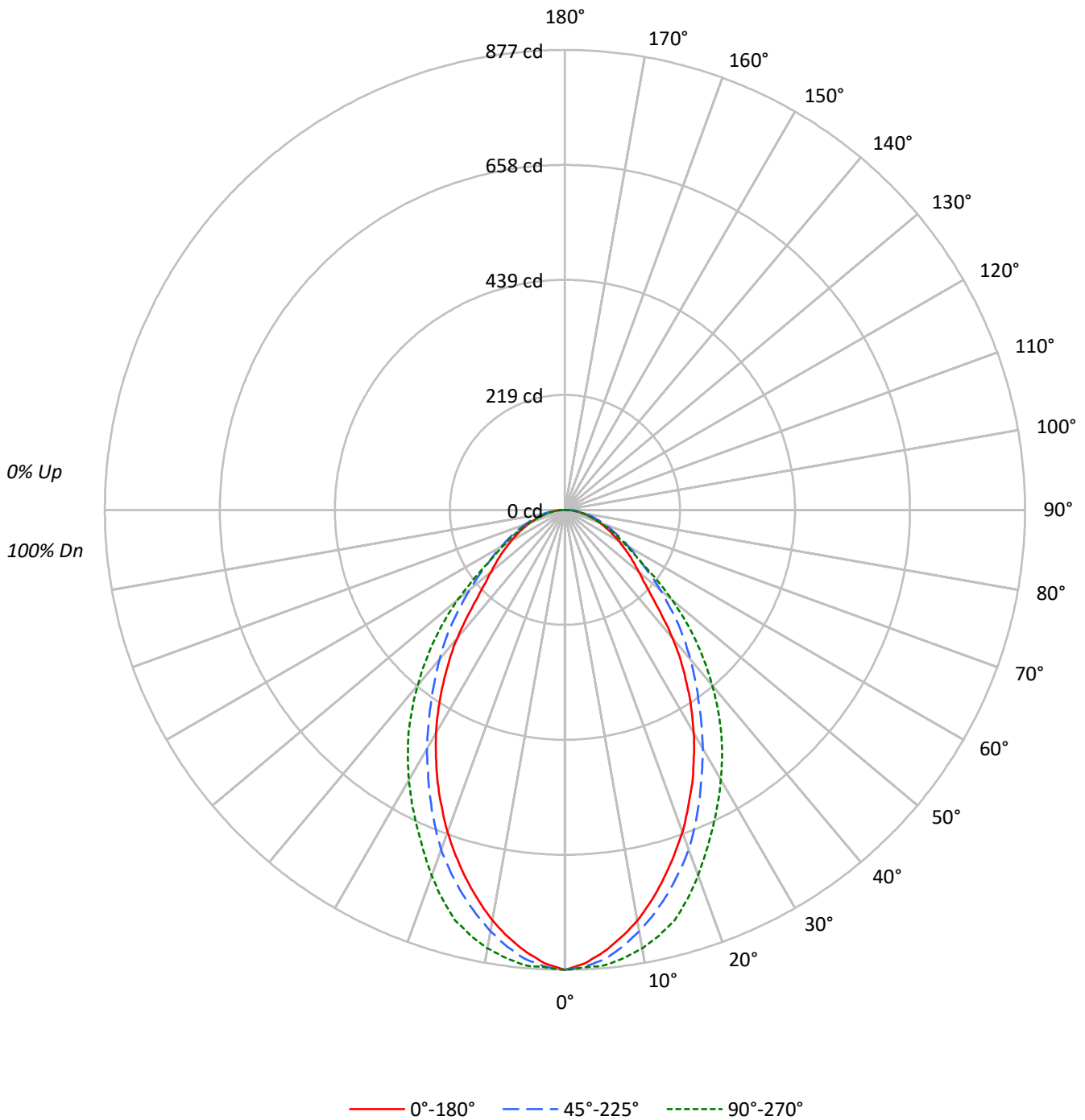
Lumens per Lamp: N/A
Luminaire Lumens: 1428.2 lumens
Efficiency: N/A
Efficacy: 34.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	110	106	103	99	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	79	84	80	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59
5	81	70	62	56	79	69	61	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	45	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	39	35	45	39	35	45	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16185	16185	16185
5°	15680	15939	16152
10°	14907	15289	15910
15°	13909	14469	15466
20°	12848	13547	14572
25°	11689	12363	13580
30°	10470	11201	12667
35°	9119	10008	11700
40°	7696	8954	10517
45°	6112	7907	9201
50°	5262	6798	7636
55°	4790	5816	5855
60°	4370	5167	4978
65°	4004	4667	4392
70°	3706	4327	3917
75°	3451	4085	3451
80°	3252	3921	3114
85°	3239	4044	2689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9201 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	5.7
10°-20°	214.0	15.0
20°-30°	281.7	19.7
30°-40°	283.2	19.8
40°-50°	229.5	16.1
50°-60°	158.1	11.1
60°-70°	103.5	7.2
70°-80°	57.7	4.0
80°-90°	19.5	1.4
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°	576.7	40.4
0°-40°	859.9	60.2
0°-60°	1247.5	87.4
0°-90°	1428.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1428.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	846	863	860	864	872	79
15°	728	746	757	785	810	204
25°	574	589	607	634	667	263
35°	405	424	444	484	519	253
45°	234	261	303	330	353	185
55°	149	166	181	185	182	133
65°	92	110	107	102	101	91
75°	48	60	57	51	48	52
85°	15	20	19	16	13	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.1	877.1	877.1	877.1	877.1
2.5°	865.6	880.9	872.0	872.0	873.3
5°	846.5	863.1	860.5	864.3	872.0
7.5°	822.3	840.2	840.2	851.6	861.8
10°	795.6	813.4	816.0	833.8	849.1
12.5°	762.5	780.3	788.0	810.9	831.2
15°	728.1	746.0	757.4	785.4	809.6
17.5°	691.2	709.0	724.3	753.6	777.8
20°	654.3	670.9	689.9	715.4	742.1
22.5°	613.6	631.4	649.2	673.4	703.9
25°	574.1	589.4	607.2	633.9	667.0
27.5°	532.1	548.6	565.2	597.0	631.4
30°	491.4	507.9	525.7	558.8	594.5
32.5°	448.1	465.9	483.7	520.6	557.6
35°	404.8	423.9	444.3	483.7	519.4
37.5°	362.8	383.2	407.3	448.1	478.6
40°	319.5	341.2	371.7	407.3	436.6
42.5°	273.7	300.4	337.3	367.9	394.6
45°	234.2	261.0	303.0	329.7	352.6
47.5°	204.9	226.6	267.3	290.2	309.3
50°	183.3	199.9	236.8	253.3	266.0
52.5°	165.5	182.0	207.5	219.0	222.8
55°	148.9	165.5	180.8	184.6	182.0
57.5°	132.4	150.2	159.1	155.3	155.3
60°	118.4	137.5	140.0	134.9	134.9
62.5°	104.4	123.5	123.5	117.1	117.1
65°	91.7	109.5	106.9	101.8	100.6
67.5°	80.2	96.7	92.9	87.8	86.6
70°	68.7	84.0	80.2	73.8	72.6
72.5°	58.6	72.6	67.5	62.4	59.8
75°	48.4	59.8	57.3	50.9	48.4
77.5°	39.5	48.4	45.8	40.7	38.2
80°	30.6	38.2	36.9	31.8	29.3
82.5°	22.9	29.3	28.0	24.2	20.4
85°	15.3	20.4	19.1	16.5	12.7
87.5°	7.6	14.0	12.7	11.5	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)