

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: P1057844

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-60)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

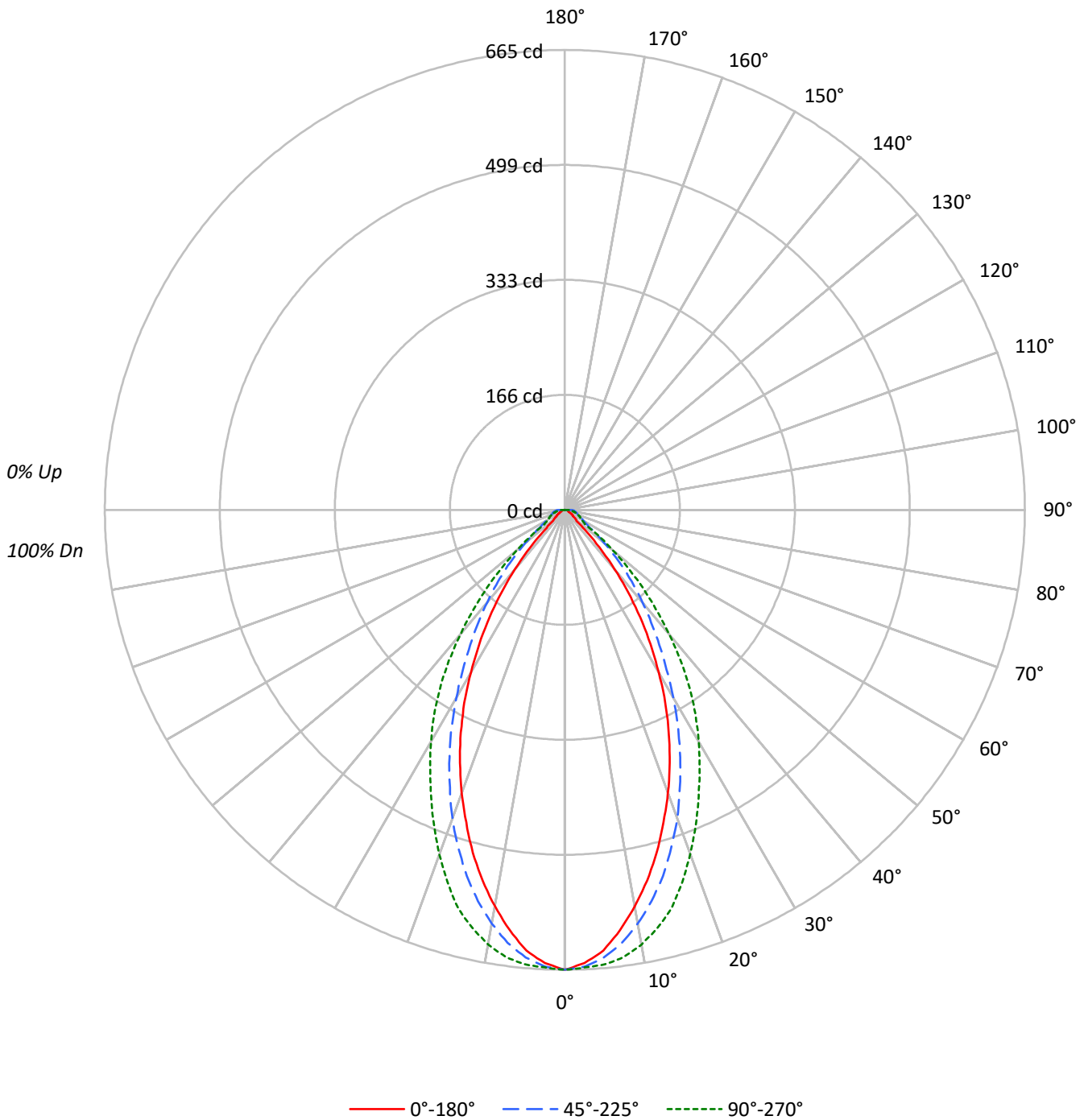
Lumens per Lamp: N/A
Luminaire Lumens: 716.8 lumens
Efficiency: N/A
Efficacy: 17.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.95 / 0.9
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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									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	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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90																												
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81																												
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74																												
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67																												
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61																												
6	82	72	65	60	80	71	64	59	69	63	59	68	63	59	66	62	58	57																												
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52																												
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48																												
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45																												
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12269	12269	12269
5°	11845	12034	12223
10°	10907	11385	11958
15°	9808	10465	11389
20°	8556	9329	10405
25°	7236	8040	9311
30°	5781	6678	8250
35°	4275	5366	7087
40°	2700	4203	5646
45°	1065	3158	4154
50°	548	2121	2561
55°	450	1393	1149
60°	328	1129	1033
65°	279	1057	1057
70°	275	1101	1030
75°	364	1269	1091
80°	542	1626	1222
85°	805	2689	1609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 87.5°
 Luminance: 5373 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	8.5
10°-20°	153.6	21.4
20°-30°	182.6	25.5
30°-40°	151.9	21.2
40°-50°	84.8	11.8
50°-60°	34.3	4.8
60°-70°	21.9	3.1
70°-80°	16.4	2.3
80°-90°	10.5	1.5
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°	397.0	55.4
0°-40°	548.9	76.6
0°-60°	667.9	93.2
0°-90°	716.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	716.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	640	651	650	655	660	59
15°	513	529	548	576	596	143
25°	355	369	395	426	457	162
35°	190	208	238	278	315	118
45°	41	69	121	141	159	38
55°	14	29	43	42	36	12
65°	6	26	24	23	24	6
75°	5	18	18	17	15	5
85°	4	12	13	12	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.9	664.9	664.9	664.9	664.9
2.5°	656.0	666.2	661.1	661.1	662.4
5°	639.5	650.9	649.7	654.8	659.9
7.5°	612.7	625.5	631.8	643.3	652.2
10°	582.1	596.2	607.6	625.5	638.2
12.5°	549.0	563.0	579.6	602.5	619.1
15°	513.4	528.6	547.8	575.8	596.2
17.5°	473.9	490.4	512.1	542.7	564.3
20°	435.7	452.2	475.1	505.7	529.9
22.5°	396.2	410.2	434.4	465.0	494.3
25°	355.4	369.4	394.9	425.5	457.3
27.5°	314.6	328.7	354.1	386.0	421.6
30°	271.3	286.6	313.4	349.0	387.2
32.5°	230.6	245.9	273.9	313.4	351.6
35°	189.8	207.6	238.2	277.7	314.6
37.5°	150.3	170.7	205.1	242.0	275.2
40°	112.1	133.8	174.5	206.4	234.4
42.5°	73.9	99.4	146.5	173.2	194.9
45°	40.8	68.8	121.0	141.4	159.2
47.5°	22.9	44.6	95.5	112.1	122.3
50°	19.1	33.1	73.9	85.3	89.2
52.5°	15.3	30.6	56.0	62.4	59.9
55°	14.0	29.3	43.3	42.0	35.7
57.5°	11.5	29.3	34.4	30.6	30.6
60°	8.9	28.0	30.6	26.8	28.0
62.5°	7.6	26.8	28.0	25.5	25.5
65°	6.4	25.5	24.2	22.9	24.2
67.5°	5.1	22.9	22.9	21.7	21.7
70°	5.1	21.7	20.4	19.1	19.1
72.5°	5.1	19.1	19.1	17.8	17.8
75°	5.1	17.8	17.8	16.6	15.3
77.5°	5.1	15.3	16.6	15.3	14.0
80°	5.1	14.0	15.3	14.0	11.5
82.5°	5.1	12.7	14.0	12.7	10.2
85°	3.8	11.5	12.7	11.5	7.6
87.5°	3.8	11.5	12.7	10.2	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)