

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: P1057867

Luminaire Tested: S122RDR-S1005D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-19)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D950-X4F0-XX-UDD-WVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

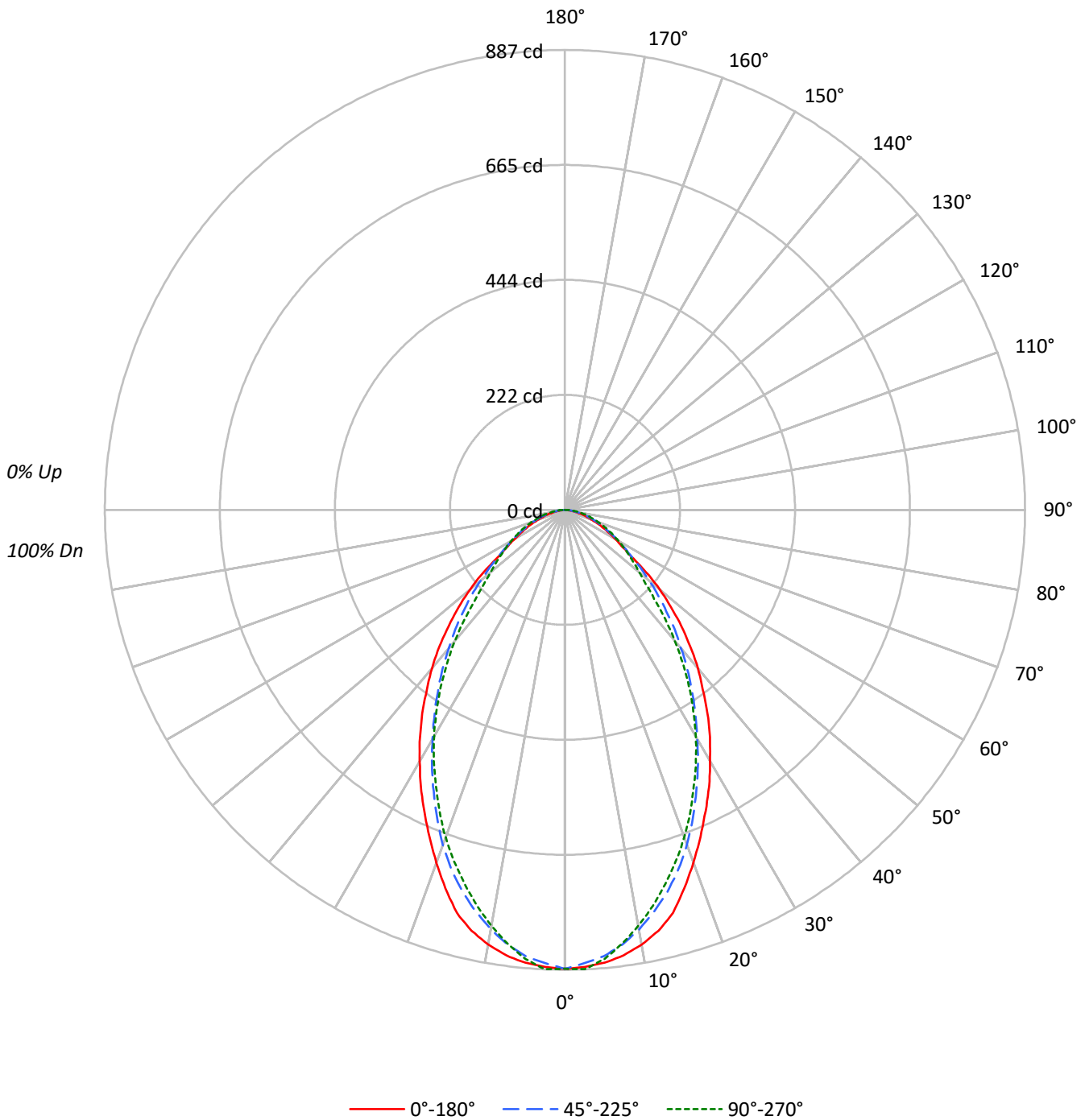
Lumens per Lamp: N/A
Luminaire Lumens: 1344.3 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68				68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44				44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41				41
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16332	16332	16332
5°	16239	16004	16108
10°	15951	15396	15265
15°	15374	14566	14270
20°	14227	13506	13202
25°	13057	12196	11966
30°	11923	10871	10752
35°	10795	9621	9398
40°	9609	8385	7944
45°	8275	7210	6362
50°	6838	6069	5339
55°	4941	5035	4806
60°	4108	4318	4370
65°	3506	3755	3999
70°	2892	3345	3653
75°	2410	2816	3315
80°	1796	2242	2997
85°	593	1186	2689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8275 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	6.1
10°-20°	215.5	16.0
20°-30°	278.9	20.7
30°-40°	273.5	20.3
40°-50°	215.4	16.0
50°-60°	141.2	10.5
60°-70°	85.9	6.4
70°-80°	42.9	3.2
80°-90°	9.2	0.7
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°	576.1	42.9
0°-40°	849.6	63.2
0°-60°	1206.1	89.7
0°-90°	1344.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1344.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	877	877	864	870	870	83
15°	805	794	762	753	747	224
25°	641	620	599	596	588	295
35°	479	452	427	426	417	299
45°	317	297	276	256	244	244
55°	154	162	156	151	149	146
65°	80	82	86	90	92	80
75°	34	35	40	45	46	36
85°	3	4	6	10	13	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	885.1	885.1	885.1	885.1	885.1
2.5°	882.3	883.7	875.3	883.7	886.6
5°	876.7	876.7	864.0	869.6	869.6
7.5°	866.8	865.4	845.7	845.7	844.3
10°	851.3	845.7	821.7	817.5	814.7
12.5°	831.6	821.7	793.5	786.5	782.3
15°	804.8	793.5	762.5	752.7	747.0
17.5°	765.3	754.1	727.3	716.0	710.4
20°	724.5	707.6	687.8	678.0	672.3
22.5°	682.2	662.4	644.1	637.1	631.4
25°	641.3	620.2	599.0	596.2	587.7
27.5°	601.8	576.5	555.3	553.9	546.9
30°	559.6	532.8	510.2	511.6	504.6
32.5°	520.1	494.7	467.9	469.4	460.9
35°	479.2	452.4	427.1	425.7	417.2
37.5°	436.9	411.6	387.6	382.0	373.5
40°	398.9	373.5	348.1	338.3	329.8
42.5°	358.0	335.5	312.9	297.4	286.1
45°	317.1	297.4	276.3	256.5	243.8
47.5°	277.7	262.2	243.8	219.9	211.4
50°	238.2	226.9	211.4	190.3	186.0
52.5°	197.3	193.1	183.2	169.1	167.7
55°	153.6	162.1	156.5	150.8	149.4
57.5°	129.7	131.1	135.3	133.9	133.9
60°	111.3	111.3	117.0	118.4	118.4
62.5°	94.4	95.8	101.5	104.3	104.3
65°	80.3	81.7	86.0	90.2	91.6
67.5°	66.2	69.1	73.3	77.5	78.9
70°	53.6	56.4	62.0	66.2	67.7
72.5°	43.7	45.1	50.7	55.0	56.4
75°	33.8	35.2	39.5	45.1	46.5
77.5°	24.0	26.8	31.0	35.2	38.1
80°	16.9	18.3	21.1	26.8	28.2
82.5°	9.9	11.3	14.1	18.3	19.7
85°	2.8	4.2	5.6	9.9	12.7
87.5°	0.0	0.0	0.0	2.8	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)