

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: P1057863

Luminaire Tested: S122RDR-S1005D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-57)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D950-X4F0-XX-UDD-BVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

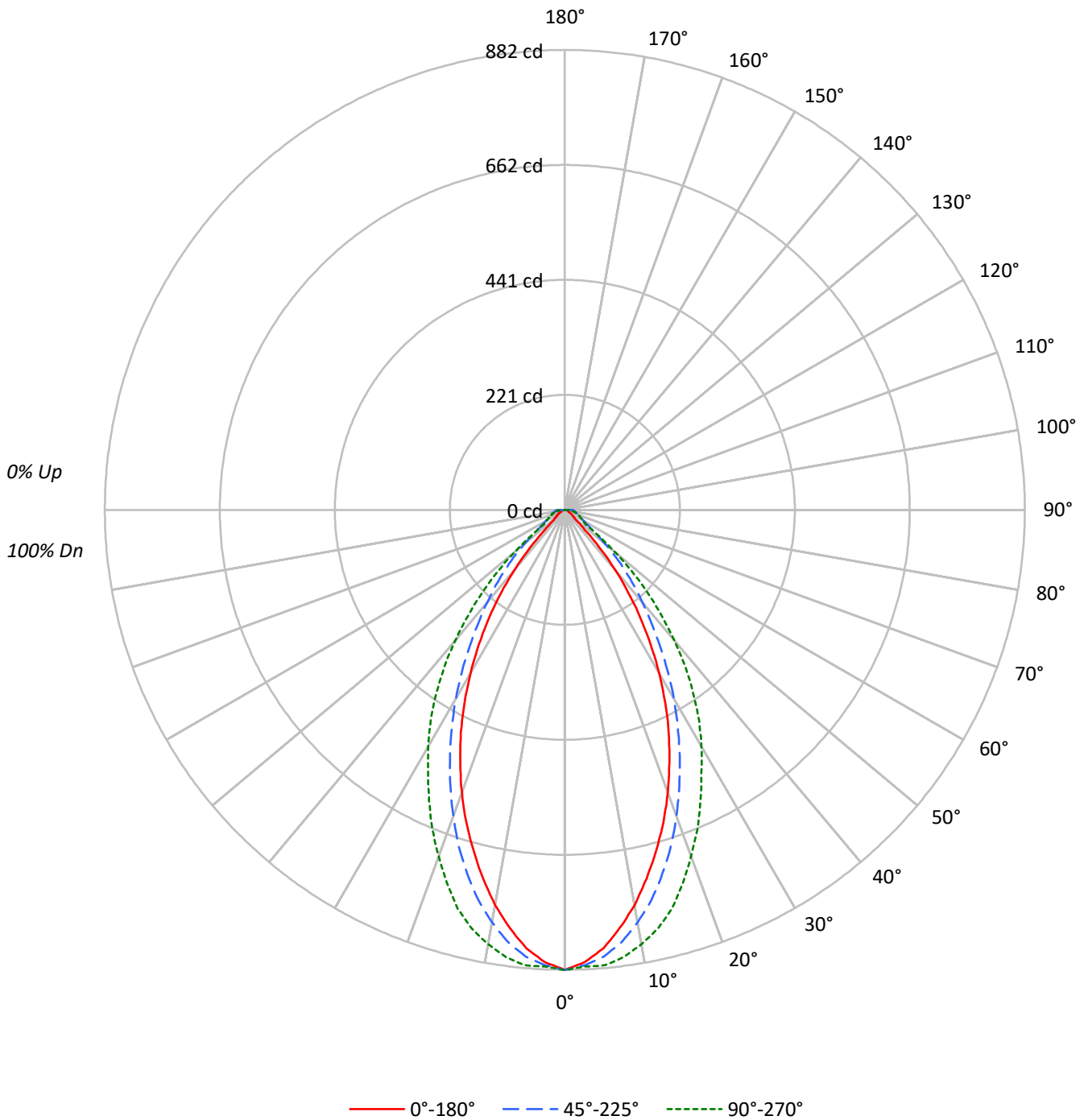
Lumens per Lamp: N/A
Luminaire Lumens: 960.4 lumens
Efficiency: N/A
Efficacy: 23.0 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.96 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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	76	81	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	67	64	71	66	63	61				
6	82	72	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56				
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52				
8	73	62	55	51	72	62	55	51	60	54	50	59	54	50	58	53	50	48				
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45				
10	66	55	48	44	64	54	48	44	53	48	44	53	47	43	52	47	43	42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16281	16281	16281
5°	15637	15926	16239
10°	14416	15052	15844
15°	12918	13808	15130
20°	11338	12281	13889
25°	9600	10606	12532
30°	7700	8904	11161
35°	5692	7123	9668
40°	3570	5576	7855
45°	1399	4199	5822
50°	689	2836	3565
55°	544	1863	1589
60°	417	1509	1458
65°	310	1419	1419
70°	383	1446	1446
75°	399	1611	1511
80°	595	2104	1647
85°	1186	3578	2392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 87.5°
 Luminance: 6557 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	8.4
10°-20°	203.7	21.2
20°-30°	243.7	25.4
30°-40°	205.1	21.4
40°-50°	116.8	12.2
50°-60°	46.1	4.8
60°-70°	29.0	3.0
70°-80°	21.6	2.2
80°-90°	13.7	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°	528.1	55.0
0°-40°	733.2	76.3
0°-60°	896.1	93.3
0°-90°	960.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	844	863	860	870	877	78
15°	676	700	723	765	792	189
25°	472	493	521	575	616	215
35°	253	275	316	384	429	157
45°	54	95	161	202	223	51
55°	17	37	58	59	49	15
65°	7	32	32	31	32	8
75°	6	23	23	21	21	6
85°	6	16	17	16	11	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.3	882.3	882.3	882.3	882.3
2.5°	868.2	883.8	873.9	875.3	876.7
5°	844.2	862.6	859.8	869.6	876.7
7.5°	808.9	828.7	835.8	852.7	865.4
10°	769.4	792.0	803.3	830.1	845.6
12.5°	724.2	749.6	766.6	800.5	823.0
15°	676.2	700.2	722.8	765.2	792.0
17.5°	628.2	652.2	676.2	722.8	751.0
20°	577.4	600.0	625.4	674.8	707.3
22.5°	523.8	547.8	573.2	624.0	663.5
25°	471.5	492.7	520.9	574.6	615.5
27.5°	416.5	437.6	468.7	523.8	567.5
30°	361.4	382.6	417.9	474.3	523.8
32.5°	306.3	328.9	367.1	429.2	478.6
35°	252.7	275.3	316.2	384.0	429.2
37.5°	200.5	225.9	271.1	337.4	379.8
40°	148.2	177.9	231.5	290.8	326.1
42.5°	98.8	135.5	194.8	244.2	273.9
45°	53.6	94.6	160.9	201.9	223.1
47.5°	29.6	60.7	128.5	160.9	173.6
50°	24.0	42.4	98.8	122.8	124.2
52.5°	19.8	38.1	73.4	87.5	80.5
55°	16.9	36.7	57.9	59.3	49.4
57.5°	14.1	35.3	48.0	42.4	42.4
60°	11.3	35.3	40.9	38.1	39.5
62.5°	8.5	35.3	36.7	33.9	35.3
65°	7.1	32.5	32.5	31.1	32.5
67.5°	7.1	29.6	29.6	28.2	29.6
70°	7.1	28.2	26.8	26.8	26.8
72.5°	5.6	25.4	25.4	24.0	24.0
75°	5.6	22.6	22.6	21.2	21.2
77.5°	5.6	21.2	21.2	19.8	18.4
80°	5.6	18.4	19.8	18.4	15.5
82.5°	5.6	16.9	18.4	16.9	12.7
85°	5.6	15.5	16.9	15.5	11.3
87.5°	4.2	15.5	15.5	12.7	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)