

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: P1057840

Luminaire Tested: S122RDR-S1005D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057840
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-S1005D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

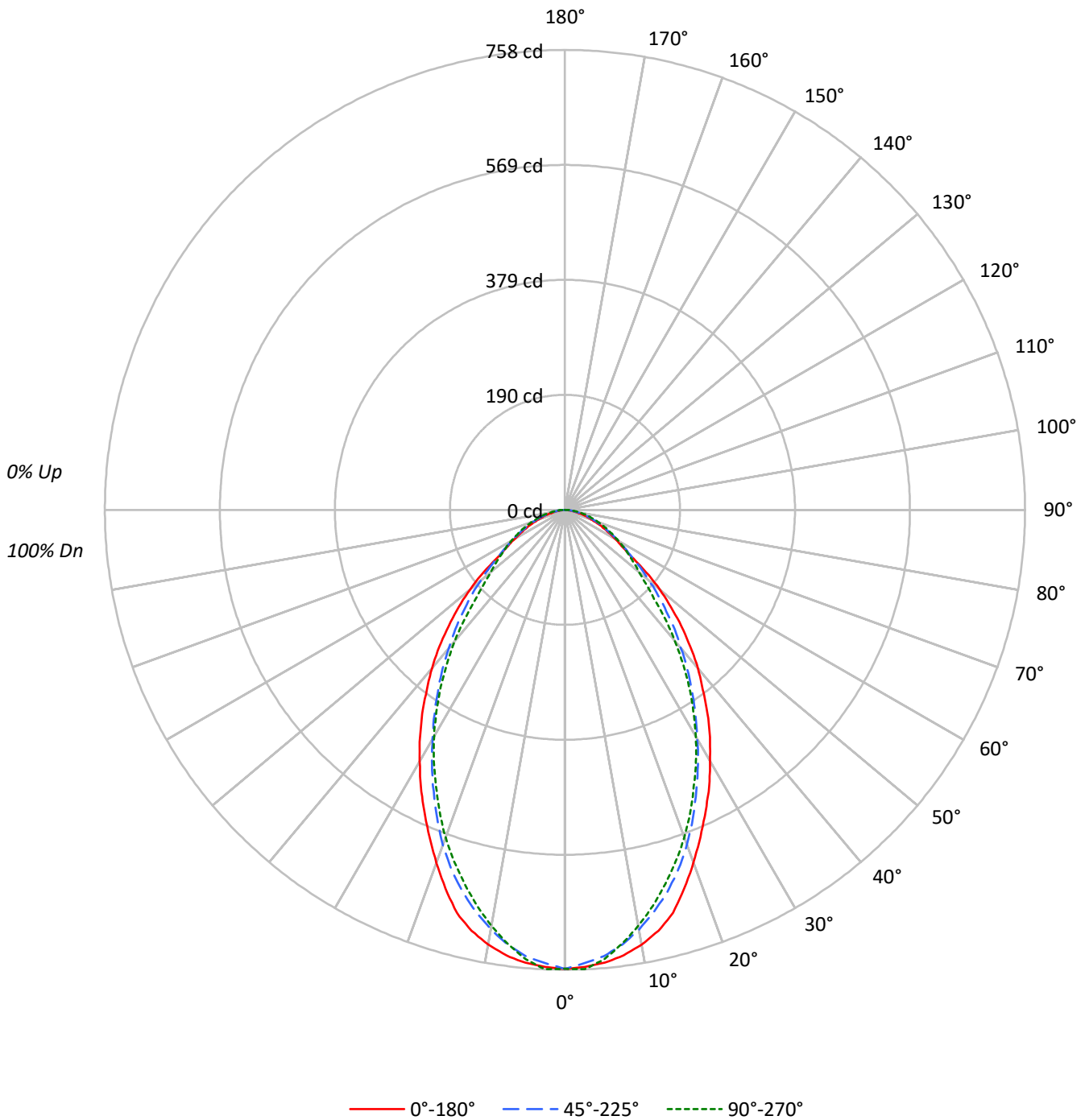
Lumens per Lamp: N/A
Luminaire Lumens: 1148.8 lumens
Efficiency: N/A
Efficacy: 27.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13959	13959	13959
5°	13877	13677	13766
10°	13631	13157	13045
15°	13139	12450	12196
20°	12157	11542	11283
25°	11159	10422	10227
30°	10189	9290	9188
35°	9225	8222	8031
40°	8212	7166	6790
45°	7072	6161	5438
50°	5845	5187	4564
55°	4224	4301	4108
60°	3513	3690	3735
65°	3000	3209	3419
70°	2471	2859	3118
75°	2060	2403	2830
80°	1541	1923	2561
85°	508	1016	2287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7072 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	6.1
10°-20°	184.1	16.0
20°-30°	238.3	20.7
30°-40°	233.7	20.3
40°-50°	184.0	16.0
50°-60°	120.6	10.5
60°-70°	73.4	6.4
70°-80°	36.7	3.2
80°-90°	7.9	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°	492.4	42.9
0°-40°	726.1	63.2
0°-60°	1030.8	89.7
0°-90°	1148.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	749	749	738	743	743	71
15°	688	678	652	643	638	192
25°	548	530	512	510	502	252
35°	410	387	365	364	356	255
45°	271	254	236	219	208	209
55°	131	138	134	129	128	125
65°	69	70	74	77	78	68
75°	29	30	34	38	40	31
85°	2	4	5	8	11	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.5	756.5	756.5	756.5	756.5
2.5°	754.0	755.2	748.0	755.2	757.7
5°	749.2	749.2	738.4	743.2	743.2
7.5°	740.8	739.6	722.7	722.7	721.5
10°	727.5	722.7	702.2	698.6	696.2
12.5°	710.7	702.2	678.2	672.1	668.5
15°	687.8	678.2	651.7	643.2	638.4
17.5°	654.1	644.4	621.5	611.9	607.1
20°	619.1	604.7	587.8	579.4	574.6
22.5°	583.0	566.1	550.5	544.5	539.6
25°	548.1	530.0	511.9	509.5	502.3
27.5°	514.3	492.7	474.6	473.4	467.4
30°	478.2	455.3	436.0	437.2	431.2
32.5°	444.5	422.8	399.9	401.1	393.9
35°	409.5	386.7	365.0	363.8	356.5
37.5°	373.4	351.7	331.2	326.4	319.2
40°	340.9	319.2	297.5	289.1	281.9
42.5°	306.0	286.7	267.4	254.2	244.5
45°	271.0	254.2	236.1	219.2	208.4
47.5°	237.3	224.0	208.4	187.9	180.7
50°	203.6	193.9	180.7	162.6	159.0
52.5°	168.6	165.0	156.6	144.5	143.3
55°	131.3	138.5	133.7	128.9	127.7
57.5°	110.8	112.0	115.6	114.4	114.4
60°	95.2	95.2	100.0	101.2	101.2
62.5°	80.7	81.9	86.7	89.1	89.1
65°	68.7	69.9	73.5	77.1	78.3
67.5°	56.6	59.0	62.6	66.2	67.5
70°	45.8	48.2	53.0	56.6	57.8
72.5°	37.3	38.5	43.4	47.0	48.2
75°	28.9	30.1	33.7	38.5	39.7
77.5°	20.5	22.9	26.5	30.1	32.5
80°	14.5	15.7	18.1	22.9	24.1
82.5°	8.4	9.6	12.0	15.7	16.9
85°	2.4	3.6	4.8	8.4	10.8
87.5°	0.0	0.0	0.0	2.4	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)