

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: P1057839

Luminaire Tested: S122RDR-S1005D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D930-X4F0-XX-UDD-SVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

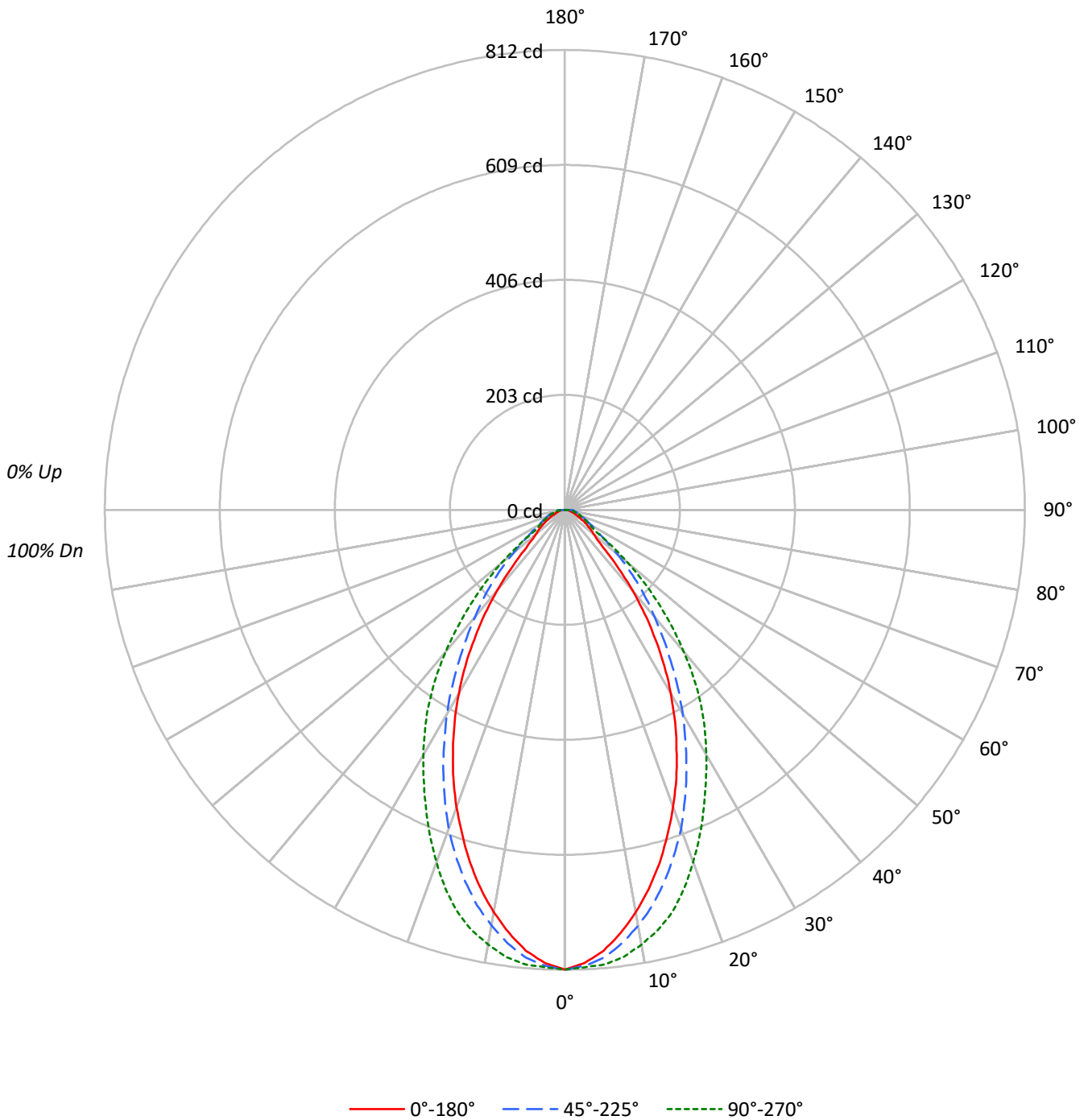
Lumens per Lamp: N/A
Luminaire Lumens: 984.7 lumens
Efficiency: N/A
Efficacy: 23.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1057839

CATALOG NUMBER: S122RDR-S1005D930-X4F0-XX-UDD-SVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1057839

CATALOG NUMBER: S122RDR-S1005D930-X4F0-XX-UDD-SVL-W

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89		
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80		
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50		
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46		
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42		
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14980	14980	14980
5°	14478	14702	14926
10°	13515	13967	14600
15°	12327	12973	14033
20°	10967	11772	13003
25°	9504	10339	11813
30°	7967	8866	10641
35°	6276	7337	9430
40°	4476	5928	7874
45°	2643	4689	6106
50°	1903	3393	4154
55°	1592	2445	2094
60°	1292	1960	1779
65°	1052	1738	1633
70°	912	1694	1559
75°	863	1718	1547
80°	893	2051	1668
85°	1270	3324	2032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6106 cd/sqm



TEST NUMBER: P1057839

CATALOG NUMBER: S122RDR-S1005D930-X4F0-XX-UDD-SVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	7.6
10°-20°	191.3	19.4
20°-30°	236.0	24.0
30°-40°	209.9	21.3
40°-50°	134.0	13.6
50°-60°	64.3	6.5
60°-70°	37.8	3.8
70°-80°	24.1	2.4
80°-90°	12.9	1.3
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°	501.7	51.0
0°-40°	711.6	72.3
0°-60°	909.9	92.4
0°-90°	984.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	782	796	794	798	806	73
15°	645	661	679	710	735	180
25°	467	485	508	544	580	214
35°	279	300	326	375	419	173
45°	101	132	180	209	234	85
55°	50	64	76	74	65	45
65°	24	43	40	36	37	24
75°	12	26	24	23	22	13
85°	6	14	16	13	10	6
90°	0	0	0	0	0	



TEST NUMBER: P1057839

CATALOG NUMBER: S122RDR-S1005D930-X4F0-XX-UDD-SVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	811.8	811.8	811.8	811.8	811.8
2.5°	800.9	814.2	805.8	805.8	808.2
5°	781.6	796.1	793.7	798.5	805.8
7.5°	753.9	769.6	772.0	785.3	796.1
10°	721.3	738.2	745.4	764.7	779.2
12.5°	685.1	702.0	715.3	739.4	759.9
15°	645.3	661.0	679.1	710.5	734.6
17.5°	601.9	622.4	640.5	673.1	700.8
20°	558.5	577.8	599.5	630.9	662.2
22.5°	513.9	531.9	553.7	586.2	622.4
25°	466.8	484.9	507.8	544.0	580.2
27.5°	421.0	439.1	460.8	500.6	539.2
30°	373.9	392.0	416.1	457.2	499.4
32.5°	326.9	346.2	370.3	414.9	459.6
35°	278.6	300.4	325.7	375.1	418.6
37.5°	231.6	253.3	284.7	332.9	373.9
40°	185.8	211.1	246.1	289.5	326.9
42.5°	141.1	168.9	212.3	247.3	279.8
45°	101.3	131.5	179.7	208.7	234.0
47.5°	77.2	98.9	148.4	171.3	189.4
50°	66.3	79.6	118.2	135.1	144.7
52.5°	57.9	70.0	94.1	102.5	102.5
55°	49.5	63.9	76.0	73.6	65.1
57.5°	42.2	57.9	62.7	53.1	55.5
60°	35.0	53.1	53.1	47.0	48.2
62.5°	28.9	49.5	45.8	41.0	42.2
65°	24.1	43.4	39.8	36.2	37.4
67.5°	19.3	38.6	35.0	32.6	32.6
70°	16.9	35.0	31.4	28.9	28.9
72.5°	14.5	30.2	27.7	25.3	25.3
75°	12.1	26.5	24.1	22.9	21.7
77.5°	10.9	22.9	21.7	19.3	18.1
80°	8.4	19.3	19.3	18.1	15.7
82.5°	7.2	16.9	16.9	15.7	13.3
85°	6.0	14.5	15.7	13.3	9.6
87.5°	4.8	13.3	13.3	10.9	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)