

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: P1058084

Luminaire Tested: S122RDR-S675D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D930-X4F0-XX-UDD-WVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

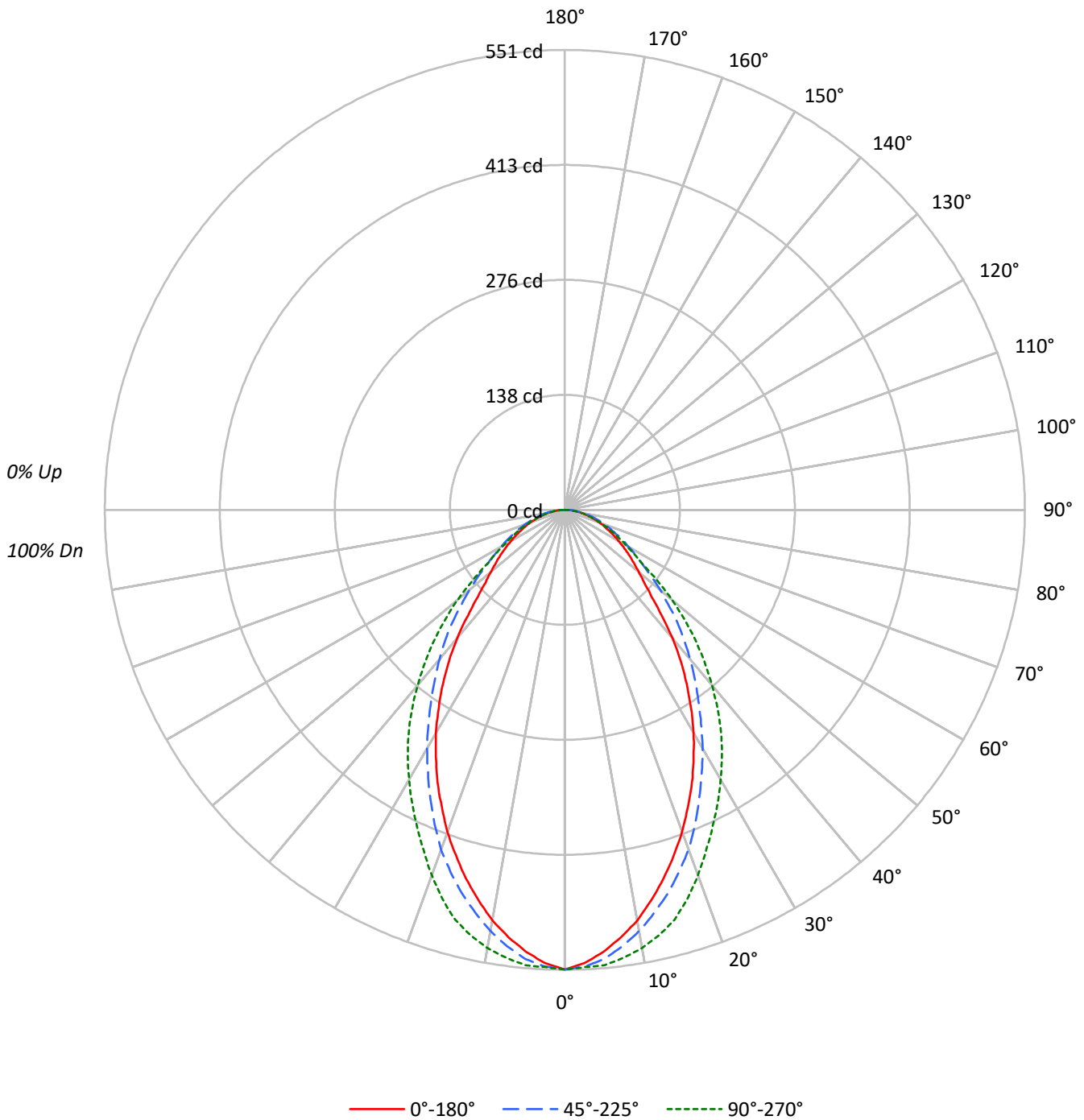
Lumens per Lamp: N/A
Luminaire Lumens: 896.7 lumens
Efficiency: N/A
Efficacy: 34.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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: P1058084

CATALOG NUMBER: S122RDR-S675D930-X4F0-XX-UDD-WVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1058084

CATALOG NUMBER: S122RDR-S675D930-X4F0-XX-UDD-WVL-S

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10162	10162	10162
5°	9845	10008	10141
10°	9359	9599	9989
15°	8734	9086	9710
20°	8067	8507	9151
25°	7340	7761	8527
30°	6573	7033	7954
35°	5726	6283	7346
40°	4832	5622	6603
45°	3839	4963	5778
50°	3304	4269	4794
55°	3008	3651	3677
60°	2742	3244	3126
65°	2511	2930	2755
70°	2331	2719	2460
75°	2167	2567	2167
80°	2040	2465	1955
85°	2032	2541	1694

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5778 cd/sqm



TEST NUMBER: P1058084

CATALOG NUMBER: S122RDR-S675D930-X4F0-XX-UDD-WVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	5.7
10°-20°	134.4	15.0
20°-30°	176.9	19.7
30°-40°	177.8	19.8
40°-50°	144.1	16.1
50°-60°	99.3	11.1
60°-70°	65.0	7.2
70°-80°	36.2	4.0
80°-90°	12.3	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°	362.1	40.4
0°-40°	539.9	60.2
0°-60°	783.3	87.3
0°-90°	896.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	551	551	551	551	551	
5°	532	542	540	543	548	50
15°	457	468	476	493	508	128
25°	360	370	381	398	419	165
35°	254	266	279	304	326	159
45°	147	164	190	207	221	116
55°	94	104	114	116	114	84
65°	58	69	67	64	63	57
75°	30	38	36	32	30	32
85°	10	13	12	10	8	10
90°	0	0	0	0	0	



TEST NUMBER: P1058084

CATALOG NUMBER: S122RDR-S675D930-X4F0-XX-UDD-WVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	550.7	550.7	550.7	550.7	550.7
2.5°	543.5	553.1	547.5	547.5	548.3
5°	531.5	541.9	540.3	542.7	547.5
7.5°	516.3	527.5	527.5	534.7	541.1
10°	499.5	510.7	512.3	523.5	533.1
12.5°	478.8	489.9	494.7	509.1	521.9
15°	457.2	468.4	475.6	493.1	508.3
17.5°	434.0	445.2	454.8	473.2	488.3
20°	410.8	421.2	433.2	449.2	466.0
22.5°	385.2	396.4	407.6	422.8	442.0
25°	360.5	370.1	381.2	398.0	418.8
27.5°	334.1	344.5	354.9	374.9	396.4
30°	308.5	318.9	330.1	350.9	373.3
32.5°	281.3	292.5	303.7	326.9	350.1
35°	254.2	266.2	278.9	303.7	326.1
37.5°	227.8	240.6	255.8	281.3	300.5
40°	200.6	214.2	233.4	255.8	274.1
42.5°	171.8	188.6	211.8	231.0	247.8
45°	147.1	163.8	190.2	207.0	221.4
47.5°	128.7	142.3	167.8	182.2	194.2
50°	115.1	125.5	148.7	159.1	167.0
52.5°	103.9	114.3	130.3	137.5	139.9
55°	93.5	103.9	113.5	115.9	114.3
57.5°	83.1	94.3	99.9	97.5	97.5
60°	74.3	86.3	87.9	84.7	84.7
62.5°	65.5	77.5	77.5	73.5	73.5
65°	57.5	68.7	67.1	63.9	63.1
67.5°	50.4	60.7	58.3	55.1	54.3
70°	43.2	52.8	50.4	46.4	45.6
72.5°	36.8	45.6	42.4	39.2	37.6
75°	30.4	37.6	36.0	32.0	30.4
77.5°	24.8	30.4	28.8	25.6	24.0
80°	19.2	24.0	23.2	20.0	18.4
82.5°	14.4	18.4	17.6	15.2	12.8
85°	9.6	12.8	12.0	10.4	8.0
87.5°	4.8	8.8	8.0	7.2	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)