

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: P1055241

Luminaire Tested: S122R3DR-S675D930-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122R3DR-S675D930-X4F0-XX-UDD-FLL-W
Description: DEFINE 2, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

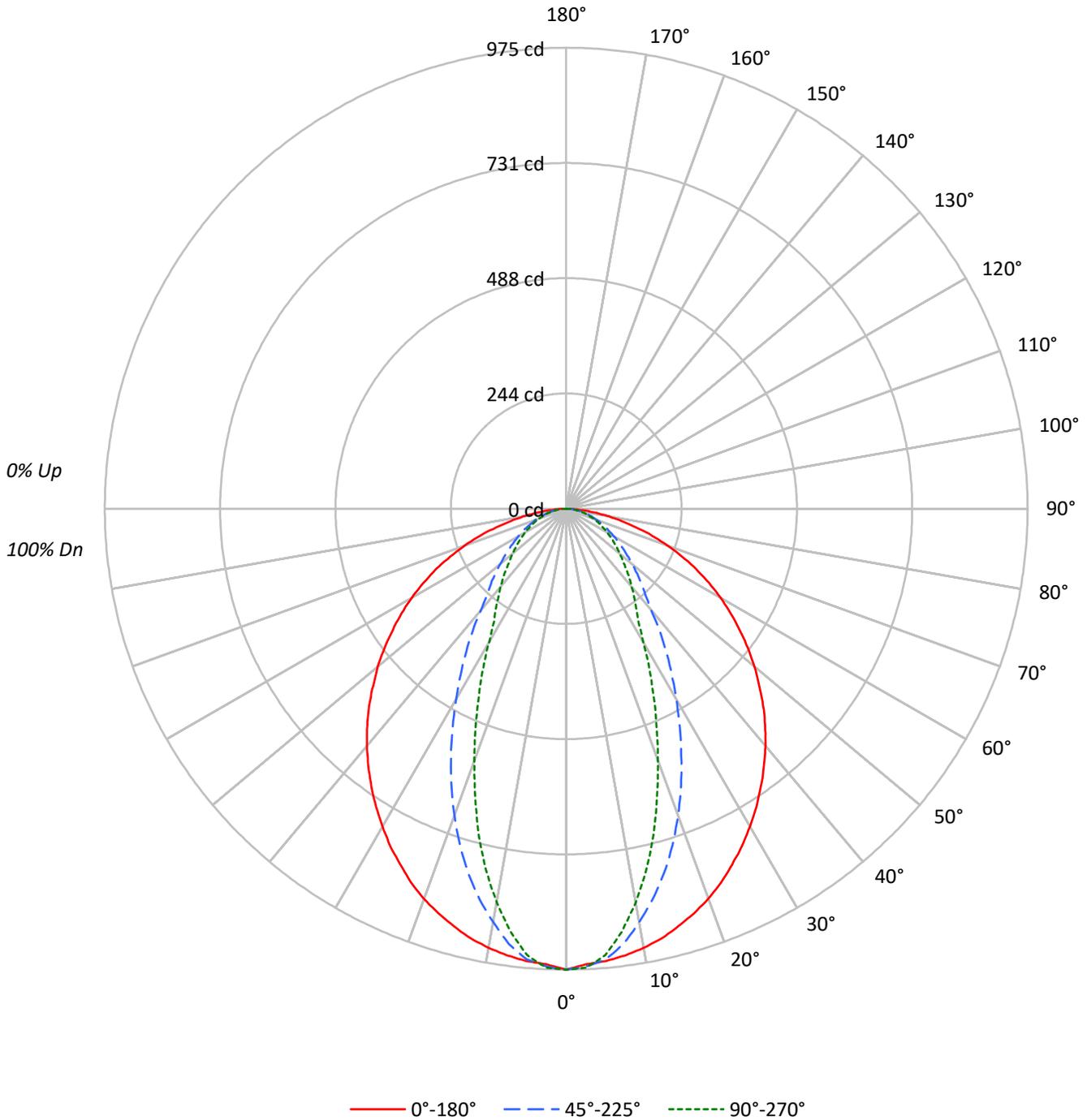
Lumens per Lamp: N/A
Luminaire Lumens: 1474.9 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.71 / 0.9
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
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: P1055241

CATALOG NUMBER: S122R3DR-S675D930-X4F0-XX-UDD-FLL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1055241

CATALOG NUMBER: S122R3DR-S675D930-X4F0-XX-UDD-FLL-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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87				87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				75
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66				66
4	87	76	69	63	85	75	68	62	73	66	61	71	65	61	68	64	60	58				58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	54	52				52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46				46
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18474	18474	18474
5°	18265	18204	18033
10°	18147	17082	16266
15°	17943	15656	13993
20°	17704	13924	11424
25°	17351	12033	9119
30°	16981	10166	7117
35°	16595	8504	5976
40°	16192	6895	5322
45°	15771	6029	4761
50°	15306	5335	4350
55°	14785	4819	4040
60°	14274	4388	3770
65°	13597	4021	3546
70°	12602	3750	3340
75°	11163	3404	3162
80°	9514	3208	2935
85°	6565	2826	2652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15771 cd/sqm



TEST NUMBER: P1055241

CATALOG NUMBER: S122R3DR-S675D930-X4F0-XX-UDD-FLL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	6.1
10°-20°	225.6	15.3
20°-30°	278.0	18.8
30°-40°	266.7	18.1
40°-50°	230.0	15.6
50°-60°	178.5	12.1
60°-70°	122.2	8.3
70°-80°	66.4	4.5
80°-90°	18.2	1.2
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°	592.9	40.2
0°-40°	859.6	58.3
0°-60°	1268.2	86.0
0°-90°	1474.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1474.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	960	974	957	945	948	91
15°	915	887	798	733	713	258
25°	830	741	576	470	436	383
35°	718	569	368	274	258	449
45°	589	396	225	186	178	454
55°	448	238	146	126	122	401
65°	303	130	90	82	79	299
75°	152	60	46	44	43	163
85°	30	15	13	13	12	38
90°	0	0	0	0	0	



TEST NUMBER: P1055241

CATALOG NUMBER: S122R3DR-S675D930-X4F0-XX-UDD-FLL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.1	975.1	975.1	975.1	975.1
2.5°	964.5	980.8	969.4	969.4	971.8
5°	960.4	974.3	957.2	944.9	948.2
7.5°	953.1	962.9	928.6	902.5	901.7
10°	943.3	944.1	887.9	853.6	845.5
12.5°	931.1	918.0	846.3	794.9	782.7
15°	914.8	887.0	798.2	733.0	713.4
17.5°	897.6	855.2	746.8	665.3	638.4
20°	878.1	816.9	690.6	597.6	566.6
22.5°	856.1	780.2	634.3	532.4	499.8
25°	830.0	741.1	575.6	469.6	436.2
27.5°	804.7	701.2	519.3	414.2	379.9
30°	776.2	657.9	464.7	361.2	325.3
32.5°	747.6	613.9	414.2	310.6	283.7
35°	717.5	569.1	367.7	273.9	258.4
37.5°	686.5	525.1	323.7	249.5	235.6
40°	654.7	481.0	278.8	225.8	215.2
42.5°	622.1	437.8	247.9	206.3	196.5
45°	588.6	396.2	225.0	185.9	177.7
47.5°	552.8	354.7	203.0	168.8	161.4
50°	519.3	314.7	181.0	153.3	147.6
52.5°	483.5	275.6	163.1	139.4	134.5
55°	447.6	238.1	145.9	126.4	122.3
57.5°	412.5	202.2	129.6	114.1	110.9
60°	376.7	173.7	115.8	102.7	99.5
62.5°	340.0	150.8	102.7	92.1	88.9
65°	303.3	129.6	89.7	81.5	79.1
67.5°	265.0	109.2	78.3	71.7	70.1
70°	227.5	91.3	67.7	62.0	60.3
72.5°	190.8	74.2	57.1	53.0	51.4
75°	152.5	59.5	46.5	44.0	43.2
77.5°	119.0	46.5	37.5	35.9	35.1
80°	87.2	34.2	29.4	27.7	26.9
82.5°	57.9	23.6	21.2	20.4	19.6
85°	30.2	14.7	13.0	13.0	12.2
87.5°	9.8	6.5	6.5	6.5	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)