

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: P1055238

Luminaire Tested: S122R3DR-S675D927-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055238
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-S675D927-X4F0-XX-UDD-FLL-W
Description: DEFINE 2, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

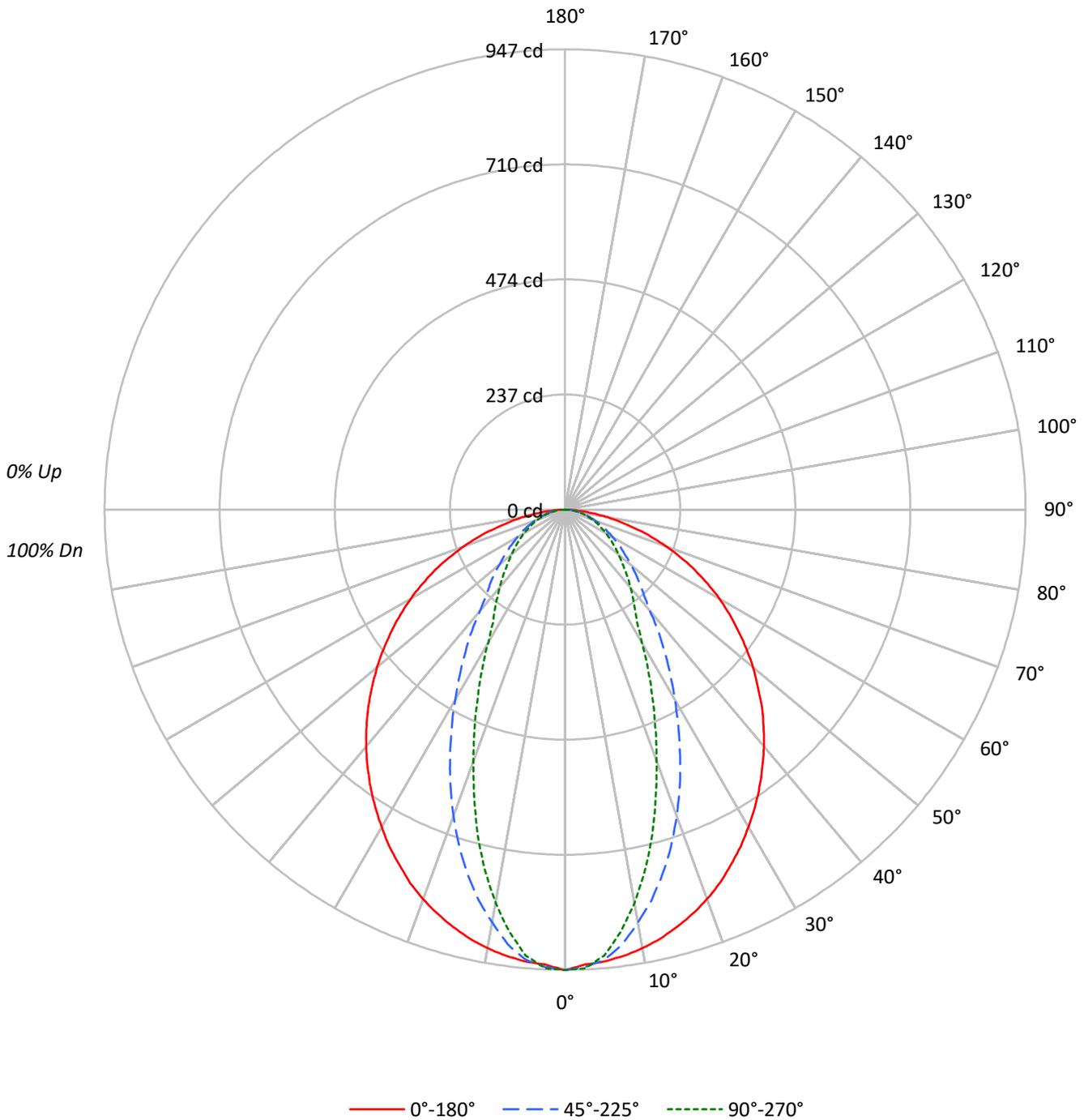
Lumens per Lamp: N/A
Luminaire Lumens: 1433.1 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.71 / 0.9
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17949	17949	17949
5°	17748	17687	17521
10°	17634	16597	15804
15°	17433	15211	13597
20°	17202	13529	11101
25°	16857	11692	8859
30°	16499	9877	6915
35°	16123	8264	5808
40°	15732	6700	5171
45°	15326	5857	4627
50°	14873	5185	4227
55°	14365	4684	3924
60°	13868	4263	3660
65°	13211	3905	3443
70°	12242	3645	3246
75°	10841	3309	3074
80°	9252	3109	2848
85°	6369	2761	2587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15326 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	6.1
10°-20°	219.2	15.3
20°-30°	270.1	18.8
30°-40°	259.1	18.1
40°-50°	223.5	15.6
50°-60°	173.4	12.1
60°-70°	118.7	8.3
70°-80°	64.5	4.5
80°-90°	17.7	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°	576.1	40.2
0°-40°	835.3	58.3
0°-60°	1232.2	86.0
0°-90°	1433.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1433.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	933	947	930	918	921	89
15°	889	862	776	712	693	251
25°	806	720	559	456	424	372
35°	697	553	357	266	251	436
45°	572	385	219	181	173	441
55°	435	231	142	123	119	389
65°	295	126	87	79	77	291
75°	148	58	45	43	42	159
85°	29	14	13	13	12	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.4	947.4	947.4	947.4	947.4
2.5°	937.2	953.0	941.9	941.9	944.3
5°	933.2	946.7	930.0	918.1	921.3
7.5°	926.1	935.6	902.3	876.9	876.2
10°	916.6	917.3	862.7	829.4	821.5
12.5°	904.7	892.0	822.3	772.4	760.5
15°	888.8	861.9	775.5	712.2	693.2
17.5°	872.2	831.0	725.6	646.4	620.3
20°	853.2	793.8	671.0	580.7	550.6
22.5°	831.8	758.1	616.3	517.3	485.6
25°	806.4	720.1	559.3	456.3	423.8
27.5°	781.9	681.3	504.6	402.4	369.2
30°	754.2	639.3	451.5	350.9	316.1
32.5°	726.4	596.5	402.4	301.8	275.7
35°	697.1	552.9	357.3	266.2	251.1
37.5°	667.0	510.2	314.5	242.4	228.9
40°	636.1	467.4	270.9	219.4	209.1
42.5°	604.4	425.4	240.8	200.4	190.9
45°	572.0	385.0	218.6	180.6	172.7
47.5°	537.1	344.6	197.3	164.0	156.9
50°	504.6	305.8	175.9	148.9	143.4
52.5°	469.8	267.8	158.4	135.5	130.7
55°	434.9	231.3	141.8	122.8	118.8
57.5°	400.8	196.5	126.0	110.9	107.7
60°	366.0	168.7	112.5	99.8	96.6
62.5°	330.3	146.6	99.8	89.5	86.3
65°	294.7	126.0	87.1	79.2	76.8
67.5°	257.5	106.2	76.0	69.7	68.1
70°	221.0	88.7	65.8	60.2	58.6
72.5°	185.4	72.1	55.5	51.5	49.9
75°	148.1	57.8	45.2	42.8	42.0
77.5°	115.7	45.2	36.4	34.9	34.1
80°	84.8	33.3	28.5	26.9	26.1
82.5°	56.2	23.0	20.6	19.8	19.0
85°	29.3	14.3	12.7	12.7	11.9
87.5°	9.5	6.3	6.3	6.3	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)