

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: P1055240

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-3)
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-S
Description: DEFINE 2, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

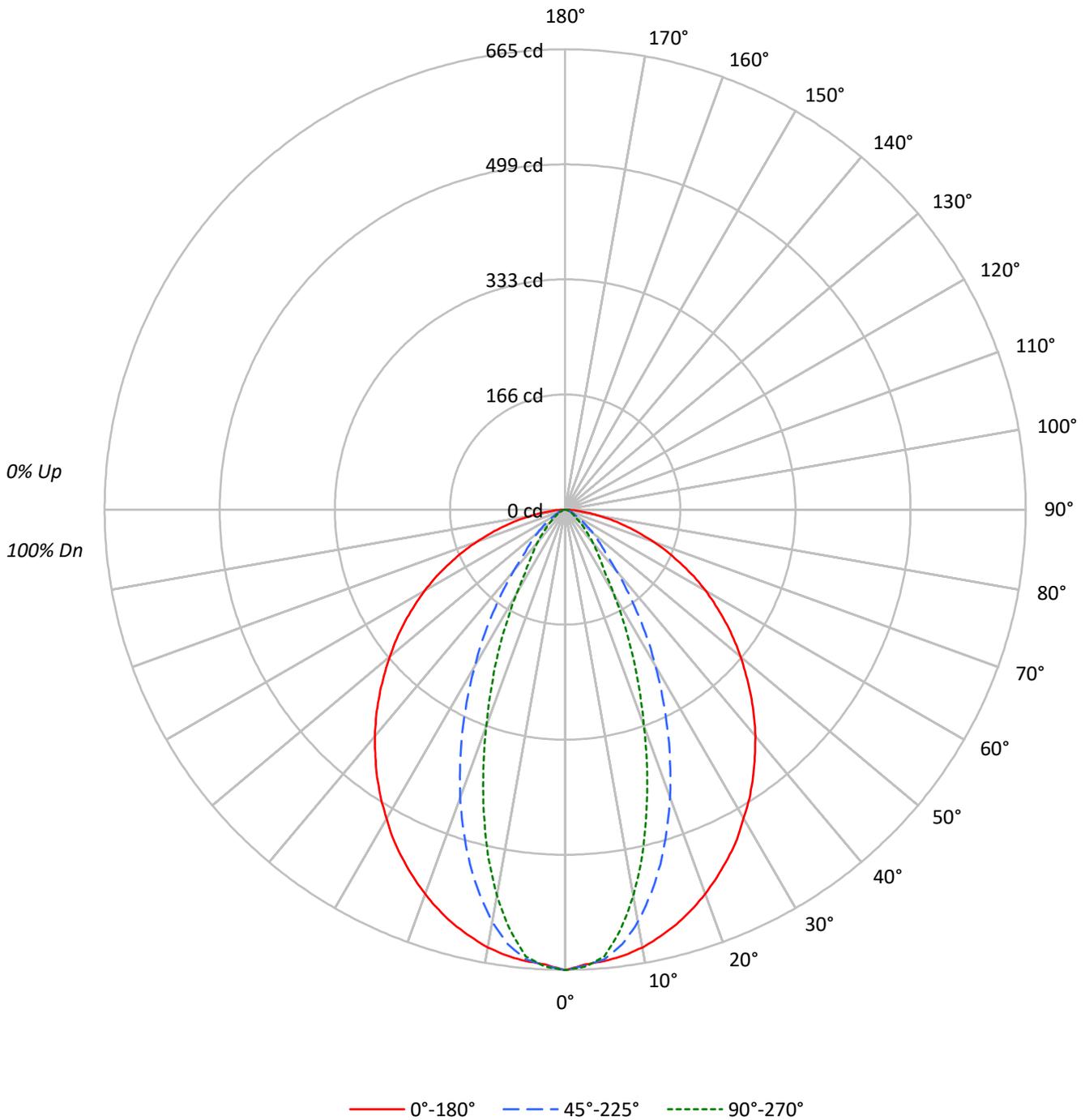
Lumens per Lamp: N/A
Luminaire Lumens: 762.4 lumens
Efficiency: N/A
Efficacy: 28.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.64 / 0.81
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

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	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71				
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53				
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45				
9	67	56	49	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12605	12605	12605
5°	12451	12404	12328
10°	12360	11639	10900
15°	12169	10411	8891
20°	11918	8926	6706
25°	11623	7312	4789
30°	11273	5708	3050
35°	10938	4186	2038
40°	10566	2822	1533
45°	10157	1988	1093
50°	9732	1515	769
55°	9318	1050	565
60°	8867	712	462
65°	8222	511	368
70°	7495	404	316
75°	6508	359	242
80°	5161	262	262
85°	2826	348	174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10157 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	8.0
10°-20°	149.3	19.6
20°-30°	170.5	22.4
30°-40°	144.6	19.0
40°-50°	107.9	14.2
50°-60°	69.8	9.1
60°-70°	38.9	5.1
70°-80°	17.1	2.2
80°-90°	3.5	0.5
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°	380.7	49.9
0°-40°	525.3	68.9
0°-60°	703.0	92.2
0°-90°	762.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	762.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	655	663	652	646	648	62
15°	620	605	531	474	453	175
25°	556	491	350	256	229	256
35°	473	356	181	99	88	296
45°	379	225	74	48	41	293
55°	282	107	32	20	17	252
65°	183	39	11	9	8	182
75°	89	8	5	4	3	95
85°	13	1	2	1	1	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.3	665.3	665.3	665.3	665.3
2.5°	657.9	667.7	659.6	659.6	661.2
5°	654.7	662.8	652.2	645.7	648.2
7.5°	649.8	655.5	633.5	613.9	612.3
10°	642.5	644.9	605.0	574.8	566.6
12.5°	631.9	626.1	569.9	527.5	513.6
15°	620.4	605.0	530.8	474.5	453.3
17.5°	606.6	578.9	487.5	419.1	393.0
20°	591.1	552.0	442.7	361.2	332.6
22.5°	574.0	521.8	396.2	306.6	278.0
25°	556.0	490.8	349.8	256.0	229.1
27.5°	537.3	458.2	304.1	210.3	181.0
30°	515.3	424.8	260.9	166.3	139.4
32.5°	494.9	389.7	220.9	128.8	106.0
35°	472.9	356.3	181.0	98.7	88.1
37.5°	450.0	322.9	145.9	83.2	74.2
40°	427.2	289.4	114.1	70.1	62.0
42.5°	403.6	256.8	88.1	58.7	50.5
45°	379.1	225.0	74.2	48.1	40.8
47.5°	354.7	193.2	62.0	38.3	32.6
50°	330.2	163.1	51.4	30.2	26.1
52.5°	306.6	134.5	40.8	24.5	21.2
55°	282.1	106.8	31.8	19.6	17.1
57.5°	257.6	83.2	24.5	16.3	14.7
60°	234.0	62.8	18.8	13.0	12.2
62.5°	209.5	50.5	14.7	10.6	9.8
65°	183.4	39.1	11.4	9.0	8.2
67.5°	159.8	28.5	9.0	7.3	6.5
70°	135.3	19.6	7.3	6.5	5.7
72.5°	111.7	12.2	5.7	4.9	4.9
75°	88.9	8.2	4.9	4.1	3.3
77.5°	67.7	4.9	3.3	3.3	2.4
80°	47.3	3.3	2.4	2.4	2.4
82.5°	29.4	2.4	1.6	1.6	1.6
85°	13.0	0.8	1.6	0.8	0.8
87.5°	2.4	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)