

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: P1055249

Luminaire Tested: S122R3DR-S675D950-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1055249  
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-S675D950-X4F0-XX-UDD-FLL-S  
Description: DEFINE 2, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

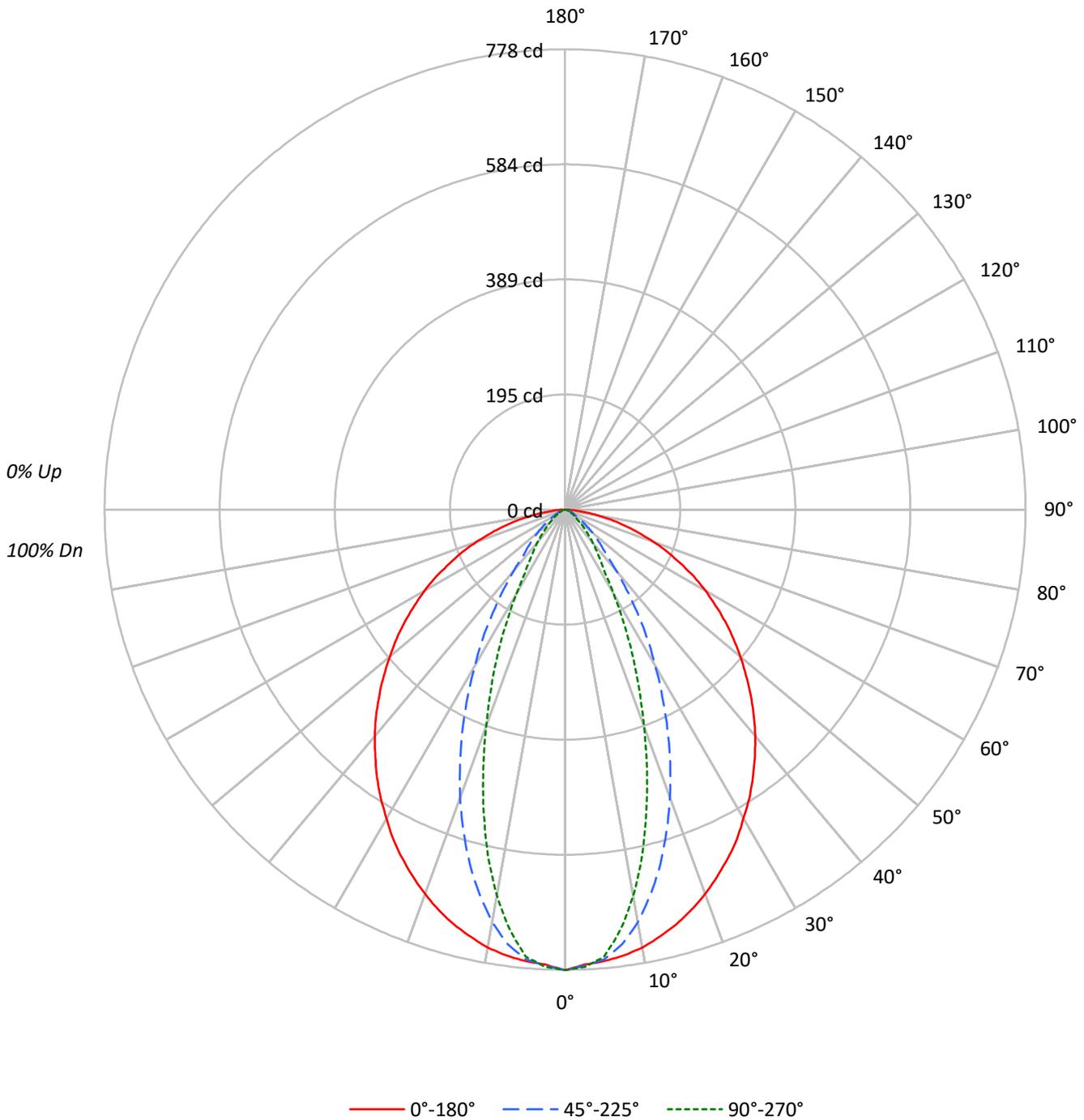
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 892.2 lumens  
Efficiency: N/A  
Efficacy: 33.8 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			100	
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90	
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80			80	
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71			71	
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58	
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53			53	
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49			49	
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45	
9	67	56	49	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42			42	
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39			39	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	14749	14749	14749
5°	14570	14515	14423
10°	14463	13619	12755
15°	14240	12182	10403
20°	13944	10444	7847
25°	13600	8556	5604
30°	13190	6679	3568
35°	12797	4899	2382
40°	12364	3304	1793
45°	11886	2326	1278
50°	11389	1771	899
55°	10904	1229	661
60°	10375	830	542
65°	9620	601	426
70°	8774	476	371
75°	7613	417	278
80°	6033	316	316
85°	3326	413	217

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11886 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	8.0
10°-20°	174.7	19.6
20°-30°	199.6	22.4
30°-40°	169.2	19.0
40°-50°	126.3	14.2
50°-60°	81.6	9.1
60°-70°	45.5	5.1
70°-80°	20.0	2.2
80°-90°	4.2	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°	445.4	49.9
0°-40°	614.6	68.9
0°-60°	822.5	92.2
0°-90°	892.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	892.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	766	776	763	756	758	73
15°	726	708	621	555	530	204
25°	651	574	409	300	268	299
35°	553	417	212	115	103	346
45°	444	263	87	56	48	342
55°	330	125	37	23	20	295
65°	215	46	13	10	10	213
75°	104	10	6	5	4	111
85°	15	1	2	1	1	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	778.5	778.5	778.5	778.5	778.5
2.5°	769.9	781.3	771.8	771.8	773.7
5°	766.1	775.6	763.2	755.6	758.4
7.5°	760.3	767.0	741.3	718.4	716.5
10°	751.8	754.6	707.9	672.6	663.0
12.5°	739.3	732.7	666.8	617.2	601.0
15°	726.0	707.9	621.1	555.2	530.4
17.5°	709.8	677.3	570.5	490.4	459.8
20°	691.6	645.9	518.0	422.6	389.2
22.5°	671.6	610.6	463.6	358.7	325.3
25°	650.6	574.3	409.3	299.6	268.1
27.5°	628.7	536.1	355.8	246.1	211.8
30°	602.9	497.0	305.3	194.6	163.1
32.5°	579.1	456.0	258.5	150.7	124.0
35°	553.3	416.9	211.8	115.4	103.0
37.5°	526.6	377.8	170.8	97.3	86.8
40°	499.9	338.7	133.6	82.0	72.5
42.5°	472.2	300.5	103.0	68.7	59.1
45°	443.6	263.3	86.8	56.3	47.7
47.5°	415.0	226.1	72.5	44.8	38.2
50°	386.4	190.8	60.1	35.3	30.5
52.5°	358.7	157.4	47.7	28.6	24.8
55°	330.1	125.0	37.2	22.9	20.0
57.5°	301.5	97.3	28.6	19.1	17.2
60°	273.8	73.5	21.9	15.3	14.3
62.5°	245.2	59.1	17.2	12.4	11.4
65°	214.6	45.8	13.4	10.5	9.5
67.5°	187.0	33.4	10.5	8.6	7.6
70°	158.4	22.9	8.6	7.6	6.7
72.5°	130.7	14.3	6.7	5.7	5.7
75°	104.0	9.5	5.7	4.8	3.8
77.5°	79.2	5.7	3.8	3.8	2.9
80°	55.3	3.8	2.9	2.9	2.9
82.5°	34.3	2.9	1.9	1.9	1.9
85°	15.3	1.0	1.9	1.0	1.0
87.5°	2.9	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)