

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: P1055228

Luminaire Tested: S122R3DR-S675D835-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1055228  
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-S675D835-X4F0-XX-UDD-FLL-S  
Description: DEFINE 2, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

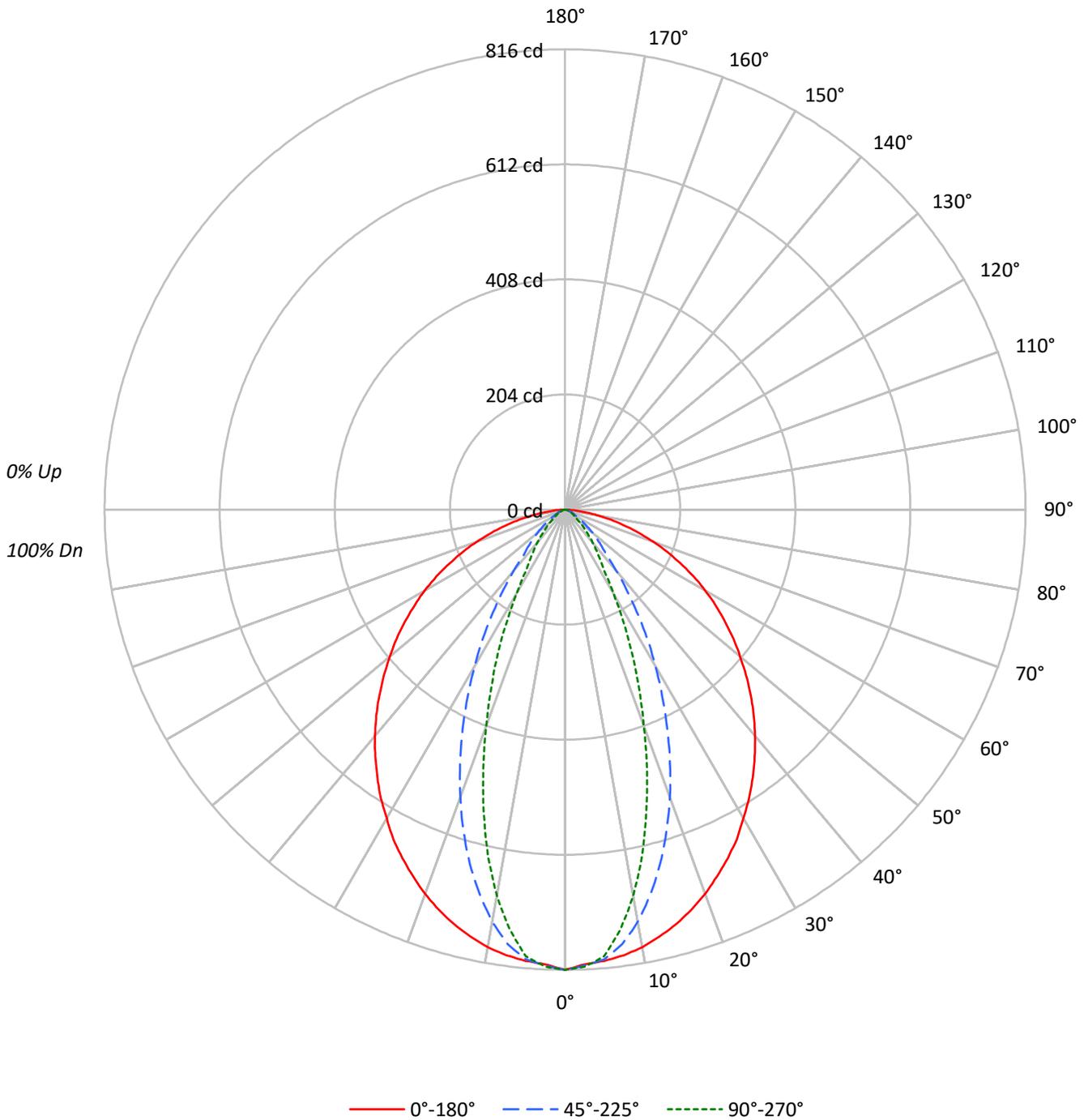
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 935.2 lumens  
Efficiency: N/A  
Efficacy: 35.4 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°	15460	15460	15460
5°	15272	15215	15119
10°	15160	14275	13370
15°	14926	12769	10905
20°	14617	10948	8226
25°	14257	8968	5874
30°	13826	7001	3741
35°	13415	5135	2498
40°	12960	3462	1880
45°	12459	2438	1340
50°	11937	1857	943
55°	11429	1288	694
60°	10875	872	568
65°	10087	628	448
70°	9195	499	388
75°	7979	439	293
80°	6328	327	327
85°	3478	435	217

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12459 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	8.0
10°-20°	183.1	19.6
20°-30°	209.2	22.4
30°-40°	177.4	19.0
40°-50°	132.4	14.2
50°-60°	85.5	9.1
60°-70°	47.7	5.1
70°-80°	20.9	2.2
80°-90°	4.3	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°	466.9	49.9
0°-40°	644.3	68.9
0°-60°	862.2	92.2
0°-90°	935.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	935.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	803	813	800	792	795	76
15°	761	742	651	582	556	214
25°	682	602	429	314	281	314
35°	580	437	222	121	108	363
45°	465	276	91	59	50	359
55°	346	131	39	24	21	309
65°	225	48	14	11	10	224
75°	109	10	6	5	4	116
85°	16	1	2	1	1	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	816	816	816	816	816
2.5°	807	819	809	809	811
5°	803	813	800	792	795
7.5°	797	804	777	753	751
10°	788	791	742	705	695
12.5°	775	768	699	647	630
15°	761	742	651	582	556
17.5°	744	710	598	514	482
20°	725	677	543	443	408
22.5°	704	640	486	376	341
25°	682	602	429	314	281
27.5°	659	562	373	258	222
30°	632	521	320	204	171
32.5°	607	478	271	158	130
35°	580	437	222	121	108
37.5°	552	396	179	102	91
40°	524	355	140	86	76
42.5°	495	315	108	72	62
45°	465	276	91	59	50
47.5°	435	237	76	47	40
50°	405	200	63	37	32
52.5°	376	165	50	30	26
55°	346	131	39	24	21
57.5°	316	102	30	20	18
60°	287	77	23	16	15
62.5°	257	62	18	13	12
65°	225	48	14	11	10
67.5°	196	35	11	9	8
70°	166	24	9	8	7
72.5°	137	15	7	6	6
75°	109	10	6	5	4
77.5°	83	6	4	4	3
80°	58	4	3	3	3
82.5°	36	3	2	2	2
85°	16	1	2	1	1
87.5°	3	1	1	1	1
90°	0	0	0	0	0

(END OF REPORT)