

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: P1055673

Luminaire Tested: S123R3DR-S775D930-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1055673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/25/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123R3DR-S775D930-X4F0-XX-UDD-FLL-W  
Description: DEFINE 3, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

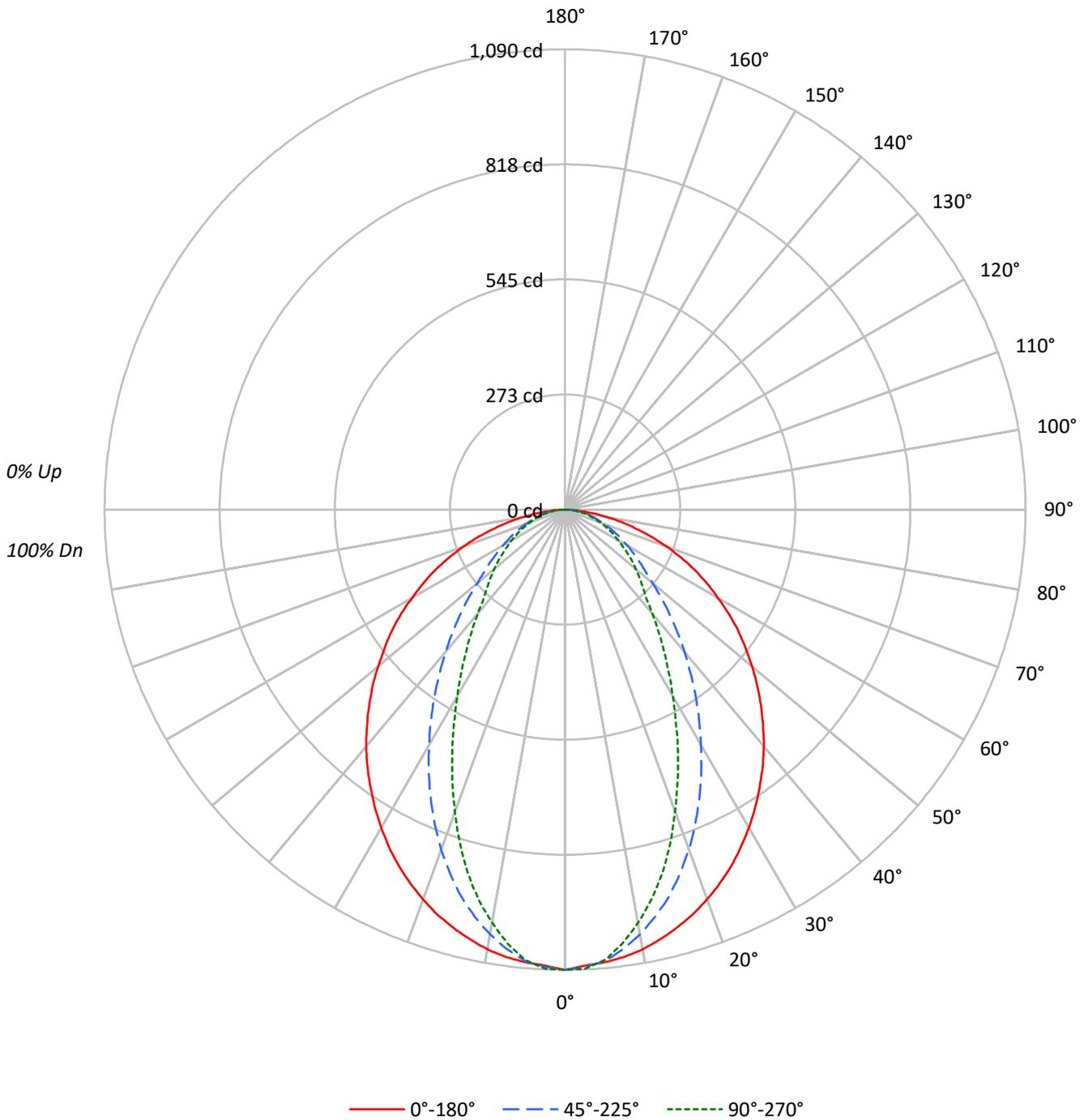
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1911.8 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.83 / 1.02  
Luminous Opening: Rectangular (W 0.23' 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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74				
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65				
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57				
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50				
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45				
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40				
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	39	37				
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34				
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31				

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

	0°	45°	90°
0°	13143	13143	13143
5°	13025	12994	12965
10°	12945	12507	12166
15°	12791	11845	11112
20°	12604	10994	9770
25°	12386	10010	8406
30°	12110	8956	7106
35°	11820	7920	5999
40°	11522	6916	5043
45°	11176	5964	4448
50°	10826	5077	4083
55°	10506	4523	3771
60°	10065	4090	3518
65°	9651	3746	3304
70°	8996	3448	3106
75°	8049	3191	2925
80°	6908	2944	2715
85°	4855	2711	2601

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11176 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.0	5.3
10°-20°	267.3	14.0
20°-30°	352.2	18.4
30°-40°	357.4	18.7
40°-50°	310.7	16.3
50°-60°	243.4	12.7
60°-70°	165.4	8.7
70°-80°	89.6	4.7
80°-90°	24.7	1.3
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°	720.5	37.7
0°-40°	1078.0	56.4
0°-60°	1632.1	85.4
0°-90°	1911.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1911.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1076	1089	1074	1064	1071	102
15°	1025	1010	949	902	890	289
25°	931	875	752	659	632	429
35°	803	708	538	435	408	502
45°	656	526	350	270	261	506
55°	500	347	215	183	179	446
65°	338	188	131	117	116	334
75°	173	86	68	64	63	184
85°	35	21	20	18	19	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1090.1	1090.1	1090.1	1090.1	1090.1
2.5°	1081.1	1094.9	1084.3	1085.2	1088.4
5°	1076.2	1089.2	1073.7	1064.0	1071.3
7.5°	1068.9	1078.6	1050.1	1034.6	1037.1
10°	1057.4	1060.7	1021.6	997.1	993.8
12.5°	1042.0	1036.2	987.3	951.5	945.7
15°	1024.8	1010.2	949.0	902.5	890.3
17.5°	1005.3	980.8	904.2	847.1	828.3
20°	982.4	948.2	856.9	784.3	761.5
22.5°	958.0	913.9	805.5	719.9	696.3
25°	931.1	874.8	752.5	658.8	631.9
27.5°	901.7	835.7	698.7	598.4	568.3
30°	869.9	794.9	643.3	539.7	510.4
32.5°	837.3	751.7	590.3	485.1	456.6
35°	803.1	707.7	538.1	435.4	407.6
37.5°	768.0	662.8	487.5	388.1	362.0
40°	732.1	617.2	439.4	344.1	320.4
42.5°	693.8	571.5	393.0	302.5	284.5
45°	655.5	525.9	349.8	269.9	260.9
47.5°	617.2	479.4	309.0	247.0	238.9
50°	577.2	434.6	270.7	225.8	217.7
52.5°	538.1	390.5	238.9	205.5	199.7
55°	499.8	347.3	215.2	183.4	179.4
57.5°	459.8	304.9	191.6	166.3	161.4
60°	417.4	264.2	169.6	148.4	145.9
62.5°	379.1	225.8	150.0	132.9	130.4
65°	338.3	187.5	131.3	117.4	115.8
67.5°	296.8	155.7	114.1	102.7	101.9
70°	255.2	131.3	97.8	88.9	88.1
72.5°	214.4	108.4	82.3	76.6	75.0
75°	172.8	86.4	68.5	63.6	62.8
77.5°	135.3	66.9	54.6	51.4	50.5
80°	99.5	49.7	42.4	39.9	39.1
82.5°	65.2	34.2	30.2	28.5	28.5
85°	35.1	21.2	19.6	17.9	18.8
87.5°	12.2	9.0	9.0	8.2	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)