

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: P1055561

Luminaire Tested: S123R3DR-S1000D927-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123R3DR-S1000D927-X4F0-XX-UDD-FLL-S
Description: DEFINE 3, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

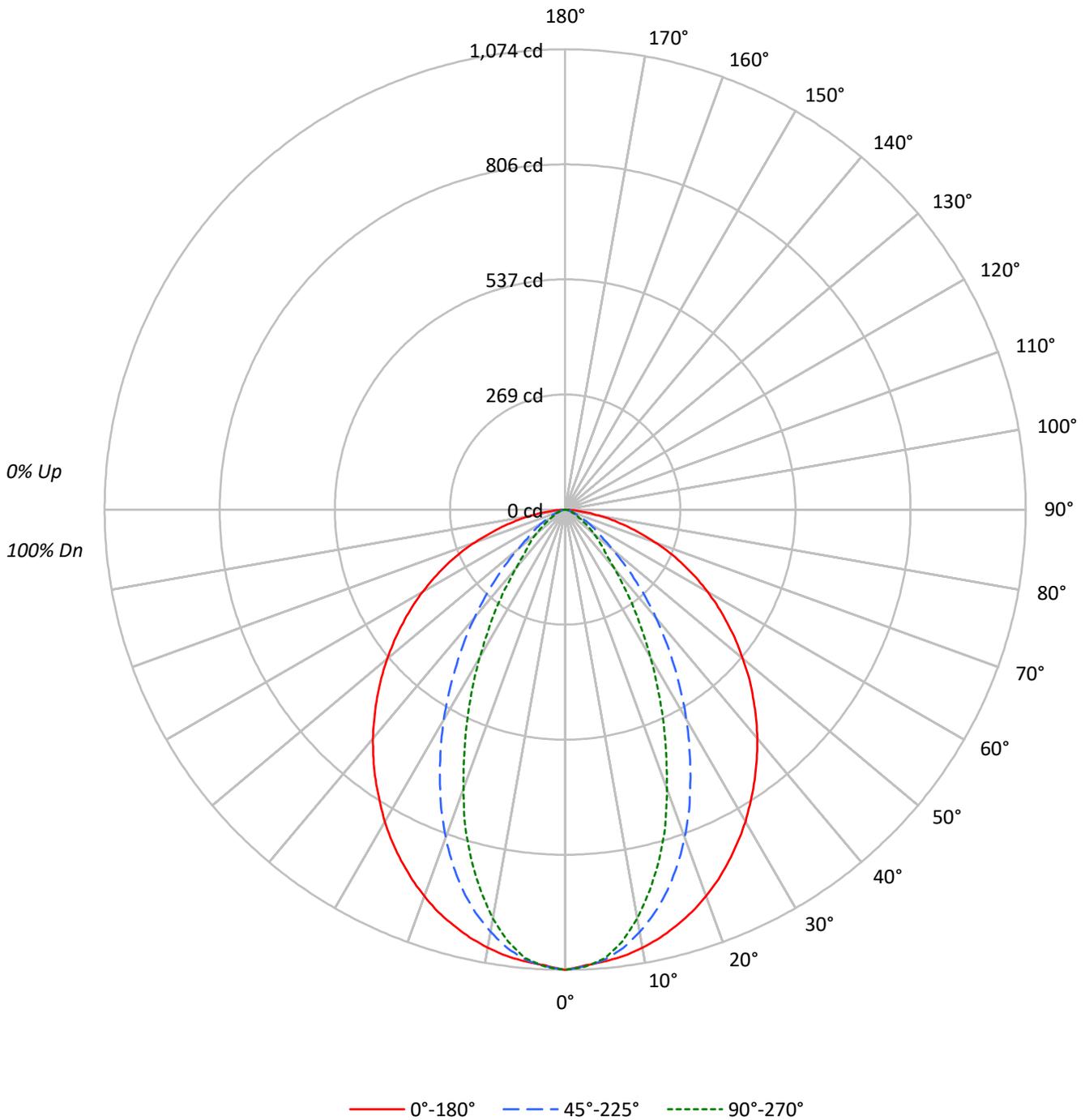
Lumens per Lamp: N/A
Luminaire Lumens: 1493.6 lumens
Efficiency: N/A
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 0.77 / 0.94
Luminous Opening: Rectangular (W 0.23' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	78	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39				39
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12949	12949	12949
5°	12813	12764	12727
10°	12713	12251	11864
15°	12542	11487	10560
20°	12317	10449	8895
25°	12026	9195	7177
30°	11707	7880	5527
35°	11342	6502	4090
40°	10974	5175	2787
45°	10571	3870	2101
50°	10140	2692	1641
55°	9694	1970	1198
60°	9230	1473	858
65°	8684	987	668
70°	7857	719	539
75°	6782	522	429
80°	5443	424	354
85°	2822	429	277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10571 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	6.6
10°-20°	258.4	17.3
20°-30°	324.7	21.7
30°-40°	302.4	20.2
40°-50°	231.5	15.5
50°-60°	153.9	10.3
60°-70°	83.0	5.6
70°-80°	34.0	2.3
80°-90°	6.5	0.4
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°	682.4	45.7
0°-40°	984.8	65.9
0°-60°	1370.2	91.7
0°-90°	1493.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1493.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1059	1070	1055	1051	1052	100
15°	1005	988	920	866	846	283
25°	904	843	691	576	540	416
35°	771	657	442	312	278	482
45°	620	458	227	133	123	478
55°	461	267	94	65	57	413
65°	304	103	35	26	23	301
75°	146	24	11	10	9	156
85°	20	3	3	3	2	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074.0	1074.0	1074.0	1074.0	1074.0
2.5°	1064.8	1078.1	1066.9	1067.9	1067.9
5°	1058.7	1069.9	1054.7	1050.6	1051.6
7.5°	1050.6	1057.7	1032.3	1019.0	1017.0
10°	1038.4	1040.4	1000.7	977.3	969.1
12.5°	1023.1	1016.0	964.0	925.4	910.1
15°	1004.8	988.5	920.3	866.3	846.0
17.5°	984.4	956.9	870.4	800.1	775.7
20°	960.0	921.3	814.4	726.9	693.3
22.5°	933.5	883.6	755.4	651.5	613.9
25°	904.0	842.9	691.2	576.2	539.5
27.5°	873.4	799.1	628.1	504.9	467.3
30°	840.9	754.3	566.0	435.7	397.0
32.5°	805.2	705.5	501.9	371.6	332.9
35°	770.6	656.6	441.8	312.5	277.9
37.5°	734.0	607.7	383.8	260.6	221.9
40°	697.3	557.9	328.8	209.7	177.1
42.5°	658.6	508.0	276.9	167.0	141.5
45°	620.0	458.1	227.0	133.4	123.2
47.5°	581.3	408.2	183.2	115.0	104.9
50°	540.6	360.4	143.5	97.7	87.5
52.5°	501.9	312.5	112.0	80.4	71.3
55°	461.2	266.7	93.7	65.2	57.0
57.5°	423.5	219.9	77.4	50.9	44.8
60°	382.8	178.2	61.1	39.7	35.6
62.5°	344.1	139.5	46.8	31.6	28.5
65°	304.4	102.8	34.6	25.5	23.4
67.5°	264.7	74.3	26.5	20.4	19.3
70°	222.9	56.0	20.4	16.3	15.3
72.5°	183.2	39.7	15.3	13.2	12.2
75°	145.6	24.4	11.2	10.2	9.2
77.5°	112.0	14.3	8.1	8.1	7.1
80°	78.4	8.1	6.1	6.1	5.1
82.5°	47.8	5.1	4.1	4.1	4.1
85°	20.4	3.1	3.1	3.1	2.0
87.5°	3.1	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)