

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: P1055565

Luminaire Tested: S123R3DR-S1000D930-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055565
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-S1000D930-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

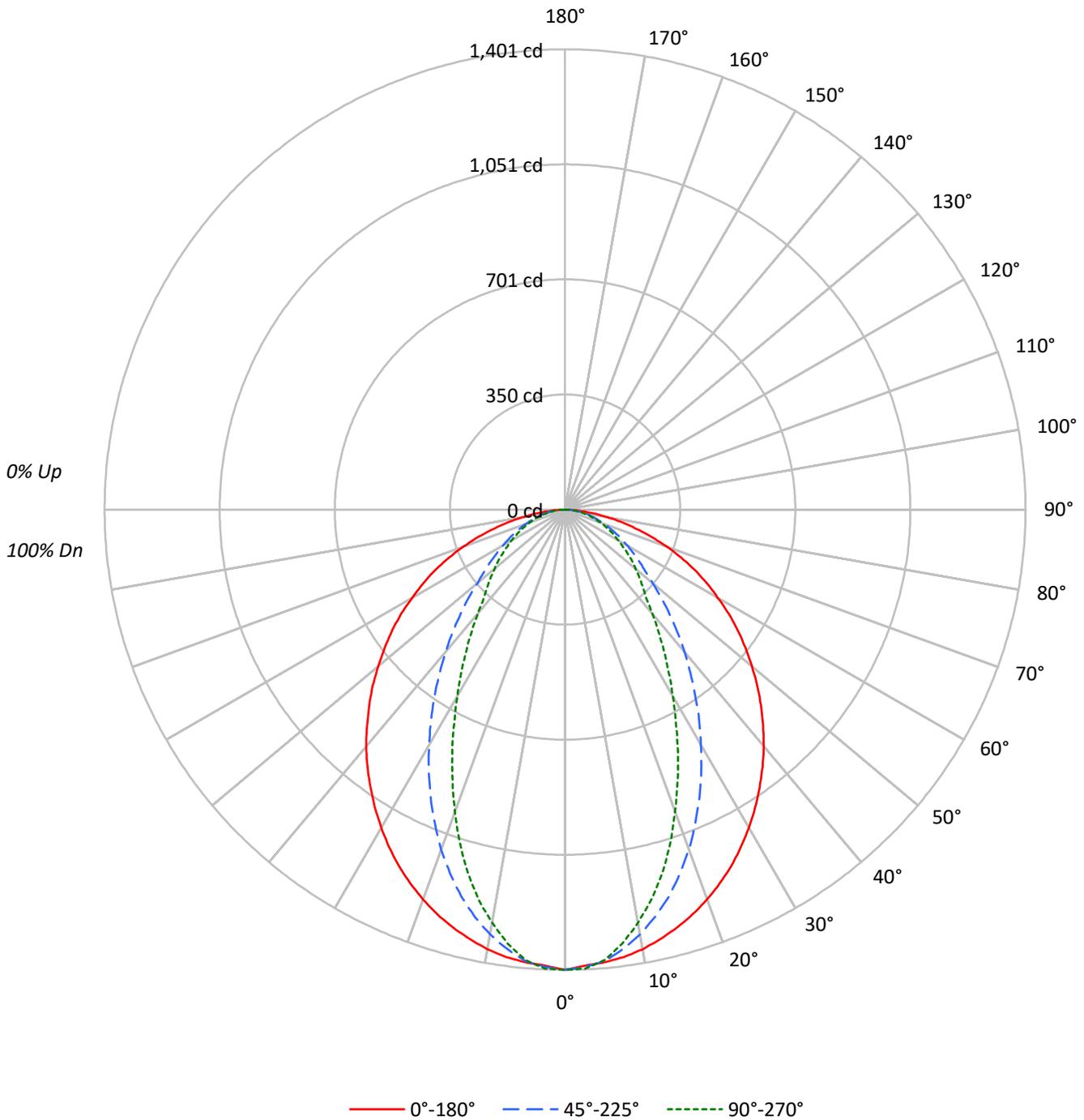
Lumens per Lamp: N/A
Luminaire Lumens: 2456.7 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.83 / 1.02
Luminous Opening: Rectangular (W 0.23' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			86	
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74			74	
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65			65	
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57			57	
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50			50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45			45	
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40			40	
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	39	37			37	
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34			34	
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			31	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16889	16889	16889
5°	16738	16699	16661
10°	16636	16072	15636
15°	16438	15221	14280
20°	16198	14127	12556
25°	15917	12864	10802
30°	15563	11508	9131
35°	15189	10178	7711
40°	14807	8888	6481
45°	14363	7664	5717
50°	13914	6523	5246
55°	13499	5814	4845
60°	12934	5254	4521
65°	12404	4813	4245
70°	11559	4431	3990
75°	10346	4099	3759
80°	8873	3784	3492
85°	6239	3472	3334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14363 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	5.3
10°-20°	343.5	14.0
20°-30°	452.6	18.4
30°-40°	459.3	18.7
40°-50°	399.3	16.3
50°-60°	312.8	12.7
60°-70°	212.5	8.7
70°-80°	115.2	4.7
80°-90°	31.7	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°	925.9	37.7
0°-40°	1385.3	56.4
0°-60°	2097.3	85.4
0°-90°	2456.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1383	1400	1380	1367	1377	131
15°	1317	1298	1220	1160	1144	371
25°	1196	1124	967	846	812	551
35°	1032	909	692	560	524	646
45°	842	676	450	347	335	650
55°	642	446	277	236	230	573
65°	435	241	169	151	149	429
75°	222	111	88	82	81	237
85°	45	27	25	23	24	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1389.3	1407.1	1393.5	1394.5	1398.7
5°	1383.0	1399.7	1379.8	1367.3	1376.7
7.5°	1373.5	1386.1	1349.5	1329.5	1332.7
10°	1358.9	1363.1	1312.8	1281.3	1277.2
12.5°	1339.0	1331.6	1268.8	1222.7	1215.3
15°	1317.0	1298.1	1219.5	1159.8	1144.1
17.5°	1291.8	1260.4	1161.9	1088.6	1064.5
20°	1262.5	1218.5	1101.1	1007.9	978.6
22.5°	1231.1	1174.5	1035.1	925.1	894.7
25°	1196.5	1124.2	967.0	846.5	812.0
27.5°	1158.8	1073.9	897.9	769.0	730.3
30°	1117.9	1021.5	826.6	693.6	655.9
32.5°	1076.0	966.0	758.5	623.4	586.7
35°	1032.0	909.4	691.5	559.5	523.9
37.5°	986.9	851.8	626.5	498.7	465.2
40°	940.8	793.1	564.7	442.1	411.8
42.5°	891.6	734.4	505.0	388.7	365.7
45°	842.4	675.8	449.5	346.8	335.3
47.5°	793.1	616.1	397.1	317.5	307.0
50°	741.8	558.4	347.8	290.2	279.7
52.5°	691.5	501.9	307.0	264.0	256.7
55°	642.2	446.3	276.6	235.7	230.5
57.5°	590.9	391.8	246.2	213.7	207.4
60°	536.4	339.5	217.9	190.7	187.5
62.5°	487.2	290.2	192.8	170.8	167.6
65°	434.8	241.0	168.7	150.9	148.8
67.5°	381.4	200.1	146.7	132.0	131.0
70°	327.9	168.7	125.7	114.2	113.2
72.5°	275.5	139.3	105.8	98.5	96.4
75°	222.1	111.1	88.0	81.7	80.7
77.5°	173.9	85.9	70.2	66.0	65.0
80°	127.8	63.9	54.5	51.3	50.3
82.5°	83.8	44.0	38.8	36.7	36.7
85°	45.1	27.2	25.1	23.0	24.1
87.5°	15.7	11.5	11.5	10.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)