

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: P1056399

Luminaire Tested: S125R3DR-S1270D927-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/25/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125R3DR-S1270D927-X4F0-XX-UDD-FLL-W  
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

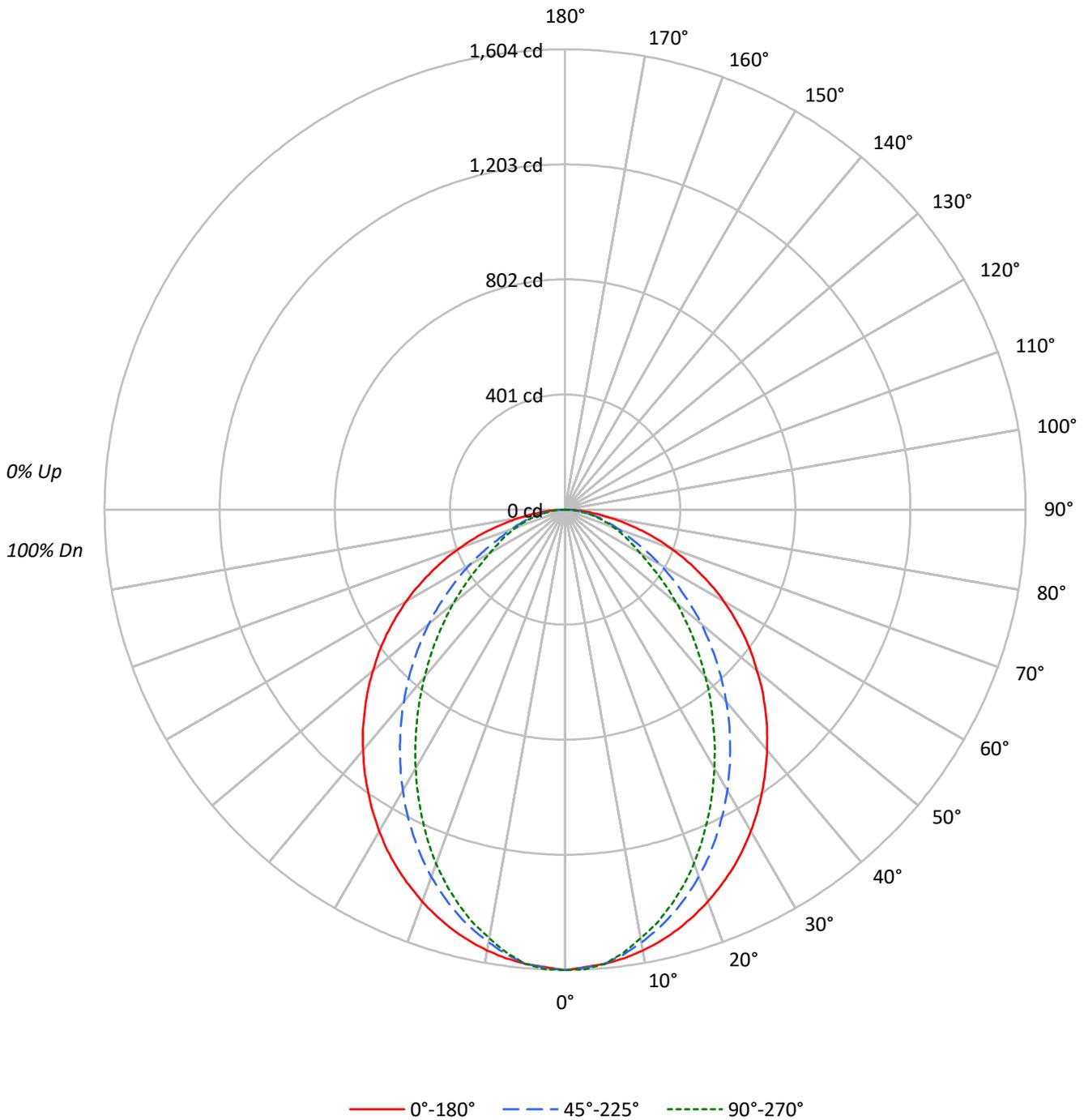
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3400.7 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17  
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.9  
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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86				
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43				
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38				
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34				
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28				

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

	0°	45°	90°
0°	11343	11343	11343
5°	11276	11268	11276
10°	11200	10994	10892
15°	11087	10659	10440
20°	10938	10246	9878
25°	10773	9757	9207
30°	10562	9226	8494
35°	10331	8651	7753
40°	10100	8059	7023
45°	9855	7441	6294
50°	9592	6807	5572
55°	9351	6111	4845
60°	9020	5371	4257
65°	8573	4557	3958
70°	8051	4074	3704
75°	7276	3753	3491
80°	6322	3403	3257
85°	4940	3001	3001

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9855 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.1	4.4
10°-20°	412.2	12.1
20°-30°	582.3	17.1
30°-40°	641.0	18.8
40°-50°	597.9	17.6
50°-60°	477.3	14.0
60°-70°	321.2	9.4
70°-80°	171.1	5.0
80°-90°	47.5	1.4
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°	1144.6	33.7
0°-40°	1785.6	52.5
0°-60°	2860.9	84.1
0°-90°	3400.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1589	1602	1588	1583	1589	151
15°	1515	1507	1456	1431	1426	427
25°	1381	1339	1251	1196	1180	636
35°	1197	1127	1002	924	898	749
45°	986	892	744	654	630	761
55°	759	644	496	417	393	677
65°	512	400	272	241	237	508
75°	266	177	137	129	128	284
85°	61	42	37	38	37	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1604.5	1604.5	1604.5	1604.5	1604.5
2.5°	1596.2	1609.3	1598.5	1600.9	1603.3
5°	1589.0	1602.1	1587.8	1583.0	1589.0
7.5°	1577.0	1587.8	1563.9	1553.2	1557.9
10°	1560.3	1567.5	1531.6	1517.3	1517.3
12.5°	1540.0	1540.0	1497.0	1476.7	1476.7
15°	1514.9	1506.6	1456.4	1431.3	1426.5
17.5°	1486.2	1470.7	1411.0	1378.7	1372.7
20°	1454.0	1428.9	1362.0	1320.2	1313.0
22.5°	1418.1	1385.9	1308.2	1256.9	1248.5
25°	1381.1	1339.3	1250.9	1195.9	1180.4
27.5°	1339.3	1289.1	1192.3	1130.2	1111.1
30°	1293.9	1236.5	1130.2	1060.9	1040.6
32.5°	1247.3	1182.8	1066.9	992.8	970.1
35°	1197.1	1126.6	1002.4	923.5	898.4
37.5°	1146.9	1070.5	939.1	856.6	830.3
40°	1094.4	1010.7	873.3	788.5	761.0
42.5°	1041.8	952.2	808.8	722.8	694.1
45°	985.7	892.5	744.3	653.5	629.6
47.5°	931.9	831.5	681.0	592.6	566.3
50°	872.2	768.2	618.9	530.5	506.6
52.5°	817.2	706.1	556.7	474.3	449.2
55°	758.7	644.0	495.8	417.0	393.1
57.5°	697.7	581.8	437.3	363.2	340.5
60°	638.0	519.7	379.9	311.8	301.1
62.5°	577.1	461.2	326.2	273.6	266.4
65°	512.5	400.2	272.4	241.3	236.6
67.5°	451.6	341.7	229.4	211.5	206.7
70°	389.5	283.2	197.1	181.6	179.2
72.5°	328.6	227.0	166.1	155.3	152.9
75°	266.4	176.8	137.4	129.0	127.8
77.5°	209.1	132.6	108.7	105.1	102.7
80°	155.3	99.2	83.6	81.2	80.0
82.5°	106.3	68.1	59.7	59.7	57.3
85°	60.9	41.8	37.0	38.2	37.0
87.5°	22.7	17.9	16.7	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)