

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: P1056410

Luminaire Tested: S125R3DR-S1270D950-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/25/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125R3DR-S1270D950-X4F0-XX-UDD-FLL-S  
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

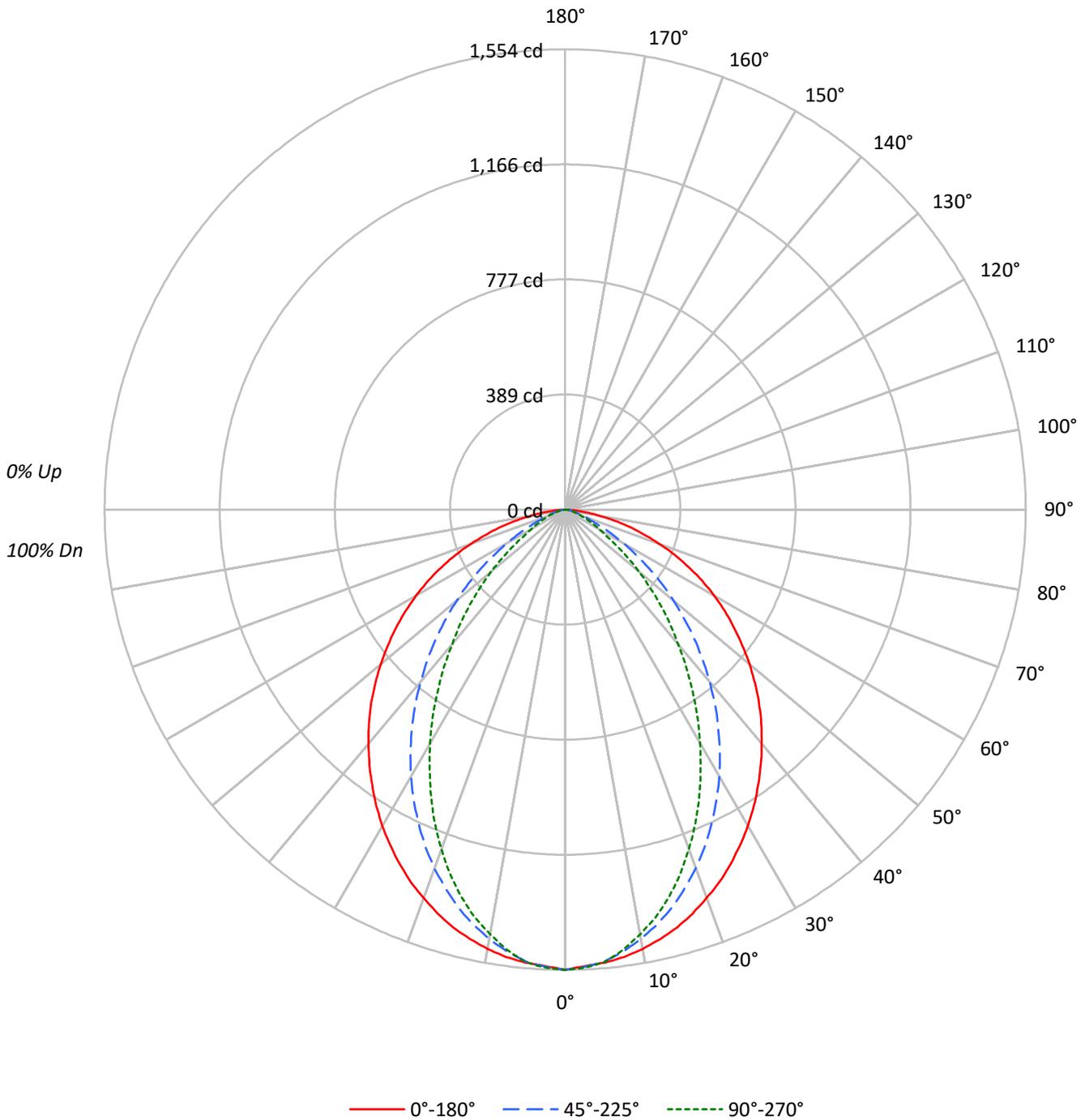
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2808.5 lumens  
Efficiency: N/A  
Efficacy: 67.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

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

	0°	45°	90°
0°	10985	10985	10985
5°	10894	10864	10884
10°	10814	10566	10452
15°	10688	10183	9909
20°	10499	9698	9179
25°	10302	9124	8350
30°	10065	8491	7434
35°	9797	7773	6469
40°	9520	6984	5471
45°	9249	6156	4531
50°	8925	5237	3560
55°	8583	4256	2589
60°	8198	3173	1851
65°	7701	2094	1444
70°	6959	1457	1011
75°	6053	942	787
80°	4743	704	643
85°	2450	584	470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9249 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.7	5.2
10°-20°	393.5	14.0
20°-30°	544.1	19.4
30°-40°	576.5	20.5
40°-50°	503.1	17.9
50°-60°	357.8	12.7
60°-70°	199.0	7.1
70°-80°	76.5	2.7
80°-90°	13.3	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°	1082.3	38.5
0°-40°	1658.8	59.1
0°-60°	2519.7	89.7
0°-90°	2808.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2808.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1535	1547	1531	1526	1534	146
15°	1460	1447	1391	1361	1354	411
25°	1321	1276	1170	1098	1070	608
35°	1135	1058	901	791	750	710
45°	925	814	616	492	453	713
55°	696	558	345	239	210	623
65°	460	302	125	92	86	455
75°	222	86	34	29	29	235
85°	30	9	7	6	6	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1553.9	1553.9	1553.9	1553.9	1553.9
2.5°	1542.4	1558.2	1545.2	1546.7	1548.1
5°	1535.2	1546.7	1530.9	1526.5	1533.7
7.5°	1523.7	1532.3	1505.0	1494.9	1499.2
10°	1506.4	1509.3	1471.9	1457.5	1456.0
12.5°	1484.8	1480.5	1434.5	1411.4	1410.0
15°	1460.4	1447.4	1391.3	1361.1	1353.9
17.5°	1430.1	1410.0	1340.9	1302.1	1290.6
20°	1395.6	1368.3	1289.1	1238.8	1220.1
22.5°	1361.1	1323.7	1231.6	1168.3	1148.1
25°	1320.8	1276.2	1169.7	1097.8	1070.5
27.5°	1277.6	1224.4	1106.4	1023.0	989.9
30°	1233.0	1171.2	1040.2	946.7	910.7
32.5°	1185.6	1115.1	971.2	869.0	831.6
35°	1135.2	1057.5	900.7	791.3	749.6
37.5°	1084.8	998.5	831.6	715.1	671.9
40°	1031.6	938.1	756.8	637.4	592.8
42.5°	979.8	876.2	686.3	564.0	523.7
45°	925.1	814.3	615.8	492.1	453.2
47.5°	869.0	749.6	545.3	424.4	385.6
50°	811.5	686.3	476.2	358.3	323.7
52.5°	753.9	623.0	411.5	294.9	264.7
55°	696.4	558.2	345.3	238.8	210.1
57.5°	638.8	494.9	283.4	187.0	161.1
60°	579.8	430.2	224.4	138.1	130.9
62.5°	520.8	366.9	174.1	113.7	107.9
65°	460.4	302.1	125.2	92.1	86.3
67.5°	400.0	243.2	90.6	70.5	66.2
70°	336.7	185.6	70.5	53.2	48.9
72.5°	276.2	133.8	50.4	38.8	37.4
75°	221.6	86.3	34.5	28.8	28.8
77.5°	166.9	51.8	24.5	21.6	21.6
80°	116.5	30.2	17.3	15.8	15.8
82.5°	70.5	15.8	11.5	10.1	10.1
85°	30.2	8.6	7.2	5.8	5.8
87.5°	5.8	2.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)