

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: P1061583

Luminaire Tested: S125RDR-S1270D940-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D940-X4F0-XX-UDD-SVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

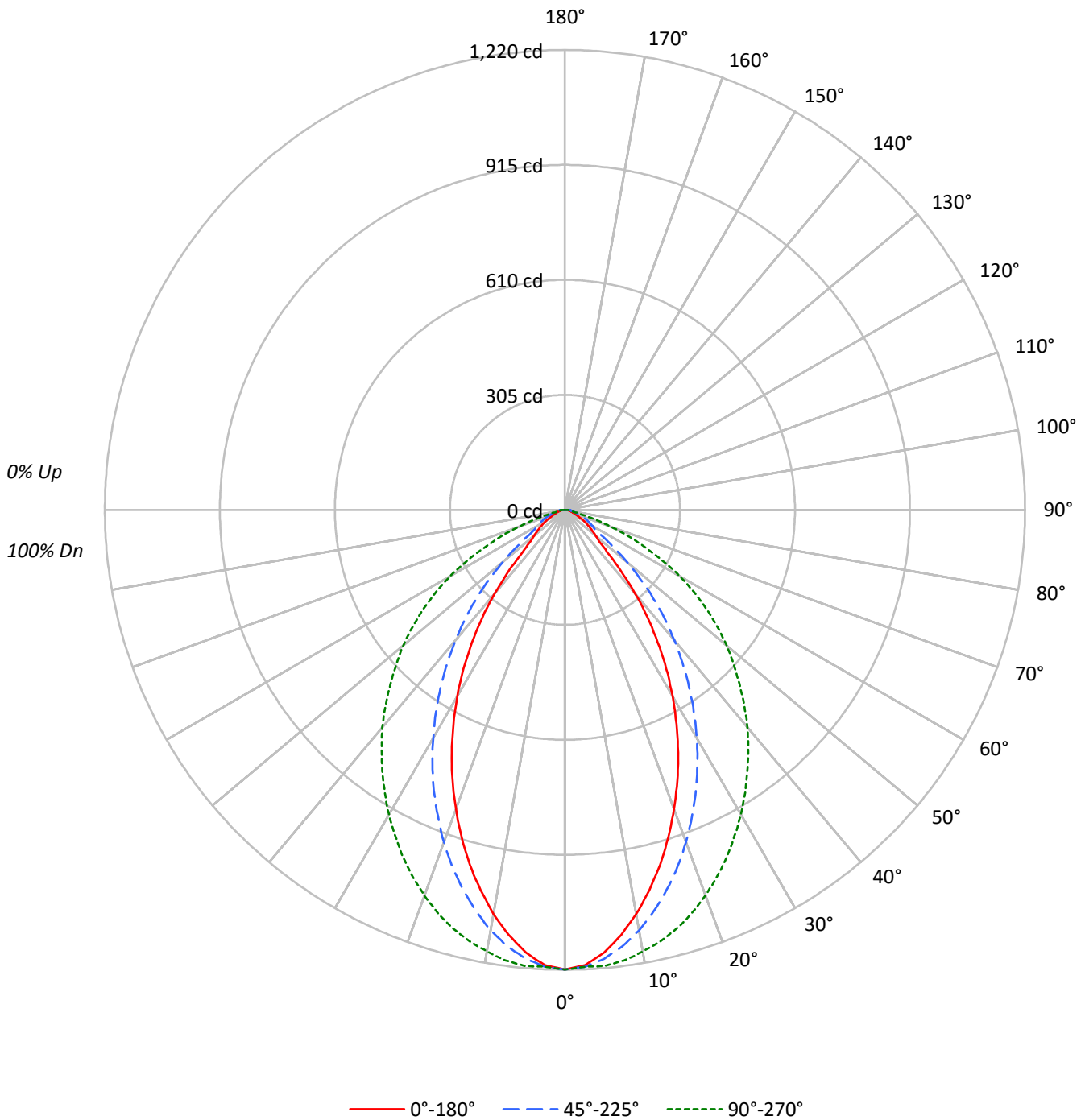
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1766.5 lumens  
Efficiency: N/A  
Efficacy: 42.3 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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																		
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	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	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89																												
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																												
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																												
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62																												
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56																												
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																												
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																												
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																												
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39																												
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36																												

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

	0°	45°	90°
0°	8397	8397	8397
5°	8151	8259	8393
10°	7612	7919	8318
15°	6947	7437	8194
20°	6191	6875	7977
25°	5395	6242	7719
30°	4534	5554	7419
35°	3606	4825	7092
40°	2598	4054	6768
45°	1539	3218	6373
50°	1139	2290	5997
55°	965	1415	5492
60°	785	1142	4836
65°	613	1056	3822
70°	521	914	2557
75°	482	793	1035
80°	515	821	718
85°	616	1232	822

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6373 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.4	6.4
10°-20°	295.2	16.7
20°-30°	385.9	21.8
30°-40°	375.9	21.3
40°-50°	281.9	16.0
50°-60°	176.8	10.0
60°-70°	92.0	5.2
70°-80°	33.3	1.9
80°-90°	13.2	0.7
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°	793.5	44.9
0°-40°	1169.4	66.2
0°-60°	1628.0	92.2
0°-90°	1766.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1766.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1179	1195	1195	1204	1214	110
15°	975	1003	1043	1108	1150	272
25°	710	749	822	933	1016	325
35°	429	474	574	727	844	267
45°	158	205	330	511	654	133
55°	80	84	118	308	458	72
65°	38	40	65	124	235	39
75°	18	25	30	31	39	20
85°	8	13	16	14	10	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1219.6	1219.6	1219.6	1219.6	1219.6
2.5°	1209.2	1220.9	1213.1	1213.1	1213.1
5°	1179.4	1195.0	1195.0	1204.0	1214.4
7.5°	1137.9	1156.1	1167.7	1189.8	1205.3
10°	1088.7	1110.7	1132.7	1169.0	1189.8
12.5°	1032.9	1058.9	1090.0	1140.5	1171.6
15°	974.6	1003.1	1043.3	1108.1	1149.6
17.5°	911.1	944.8	992.8	1070.5	1121.1
20°	845.0	878.7	938.3	1026.5	1088.7
22.5°	778.9	815.2	880.0	979.8	1053.7
25°	710.2	749.1	821.7	933.2	1016.1
27.5°	640.2	680.4	760.8	885.2	974.6
30°	570.3	611.7	698.6	833.4	933.2
32.5°	500.3	544.3	636.4	780.2	889.1
35°	429.0	474.4	574.1	727.1	843.7
37.5°	360.3	405.7	511.9	672.6	798.4
40°	289.0	338.3	451.0	618.2	753.0
42.5°	219.0	269.6	390.1	563.8	703.8
45°	158.1	204.8	330.5	510.6	654.5
47.5°	121.8	147.7	269.6	456.2	606.6
50°	106.3	114.1	213.8	405.7	559.9
52.5°	92.0	97.2	160.7	359.0	509.3
55°	80.4	84.2	117.9	308.5	457.5
57.5°	67.4	72.6	93.3	259.2	404.4
60°	57.0	59.6	82.9	213.8	351.2
62.5°	46.7	49.2	73.9	168.5	291.6
65°	37.6	40.2	64.8	124.4	234.6
67.5°	31.1	32.4	54.4	88.1	180.2
70°	25.9	27.2	45.4	60.9	127.0
72.5°	22.0	25.9	36.3	44.1	80.4
75°	18.1	24.6	29.8	31.1	38.9
77.5°	15.6	23.3	24.6	24.6	22.0
80°	13.0	19.4	20.7	19.4	18.1
82.5°	10.4	15.6	16.8	16.8	14.3
85°	7.8	13.0	15.6	14.3	10.4
87.5°	5.2	11.7	13.0	11.7	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)