

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: P1061592

Luminaire Tested: S125RDR-S1270D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061592  
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-S1270D950-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: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

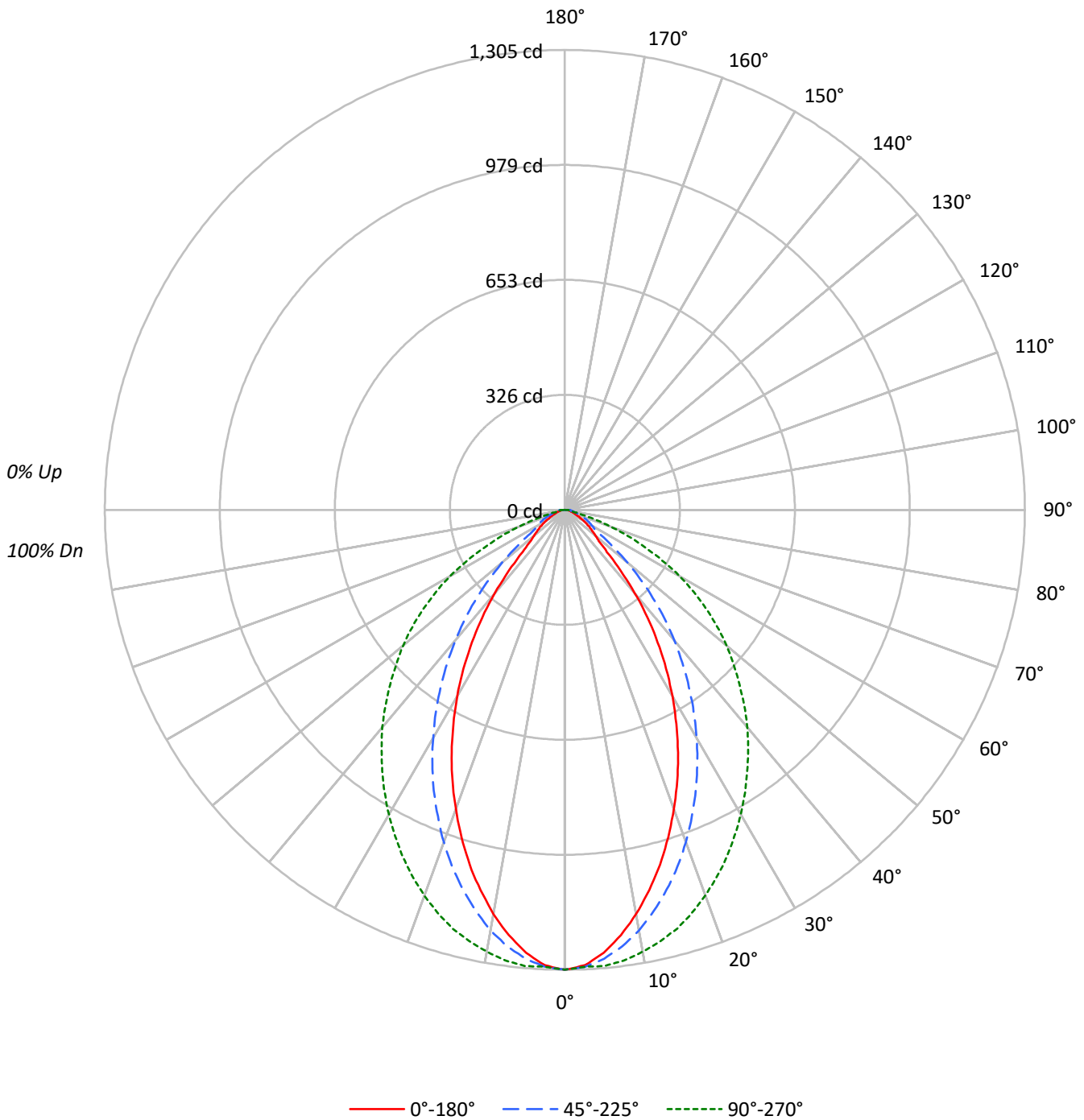
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1889.9 lumens  
Efficiency: N/A  
Efficacy: 45.2 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°	8984	8984	8984
5°	8721	8836	8979
10°	8143	8473	8899
15°	7432	7956	8767
20°	6624	7356	8534
25°	5772	6679	8259
30°	4851	5942	7937
35°	3858	5163	7587
40°	2779	4337	7241
45°	1648	3443	6818
50°	1218	2451	6416
55°	1032	1515	5876
60°	840	1221	5175
65°	655	1129	4089
70°	558	976	2736
75°	516	849	1107
80°	551	880	769
85°	656	1311	877

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6818 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.3	6.4
10°-20°	315.8	16.7
20°-30°	412.8	21.8
30°-40°	402.1	21.3
40°-50°	301.6	16.0
50°-60°	189.1	10.0
60°-70°	98.4	5.2
70°-80°	35.6	1.9
80°-90°	14.1	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°	848.9	44.9
0°-40°	1251.0	66.2
0°-60°	1741.8	92.2
0°-90°	1889.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1262	1278	1278	1288	1299	117
15°	1043	1073	1116	1186	1230	291
25°	760	801	879	998	1087	347
35°	459	508	614	778	903	285
45°	169	219	354	546	700	142
55°	86	90	126	330	490	77
65°	40	43	69	133	251	41
75°	19	26	32	33	42	21
85°	8	14	17	15	11	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1304.8	1304.8	1304.8	1304.8	1304.8
2.5°	1293.7	1306.2	1297.8	1297.8	1297.8
5°	1261.8	1278.4	1278.4	1288.1	1299.2
7.5°	1217.4	1236.8	1249.3	1272.9	1289.5
10°	1164.7	1188.3	1211.9	1250.7	1272.9
12.5°	1105.1	1132.8	1166.1	1220.2	1253.5
15°	1042.7	1073.2	1116.2	1185.5	1229.9
17.5°	974.8	1010.8	1062.1	1145.3	1199.4
20°	904.1	940.1	1003.9	1098.2	1164.7
22.5°	833.3	872.2	941.5	1048.3	1127.3
25°	759.8	801.4	879.1	998.3	1087.1
27.5°	685.0	728.0	813.9	947.0	1042.7
30°	610.1	654.5	747.4	891.6	998.3
32.5°	535.2	582.4	680.8	834.7	951.2
35°	459.0	507.5	614.3	777.9	902.7
37.5°	385.5	434.0	547.7	719.6	854.1
40°	309.2	361.9	482.5	661.4	805.6
42.5°	234.3	288.4	417.4	603.2	752.9
45°	169.2	219.1	353.6	546.3	700.2
47.5°	130.3	158.1	288.4	488.1	648.9
50°	113.7	122.0	228.8	434.0	599.0
52.5°	98.4	104.0	171.9	384.1	544.9
55°	86.0	90.1	126.2	330.0	489.5
57.5°	72.1	77.6	99.8	277.3	432.6
60°	61.0	63.8	88.7	228.8	375.8
62.5°	49.9	52.7	79.0	180.3	312.0
65°	40.2	43.0	69.3	133.1	251.0
67.5°	33.3	34.7	58.2	94.3	192.7
70°	27.7	29.1	48.5	65.2	135.9
72.5°	23.6	27.7	38.8	47.1	86.0
75°	19.4	26.3	31.9	33.3	41.6
77.5°	16.6	25.0	26.3	26.3	23.6
80°	13.9	20.8	22.2	20.8	19.4
82.5°	11.1	16.6	18.0	18.0	15.3
85°	8.3	13.9	16.6	15.3	11.1
87.5°	5.5	12.5	13.9	12.5	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)