

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: P1175407

Luminaire Tested: S125RDR-H1270D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/18/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-H1270D935-X4F0-XX-UDD-WVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

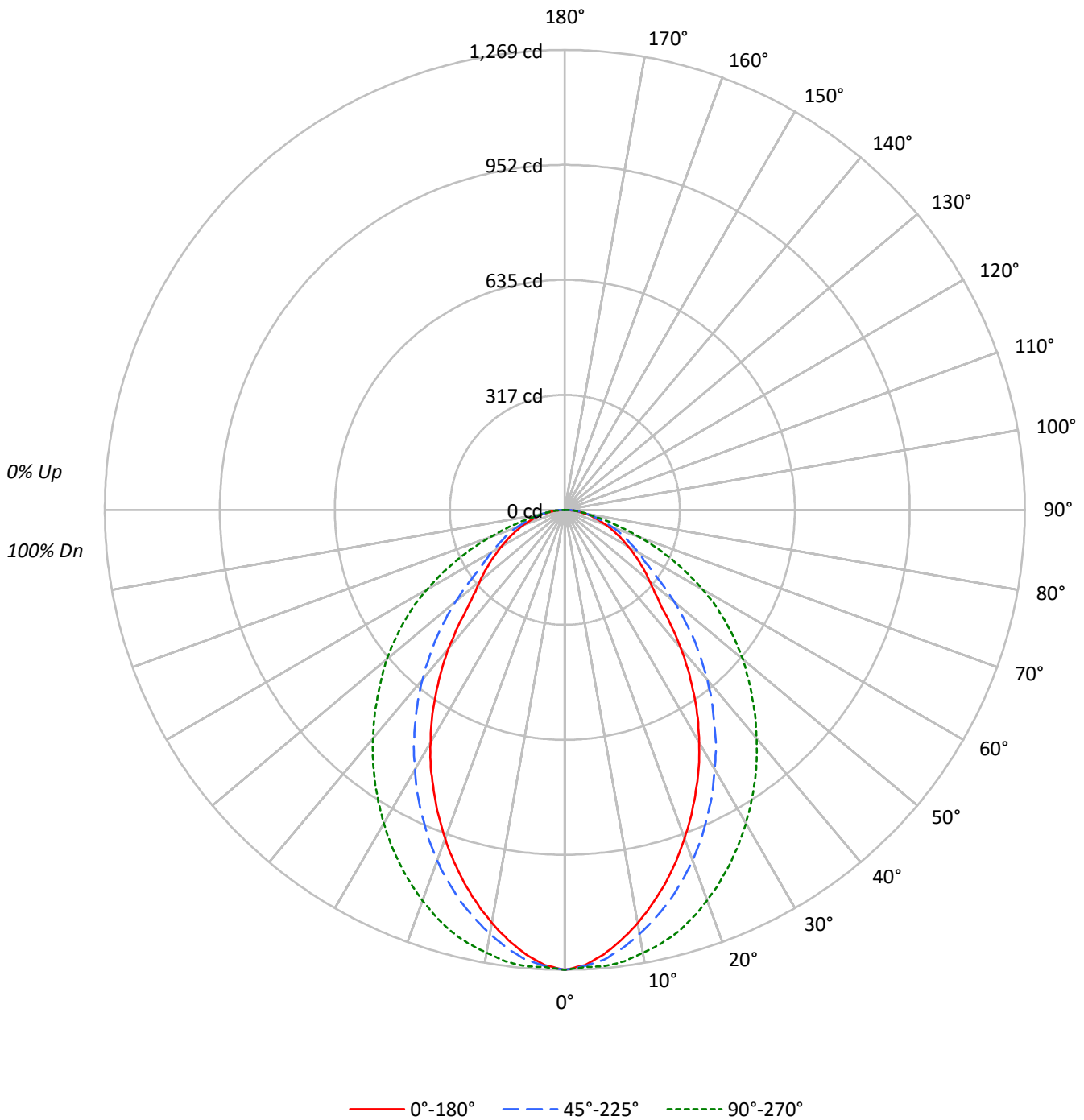
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2391.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36.5  
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	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				30

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

	0°	45°	90°
0°	8739	8739	8739
5°	8512	8608	8735
10°	8098	8309	8677
15°	7611	7956	8594
20°	7073	7547	8407
25°	6498	7072	8185
30°	5893	6570	7940
35°	5216	6040	7679
40°	4474	5491	7398
45°	3672	4889	7113
50°	3266	4201	6866
55°	3013	3517	6518
60°	2775	3204	6038
65°	2581	3019	5336
70°	2408	2820	4360
75°	2264	2607	3267
80°	2137	2391	2351
85°	1959	2386	1959

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7113 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.5	4.9
10°-20°	316.7	13.2
20°-30°	435.7	18.2
30°-40°	462.1	19.3
40°-50°	404.5	16.9
50°-60°	310.4	13.0
60°-70°	206.7	8.6
70°-80°	106.0	4.4
80°-90°	31.5	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°	869.9	36.4
0°-40°	1332.0	55.7
0°-60°	2046.8	85.6
0°-90°	2391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2391.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1232	1248	1246	1254	1264	115
15°	1068	1092	1116	1169	1206	299
25°	855	884	931	1010	1077	393
35°	621	650	719	824	914	387
45°	377	408	502	627	730	298
55°	251	256	293	435	543	225
65°	158	160	185	244	328	158
75°	85	90	98	103	123	91
85°	25	28	30	29	25	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1257.3	1270.2	1260.5	1261.6	1262.7
5°	1231.5	1247.6	1245.5	1254.1	1263.8
7.5°	1197.0	1214.2	1219.6	1241.1	1256.2
10°	1158.2	1177.6	1188.4	1220.7	1241.1
12.5°	1114.0	1136.6	1153.9	1195.9	1226.1
15°	1067.7	1092.5	1116.2	1169.0	1205.6
17.5°	1018.1	1042.9	1074.2	1134.5	1178.7
20°	965.3	992.3	1030.0	1094.6	1147.4
22.5°	911.5	939.5	982.6	1053.7	1114.0
25°	855.4	884.5	930.9	1009.5	1077.4
27.5°	800.5	827.4	881.3	965.3	1039.7
30°	741.2	769.3	826.4	919.0	998.7
32.5°	682.0	710.0	775.7	872.7	956.7
35°	620.6	649.7	718.6	824.2	913.6
37.5°	559.2	589.3	665.8	774.6	869.5
40°	497.8	530.1	610.9	725.1	823.1
42.5°	435.3	469.7	554.9	676.6	777.9
45°	377.1	408.3	502.1	627.0	730.5
47.5°	335.1	353.4	446.0	576.4	685.2
50°	304.9	313.5	392.2	527.9	641.0
52.5°	278.0	283.4	339.4	482.7	592.6
55°	251.0	256.4	293.0	435.3	543.0
57.5°	225.2	228.4	258.6	387.9	493.4
60°	201.5	203.6	232.7	340.5	438.5
62.5°	179.9	181.0	207.9	292.0	383.5
65°	158.4	159.5	185.3	243.5	327.5
67.5°	139.0	139.0	163.8	199.3	273.7
70°	119.6	119.6	140.1	161.6	216.6
72.5°	102.4	104.5	118.5	130.4	169.1
75°	85.1	90.5	98.0	103.4	122.8
77.5°	69.0	75.4	78.6	80.8	81.9
80°	53.9	58.2	60.3	61.4	59.3
82.5°	39.9	43.1	44.2	44.2	40.9
85°	24.8	28.0	30.2	29.1	24.8
87.5°	11.9	16.2	17.2	15.1	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)