

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: P1061509

Luminaire Tested: S125RDR-S1090D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1090D950-X4F0-XX-UDD-SVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

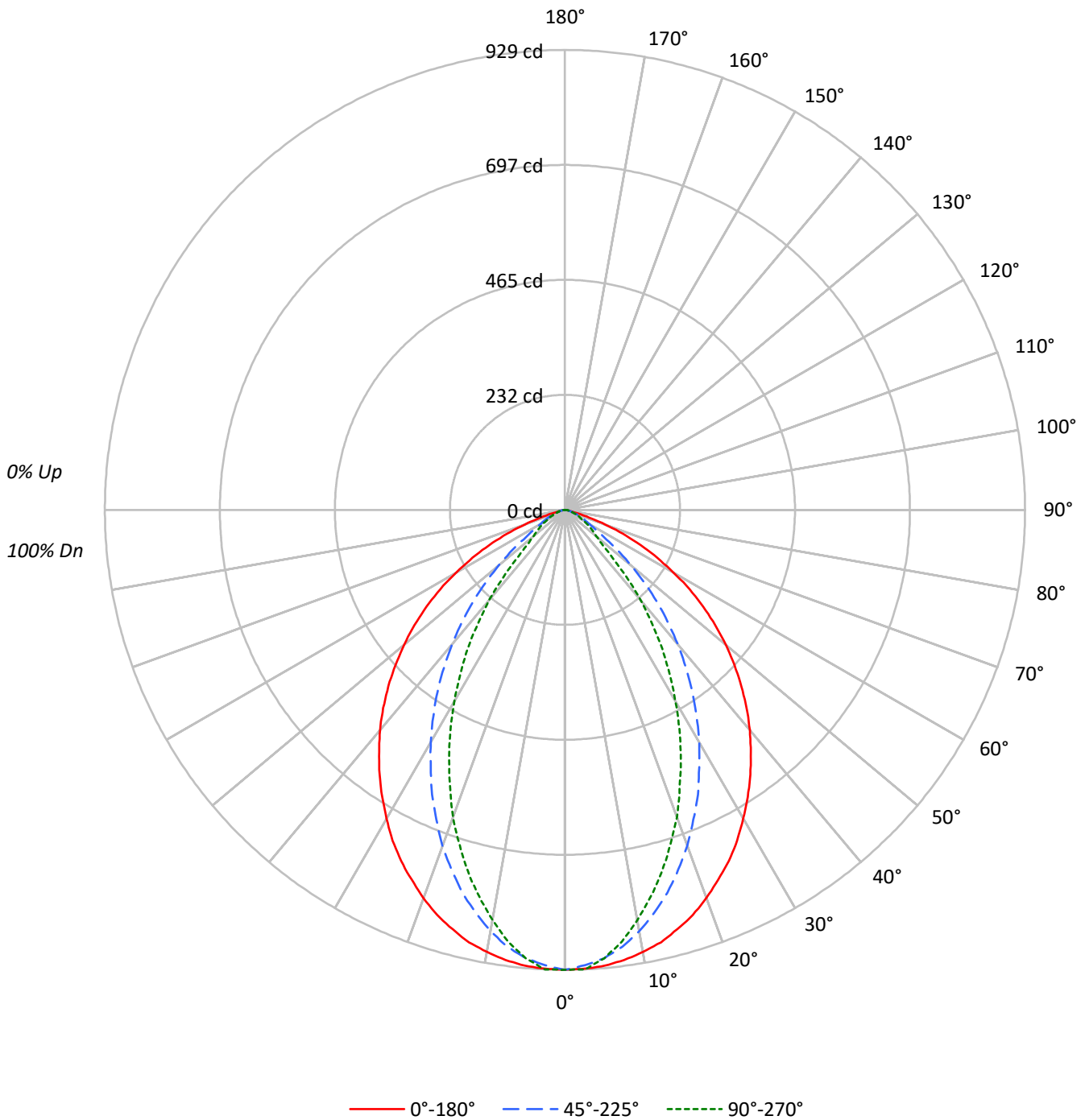
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1343.6 lumens  
Efficiency: N/A  
Efficacy: 38.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35  
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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90				90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52				52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43				43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	6396	6396	6396
5°	6388	6283	6283
10°	6338	6041	5885
15°	6252	5705	5394
20°	6115	5294	4844
25°	5946	4825	4206
30°	5725	4308	3547
35°	5487	3771	2877
40°	5220	3183	2133
45°	4909	2552	1287
50°	4540	1871	885
55°	4096	1148	737
60°	3478	781	585
65°	2750	596	461
70°	1735	427	380
75°	564	314	314
80°	186	234	282
85°	95	190	190

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4909 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	6.4
10°-20°	226.9	16.9
20°-30°	298.5	22.2
30°-40°	293.3	21.8
40°-50°	221.9	16.5
50°-60°	134.5	10.0
60°-70°	63.5	4.7
70°-80°	16.6	1.2
80°-90°	2.5	0.2
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°	611.3	45.5
0°-40°	904.6	67.3
0°-60°	1261.0	93.9
0°-90°	1343.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	924	922	909	910	909	88
15°	877	854	800	770	757	247
25°	783	724	635	576	554	360
35°	653	565	449	370	342	408
45°	504	397	262	166	132	388
55°	341	234	96	65	61	304
65°	169	86	37	31	28	166
75°	21	14	12	12	12	33
85°	1	1	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	929.0	929.0	929.0	929.0	929.0
2.5°	927.9	927.9	920.8	929.0	929.0
5°	924.3	922.0	909.0	910.1	909.0
7.5°	917.2	912.5	890.1	884.2	879.5
10°	906.6	897.2	864.1	849.9	841.7
12.5°	894.8	878.3	833.4	813.3	800.4
15°	877.1	853.5	800.4	769.7	756.7
17.5°	858.2	824.0	761.4	724.8	708.3
20°	834.6	794.5	722.5	677.6	661.1
22.5°	808.6	761.4	677.6	628.0	605.6
25°	782.7	723.6	635.1	576.1	553.6
27.5°	753.1	685.9	586.7	525.3	500.5
30°	720.1	648.1	541.8	478.1	446.2
32.5°	687.0	609.1	494.6	425.0	393.1
35°	652.8	565.4	448.6	369.5	342.3
37.5°	616.2	524.1	401.4	318.7	286.9
40°	580.8	482.8	354.1	266.8	237.3
42.5°	543.0	441.5	306.9	216.0	183.0
45°	504.1	396.6	262.1	166.4	132.2
47.5°	463.9	356.5	217.2	122.8	99.2
50°	423.8	314.0	174.7	90.9	82.6
52.5°	382.5	272.7	132.2	75.6	72.0
55°	341.2	233.7	95.6	64.9	61.4
57.5°	298.7	191.2	72.0	55.5	51.9
60°	252.6	153.5	56.7	46.0	42.5
62.5°	210.1	120.4	46.0	37.8	35.4
65°	168.8	86.2	36.6	30.7	28.3
67.5°	126.3	57.8	28.3	23.6	23.6
70°	86.2	37.8	21.2	18.9	18.9
72.5°	51.9	22.4	15.3	15.3	15.3
75°	21.2	14.2	11.8	11.8	11.8
77.5°	7.1	8.3	8.3	9.4	9.4
80°	4.7	4.7	5.9	7.1	7.1
82.5°	2.4	3.5	3.5	4.7	4.7
85°	1.2	1.2	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)