

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: P1175353

Luminaire Tested: S125RDR-S1090D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175353  
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-S1090D935-X4F0-XX-UDD-WVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

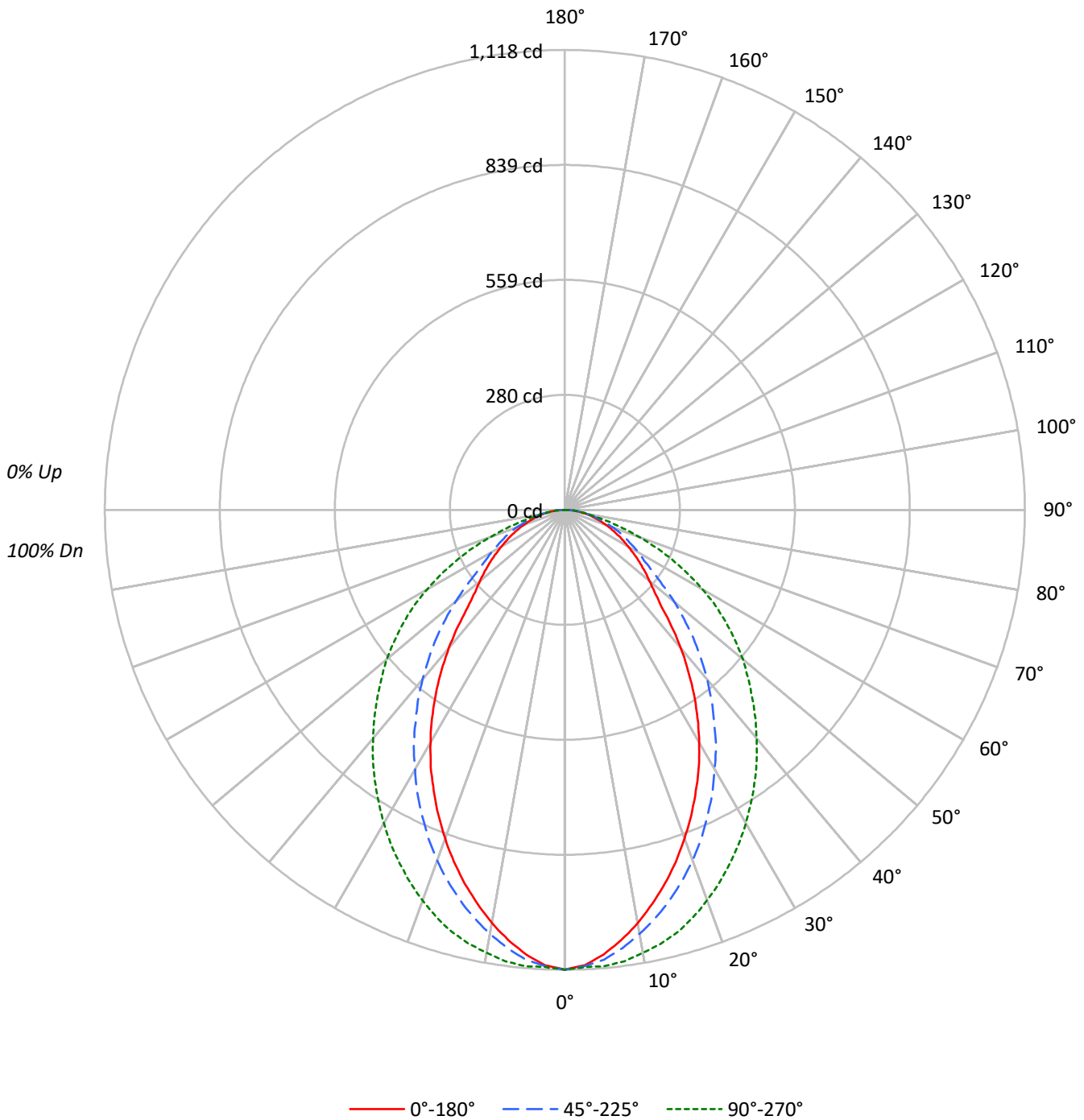
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2106.1 lumens  
Efficiency: N/A  
Efficacy: 60.2 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): 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	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°	7697	7697	7697
5°	7497	7583	7694
10°	7133	7319	7644
15°	6704	7008	7570
20°	6230	6648	7406
25°	5724	6230	7210
30°	5191	5787	6994
35°	4594	5321	6765
40°	3940	4836	6517
45°	3235	4306	6265
50°	2877	3700	6049
55°	2654	3098	5742
60°	2444	2823	5320
65°	2273	2659	4700
70°	2120	2484	3841
75°	1995	2298	2878
80°	1883	2105	2070
85°	1722	2101	1722

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6265 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.5	4.9
10°-20°	279.0	13.2
20°-30°	383.8	18.2
30°-40°	407.0	19.3
40°-50°	356.3	16.9
50°-60°	273.4	13.0
60°-70°	182.1	8.6
70°-80°	93.4	4.4
80°-90°	27.7	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°	766.2	36.4
0°-40°	1173.3	55.7
0°-60°	1802.9	85.6
0°-90°	2106.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2106.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1085	1099	1097	1105	1113	101
15°	940	962	983	1030	1062	264
25°	754	779	820	889	949	346
35°	547	572	633	726	805	341
45°	332	360	442	552	643	262
55°	221	226	258	383	478	198
65°	140	140	163	214	288	139
75°	75	80	86	91	108	80
85°	22	25	27	26	22	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1117.9	1117.9	1117.9	1117.9	1117.9
2.5°	1107.5	1118.9	1110.4	1111.3	1112.3
5°	1084.7	1099.0	1097.1	1104.7	1113.2
7.5°	1054.4	1069.5	1074.3	1093.3	1106.6
10°	1020.2	1037.3	1046.8	1075.2	1093.3
12.5°	981.3	1001.2	1016.4	1053.4	1080.0
15°	940.5	962.3	983.2	1029.7	1062.0
17.5°	896.8	918.7	946.2	999.3	1038.2
20°	850.3	874.0	907.3	964.2	1010.7
22.5°	802.9	827.5	865.5	928.1	981.3
25°	753.5	779.1	820.0	889.2	949.0
27.5°	705.1	728.8	776.3	850.3	915.8
30°	652.9	677.6	727.9	809.5	879.7
32.5°	600.7	625.4	683.3	768.7	842.7
35°	546.6	572.3	633.0	726.0	804.8
37.5°	492.5	519.1	586.5	682.3	765.9
40°	438.4	466.9	538.1	638.7	725.1
42.5°	383.4	413.8	488.7	596.0	685.2
45°	332.2	359.7	442.2	552.3	643.4
47.5°	295.1	311.3	392.9	507.7	603.6
50°	268.6	276.2	345.4	465.0	564.7
52.5°	244.8	249.6	298.9	425.2	522.0
55°	221.1	225.9	258.1	383.4	478.3
57.5°	198.3	201.2	227.8	341.6	434.7
60°	177.5	179.4	205.0	299.9	386.3
62.5°	158.5	159.4	183.2	257.2	337.9
65°	139.5	140.5	163.2	214.5	288.5
67.5°	122.4	122.4	144.3	175.6	241.1
70°	105.3	105.3	123.4	142.4	190.8
72.5°	90.2	92.1	104.4	114.8	149.0
75°	75.0	79.7	86.4	91.1	108.2
77.5°	60.7	66.4	69.3	71.2	72.1
80°	47.5	51.2	53.1	54.1	52.2
82.5°	35.1	38.0	38.9	38.9	36.1
85°	21.8	24.7	26.6	25.6	21.8
87.5°	10.4	14.2	15.2	13.3	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)