

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: P1061444

Luminaire Tested: S125RDR-S1090D835-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061444  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1090D835-X4F0-XX-UDD-BVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

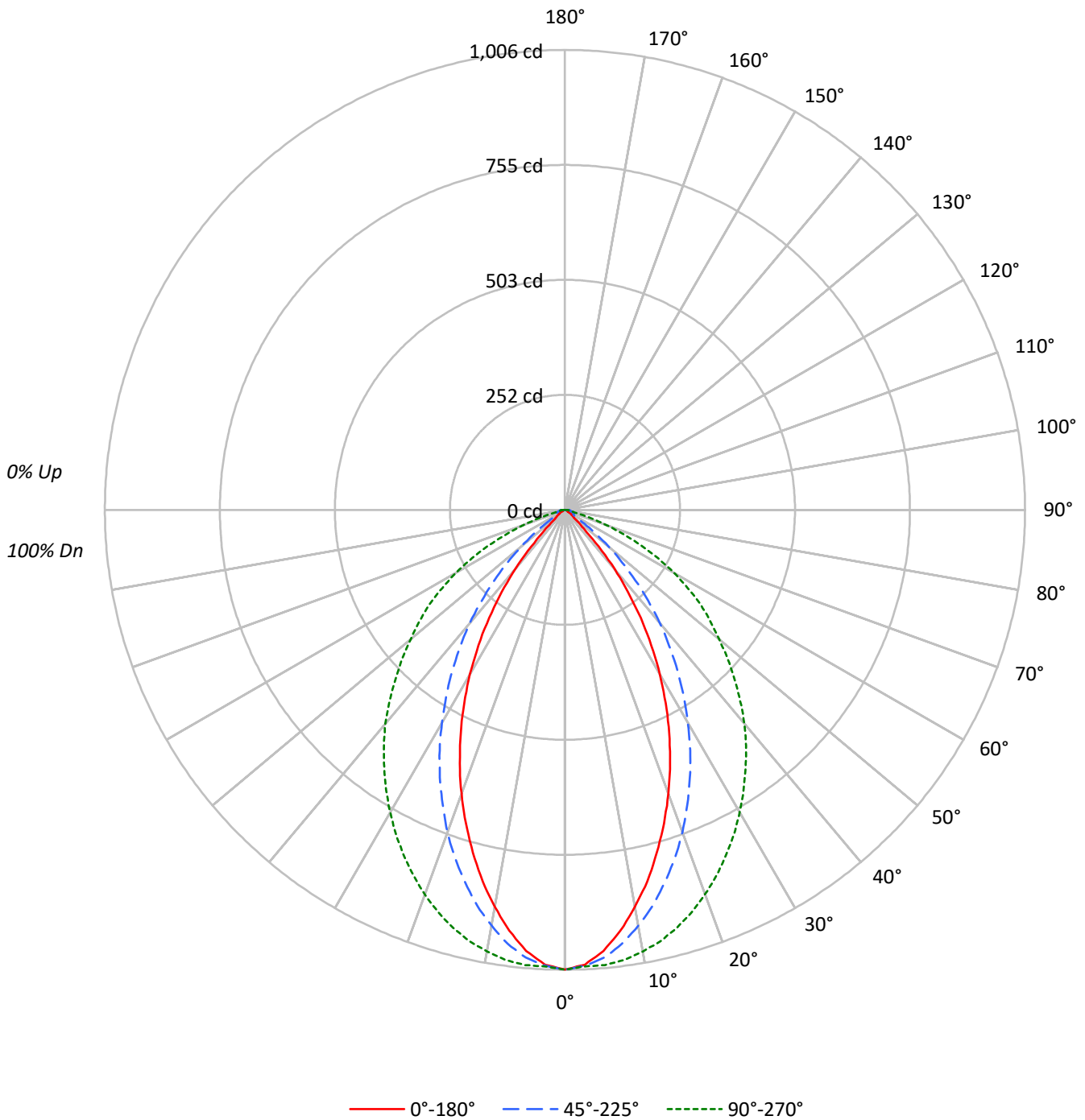
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1293.5 lumens  
Efficiency: N/A  
Efficacy: 37.0 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

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

	0°	45°	90°
0°	6924	6924	6924
5°	6694	6796	6907
10°	6165	6459	6857
15°	5535	6012	6745
20°	4845	5499	6561
25°	4093	4911	6332
30°	3299	4273	6075
35°	2426	3602	5788
40°	1514	2905	5488
45°	567	2123	5101
50°	266	1326	4709
55°	193	550	4356
60°	136	291	3769
65°	81	344	2986
70°	74	399	1894
75°	98	396	593
80°	147	492	440
85°	292	782	585

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5101 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.2	7.1
10°-20°	238.7	18.5
20°-30°	304.1	23.5
30°-40°	283.0	21.9
40°-50°	193.9	15.0
50°-60°	106.8	8.3
60°-70°	50.6	3.9
70°-80°	15.9	1.2
80°-90°	8.1	0.6
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°	635.1	49.1
0°-40°	918.1	71.0
0°-60°	1218.8	94.2
0°-90°	1293.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1293.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	968	981	983	991	999	90
15°	776	801	843	906	946	216
25°	539	572	646	750	834	246
35°	289	329	428	570	689	179
45°	58	98	218	386	524	55
55°	16	19	46	216	363	15
65°	5	6	21	79	183	6
75°	4	6	15	16	22	4
85°	4	9	10	9	7	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1005.6	1005.6	1005.6	1005.6	1005.6
2.5°	995.7	1005.6	998.2	998.2	999.4
5°	968.5	980.8	983.3	990.8	999.4
7.5°	928.8	944.9	957.3	978.4	993.2
10°	881.8	901.6	923.9	958.6	980.8
12.5°	832.2	853.3	886.7	935.0	966.0
15°	776.5	801.3	843.4	906.5	946.2
17.5°	719.5	746.8	798.8	873.1	922.6
20°	661.3	689.8	750.5	833.5	895.4
22.5°	600.6	631.6	698.5	792.6	865.7
25°	538.7	572.2	646.5	750.5	833.5
27.5°	476.8	511.5	593.2	707.2	800.0
30°	414.9	450.8	537.5	662.6	764.1
32.5°	351.7	391.3	483.0	618.0	727.0
35°	288.6	329.4	428.5	569.7	688.6
37.5°	226.6	268.7	375.2	523.9	650.2
40°	168.4	210.5	323.2	478.0	610.6
42.5°	109.0	153.6	268.7	431.0	567.2
45°	58.2	97.8	218.0	386.4	523.9
47.5°	31.0	52.0	169.7	341.8	483.0
50°	24.8	28.5	123.8	297.2	439.6
52.5°	19.8	22.3	79.3	251.4	401.3
55°	16.1	18.6	45.8	215.5	362.9
57.5°	12.4	14.9	26.0	179.6	318.3
60°	9.9	11.1	21.1	143.7	273.7
62.5°	6.2	8.7	21.1	111.5	229.1
65°	5.0	6.2	21.1	79.3	183.3
67.5°	5.0	5.0	21.1	52.0	137.5
70°	3.7	3.7	19.8	33.4	94.1
72.5°	3.7	3.7	17.3	22.3	54.5
75°	3.7	6.2	14.9	16.1	22.3
77.5°	3.7	9.9	13.6	13.6	12.4
80°	3.7	9.9	12.4	11.1	11.1
82.5°	3.7	9.9	9.9	9.9	8.7
85°	3.7	8.7	9.9	8.7	7.4
87.5°	3.7	8.7	8.7	8.7	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)