

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: P1061471

Luminaire Tested: S125RDR-S1090D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061471  
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-S1090D927-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

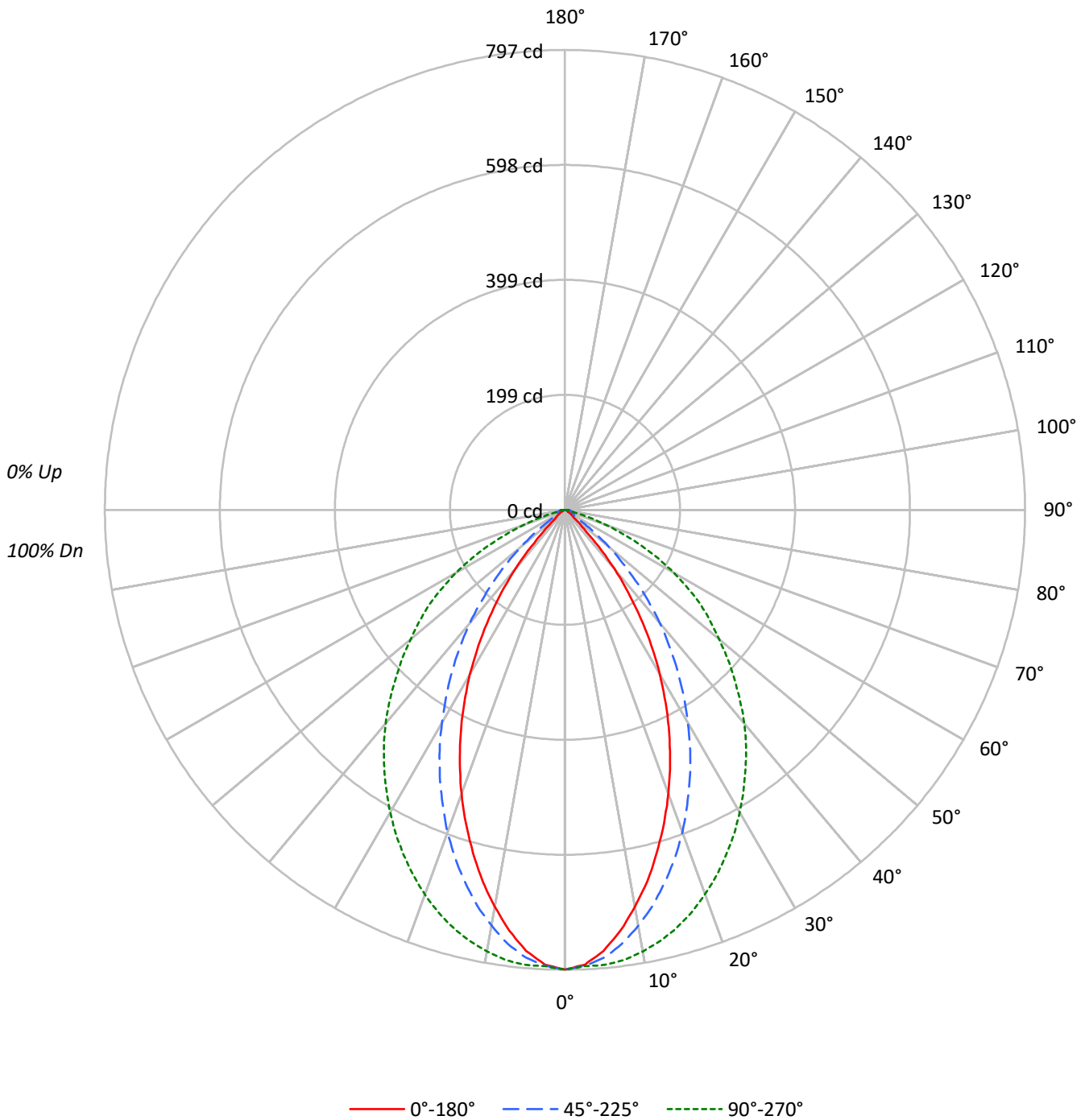
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1024.6 lumens  
Efficiency: N/A  
Efficacy: 29.3 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	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	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				39

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

	0°	45°	90°
0°	5485	5485	5485
5°	5303	5384	5472
10°	4884	5117	5432
15°	4385	4762	5343
20°	3839	4356	5197
25°	3242	3890	5016
30°	2613	3385	4812
35°	1921	2854	4585
40°	1199	2302	4348
45°	449	1682	4041
50°	210	1051	3731
55°	154	436	3451
60°	107	230	2985
65°	64	272	2366
70°	58	316	1502
75°	77	314	471
80°	115	389	349
85°	229	616	466

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4041 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.0	7.1
10°-20°	189.1	18.5
20°-30°	240.9	23.5
30°-40°	224.2	21.9
40°-50°	153.6	15.0
50°-60°	84.6	8.3
60°-70°	40.1	3.9
70°-80°	12.6	1.2
80°-90°	6.4	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°	503.1	49.1
0°-40°	727.3	71.0
0°-60°	965.6	94.2
0°-90°	1024.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1024.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	767	777	779	785	792	71
15°	615	635	668	718	750	171
25°	427	453	512	594	660	195
35°	229	261	340	451	546	142
45°	46	78	173	306	415	44
55°	13	15	36	171	288	12
65°	4	5	17	63	145	4
75°	3	5	12	13	18	3
85°	3	7	8	7	6	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	796.6	796.6	796.6	796.6	796.6
2.5°	788.8	796.6	790.7	790.7	791.7
5°	767.2	777.0	779.0	784.9	791.7
7.5°	735.8	748.6	758.4	775.0	786.8
10°	698.5	714.2	731.9	759.3	777.0
12.5°	659.3	676.0	702.4	740.7	765.2
15°	615.1	634.8	668.1	718.1	749.5
17.5°	570.0	591.6	632.8	691.7	730.9
20°	523.9	546.5	594.5	660.3	709.3
22.5°	475.8	500.3	553.3	627.9	685.8
25°	426.8	453.3	512.1	594.5	660.3
27.5°	377.7	405.2	469.9	560.2	633.8
30°	328.7	357.1	425.8	524.9	605.3
32.5°	278.6	310.0	382.6	489.6	575.9
35°	228.6	261.0	339.5	451.3	545.5
37.5°	179.5	212.9	297.3	415.0	515.1
40°	133.4	166.8	256.1	378.7	483.7
42.5°	86.3	121.7	212.9	341.4	449.3
45°	46.1	77.5	172.7	306.1	415.0
47.5°	24.5	41.2	134.4	270.8	382.6
50°	19.6	22.6	98.1	235.5	348.3
52.5°	15.7	17.7	62.8	199.2	317.9
55°	12.8	14.7	36.3	170.7	287.5
57.5°	9.8	11.8	20.6	142.3	252.1
60°	7.8	8.8	16.7	113.8	216.8
62.5°	4.9	6.9	16.7	88.3	181.5
65°	3.9	4.9	16.7	62.8	145.2
67.5°	3.9	3.9	16.7	41.2	108.9
70°	2.9	2.9	15.7	26.5	74.6
72.5°	2.9	2.9	13.7	17.7	43.2
75°	2.9	4.9	11.8	12.8	17.7
77.5°	2.9	7.8	10.8	10.8	9.8
80°	2.9	7.8	9.8	8.8	8.8
82.5°	2.9	7.8	7.8	7.8	6.9
85°	2.9	6.9	7.8	6.9	5.9
87.5°	2.9	6.9	6.9	6.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)