

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: P1061480

Luminaire Tested: S125RDR-S1090D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061480  
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-S1090D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

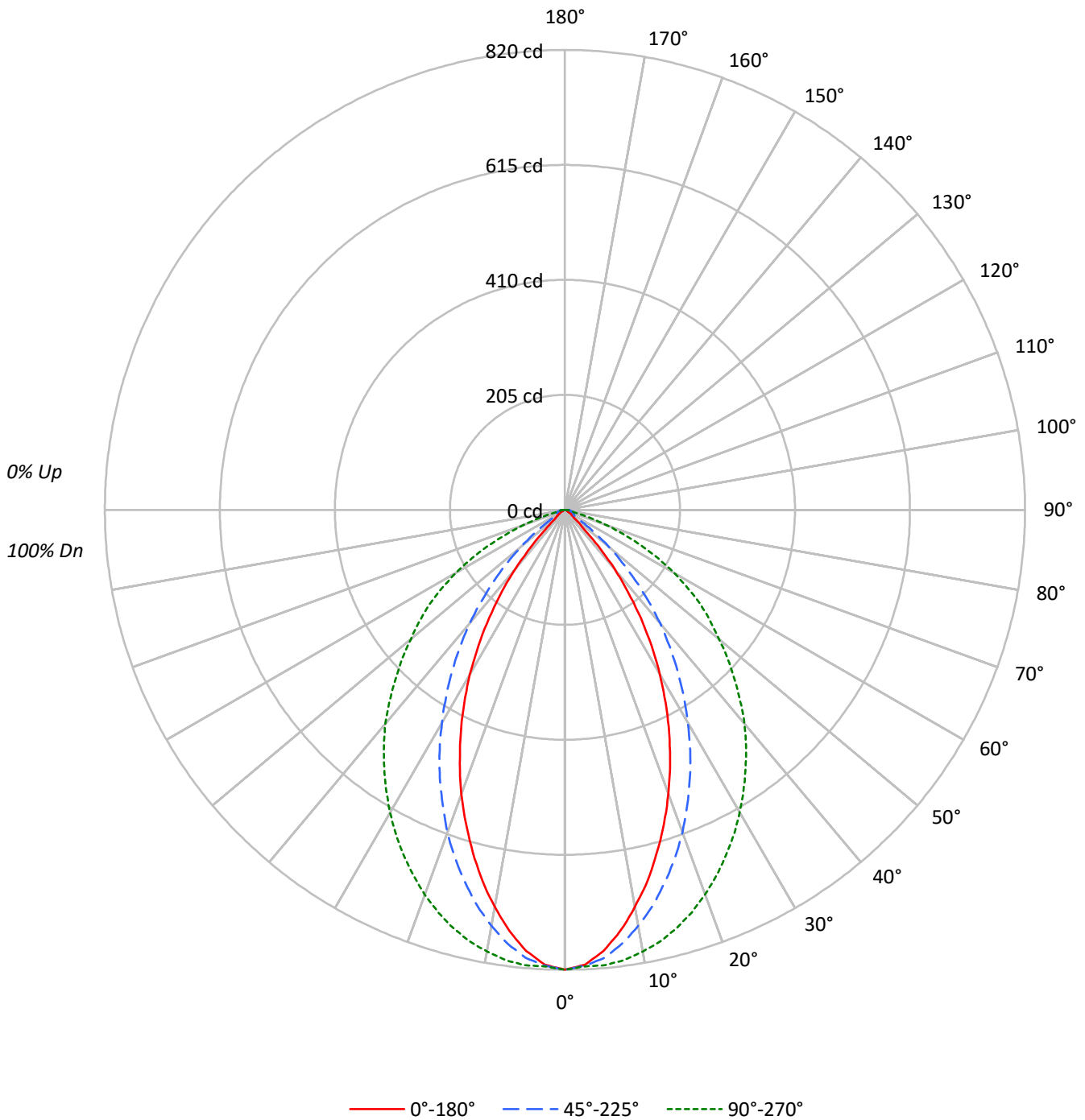
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1054.5 lumens  
Efficiency: N/A  
Efficacy: 30.1 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				
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°	5645	5645	5645
5°	5457	5541	5632
10°	5026	5266	5591
15°	4513	4901	5499
20°	3951	4483	5349
25°	3337	4004	5162
30°	2689	3484	4953
35°	1978	2937	4719
40°	1234	2368	4474
45°	463	1730	4159
50°	216	1082	3839
55°	157	449	3551
60°	112	237	3072
65°	65	280	2434
70°	60	326	1544
75°	80	322	484
80°	119	400	361
85°	237	640	482

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4159 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.2	7.1
10°-20°	194.6	18.5
20°-30°	247.9	23.5
30°-40°	230.8	21.9
40°-50°	158.1	15.0
50°-60°	87.1	8.3
60°-70°	41.2	3.9
70°-80°	12.9	1.2
80°-90°	6.7	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°	517.8	49.1
0°-40°	748.5	71.0
0°-60°	993.7	94.2
0°-90°	1054.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1054.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	790	800	802	808	815	73
15°	633	653	688	739	771	176
25°	439	466	527	612	680	201
35°	235	269	349	464	561	146
45°	48	80	178	315	427	45
55°	13	15	37	176	296	12
65°	4	5	17	65	149	5
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°	819.9	819.9	819.9	819.9	819.9
2.5°	811.8	819.9	813.8	813.8	814.8
5°	789.6	799.7	801.7	807.8	814.8
7.5°	757.3	770.4	780.5	797.7	809.8
10°	718.9	735.1	753.2	781.5	799.7
12.5°	678.5	695.7	722.9	762.3	787.6
15°	633.1	653.3	687.6	739.1	771.4
17.5°	586.6	608.8	651.3	711.8	752.2
20°	539.2	562.4	611.9	679.5	730.0
22.5°	489.7	514.9	569.5	646.2	705.8
25°	439.2	466.5	527.1	611.9	679.5
27.5°	388.7	417.0	483.6	576.5	652.3
30°	338.2	367.5	438.2	540.2	623.0
32.5°	286.8	319.1	393.8	503.8	592.7
35°	235.3	268.6	349.4	464.5	561.4
37.5°	184.8	219.1	305.9	427.1	530.1
40°	137.3	171.6	263.5	389.7	497.8
42.5°	88.9	125.2	219.1	351.4	462.4
45°	47.5	79.8	177.7	315.0	427.1
47.5°	25.2	42.4	138.3	278.7	393.8
50°	20.2	23.2	101.0	242.3	358.4
52.5°	16.2	18.2	64.6	205.0	327.1
55°	13.1	15.1	37.4	175.7	295.8
57.5°	10.1	12.1	21.2	146.4	259.5
60°	8.1	9.1	17.2	117.1	223.1
62.5°	5.0	7.1	17.2	90.9	186.8
65°	4.0	5.0	17.2	64.6	149.4
67.5°	4.0	4.0	17.2	42.4	112.1
70°	3.0	3.0	16.2	27.3	76.7
72.5°	3.0	3.0	14.1	18.2	44.4
75°	3.0	5.0	12.1	13.1	18.2
77.5°	3.0	8.1	11.1	11.1	10.1
80°	3.0	8.1	10.1	9.1	9.1
82.5°	3.0	8.1	8.1	8.1	7.1
85°	3.0	7.1	8.1	7.1	6.1
87.5°	3.0	7.1	7.1	7.1	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)