

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: P1061624

Luminaire Tested: S125RDR-S375D850-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061624  
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-S375D850-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: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

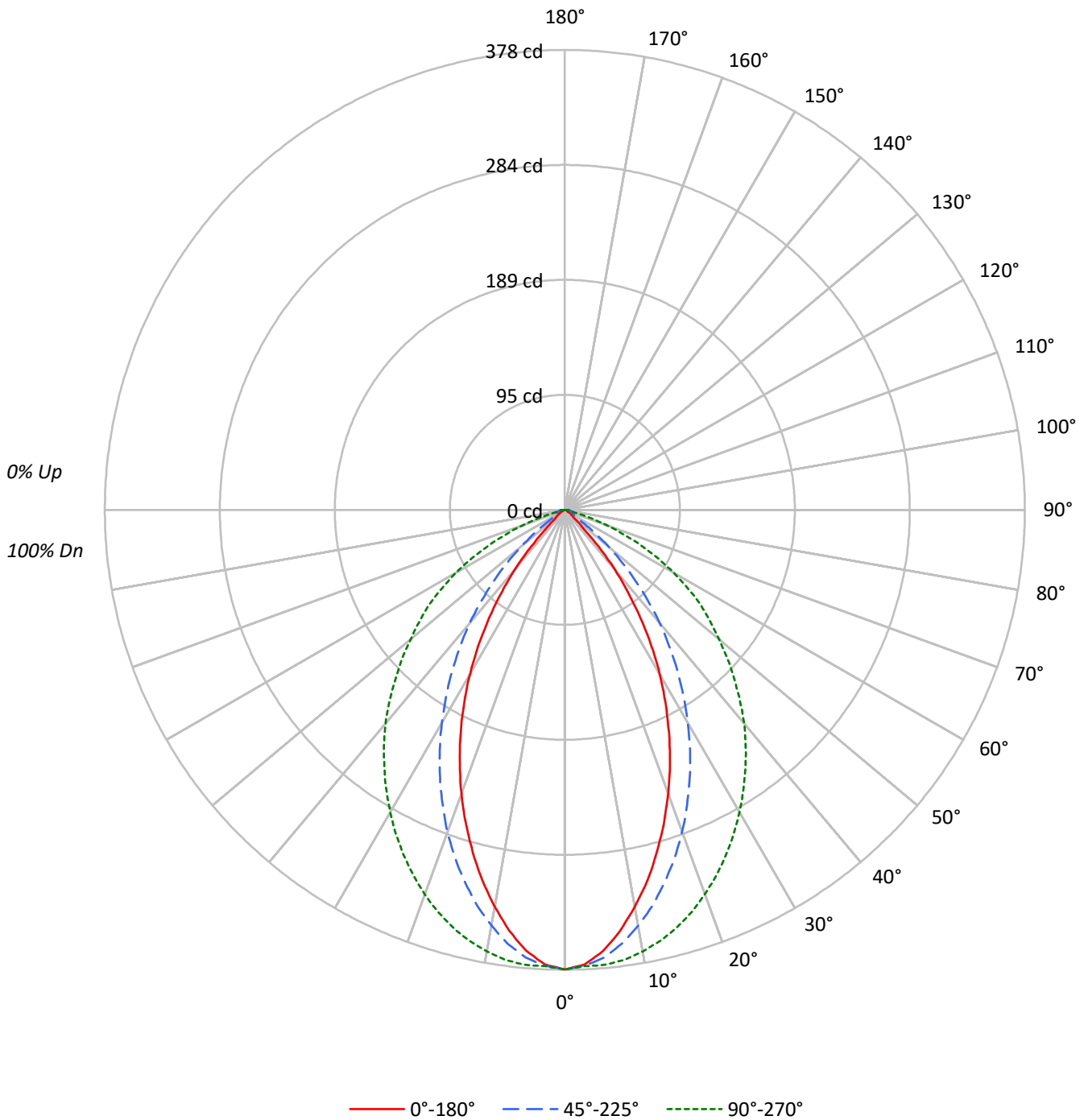
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 485.9 lumens  
Efficiency: N/A  
Efficacy: 38.9 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): 12.5  
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°	2601	2601	2601
5°	2514	2553	2595
10°	2316	2426	2576
15°	2079	2258	2533
20°	1820	2066	2464
25°	1538	1845	2379
30°	1239	1605	2282
35°	911	1353	2174
40°	569	1091	2061
45°	213	797	1916
50°	100	498	1768
55°	72	206	1636
60°	51	109	1416
65°	31	129	1121
70°	28	149	713
75°	37	149	223
80°	56	186	167
85°	111	292	221

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1916 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.6	7.1
10°-20°	89.7	18.5
20°-30°	114.2	23.5
30°-40°	106.3	21.9
40°-50°	72.8	15.0
50°-60°	40.1	8.3
60°-70°	19.0	3.9
70°-80°	6.0	1.2
80°-90°	3.1	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°	238.5	49.1
0°-40°	344.9	71.0
0°-60°	457.8	94.2
0°-90°	485.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	485.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	364	368	369	372	375	34
15°	292	301	317	340	355	81
25°	202	215	243	282	313	92
35°	108	124	161	214	259	67
45°	22	37	82	145	197	21
55°	6	7	17	81	136	5
65°	2	2	8	30	69	2
75°	1	2	6	6	8	1
85°	1	3	4	3	3	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	377.7	377.7	377.7	377.7	377.7
2.5°	374.0	377.7	374.9	374.9	375.4
5°	363.8	368.4	369.4	372.2	375.4
7.5°	348.9	354.9	359.6	367.5	373.1
10°	331.2	338.7	347.0	360.1	368.4
12.5°	312.6	320.5	333.1	351.2	362.8
15°	291.7	301.0	316.8	340.5	355.4
17.5°	270.3	280.5	300.0	328.0	346.6
20°	248.4	259.1	281.9	313.1	336.3
22.5°	225.6	237.2	262.4	297.7	325.2
25°	202.4	214.9	242.8	281.9	313.1
27.5°	179.1	192.1	222.8	265.6	300.5
30°	155.8	169.3	201.9	248.9	287.0
32.5°	132.1	147.0	181.4	232.1	273.1
35°	108.4	123.7	161.0	214.0	258.6
37.5°	85.1	100.9	141.0	196.8	244.2
40°	63.3	79.1	121.4	179.6	229.3
42.5°	40.9	57.7	100.9	161.9	213.1
45°	21.9	36.7	81.9	145.1	196.8
47.5°	11.6	19.5	63.7	128.4	181.4
50°	9.3	10.7	46.5	111.6	165.1
52.5°	7.4	8.4	29.8	94.4	150.7
55°	6.0	7.0	17.2	80.9	136.3
57.5°	4.7	5.6	9.8	67.5	119.6
60°	3.7	4.2	7.9	54.0	102.8
62.5°	2.3	3.3	7.9	41.9	86.1
65°	1.9	2.3	7.9	29.8	68.8
67.5°	1.9	1.9	7.9	19.5	51.6
70°	1.4	1.4	7.4	12.6	35.4
72.5°	1.4	1.4	6.5	8.4	20.5
75°	1.4	2.3	5.6	6.0	8.4
77.5°	1.4	3.7	5.1	5.1	4.7
80°	1.4	3.7	4.7	4.2	4.2
82.5°	1.4	3.7	3.7	3.7	3.3
85°	1.4	3.3	3.7	3.3	2.8
87.5°	1.4	3.3	3.3	3.3	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)