

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: P1061618

Luminaire Tested: S125RDR-S375D840-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S375D840-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

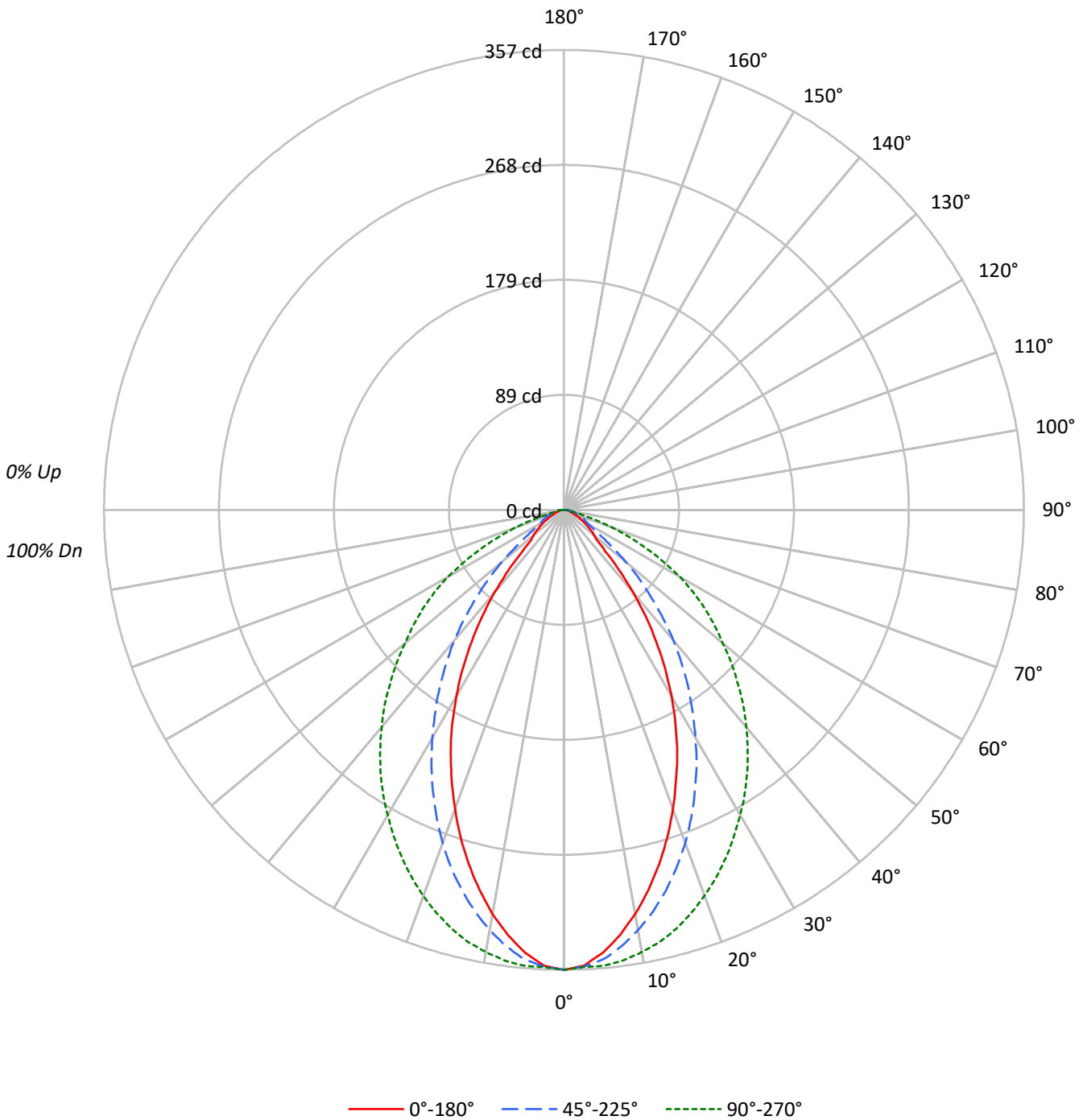
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 515.5 lumens  
Efficiency: N/A  
Efficacy: 41.2 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
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	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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70				
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				

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

	0°	45°	90°
0°	2458	2458	2458
5°	2386	2421	2456
10°	2227	2316	2437
15°	2032	2180	2400
20°	1812	2017	2337
25°	1580	1828	2262
30°	1327	1623	2175
35°	1046	1413	2086
40°	750	1187	1979
45°	441	932	1856
50°	327	672	1723
55°	275	407	1601
60°	222	297	1429
65°	173	283	1145
70°	145	264	775
75°	136	237	338
80°	135	234	218
85°	166	300	237

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1856 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.9	6.4
10°-20°	86.4	16.8
20°-30°	112.9	21.9
30°-40°	109.9	21.3
40°-50°	82.2	15.9
50°-60°	51.0	9.9
60°-70°	26.8	5.2
70°-80°	9.7	1.9
80°-90°	3.7	0.7
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°	232.3	45.1
0°-40°	342.2	66.4
0°-60°	475.3	92.2
0°-90°	515.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	515.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	357	357	357	357	357	
5°	345	350	350	352	355	32
15°	285	294	306	324	337	80
25°	208	218	241	273	298	95
35°	124	138	168	213	248	77
45°	45	59	96	150	191	38
55°	23	24	34	88	133	21
65°	11	11	17	37	70	11
75°	5	6	9	10	13	6
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	357.0	357.0	357.0	357.0	357.0
2.5°	354.1	357.0	354.9	354.9	355.3
5°	345.2	349.8	350.3	352.4	355.3
7.5°	332.9	338.4	341.8	348.1	352.8
10°	318.5	324.9	331.2	341.8	348.6
12.5°	302.4	310.0	319.3	333.7	343.5
15°	285.0	293.5	305.8	324.4	336.7
17.5°	266.8	275.7	291.0	313.4	328.2
20°	247.3	257.1	275.3	300.7	318.9
22.5°	227.4	238.5	258.4	287.2	308.8
25°	208.0	218.5	240.6	273.2	297.7
27.5°	187.6	198.6	222.8	258.8	285.9
30°	166.9	178.7	204.1	244.0	273.6
32.5°	146.1	158.4	185.9	228.7	261.3
35°	124.5	138.1	168.1	213.0	248.2
37.5°	104.2	118.6	149.9	196.9	234.2
40°	83.4	98.3	132.1	181.3	220.2
42.5°	63.1	78.4	113.9	165.2	206.3
45°	45.3	59.3	95.7	149.5	190.6
47.5°	34.7	42.8	78.8	133.4	176.6
50°	30.5	33.0	62.7	117.7	160.9
52.5°	26.7	28.4	46.6	102.5	147.4
55°	22.9	24.1	33.9	88.1	133.4
57.5°	19.5	20.8	25.8	75.0	119.0
60°	16.1	17.4	21.6	61.8	103.8
62.5°	13.6	14.0	19.5	49.6	86.8
65°	10.6	11.4	17.4	37.3	70.3
67.5°	8.9	9.3	15.2	26.7	54.2
70°	7.2	7.6	13.1	18.6	38.5
72.5°	6.4	6.4	11.0	13.6	24.6
75°	5.1	5.9	8.9	9.7	12.7
77.5°	4.2	5.9	7.6	7.2	6.8
80°	3.4	5.5	5.9	5.9	5.5
82.5°	3.0	4.7	5.1	4.7	4.2
85°	2.1	3.8	3.8	3.8	3.0
87.5°	1.7	3.4	3.0	3.0	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)