

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: P1061609

Luminaire Tested: S125RDR-S375D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061609  
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-S375D835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

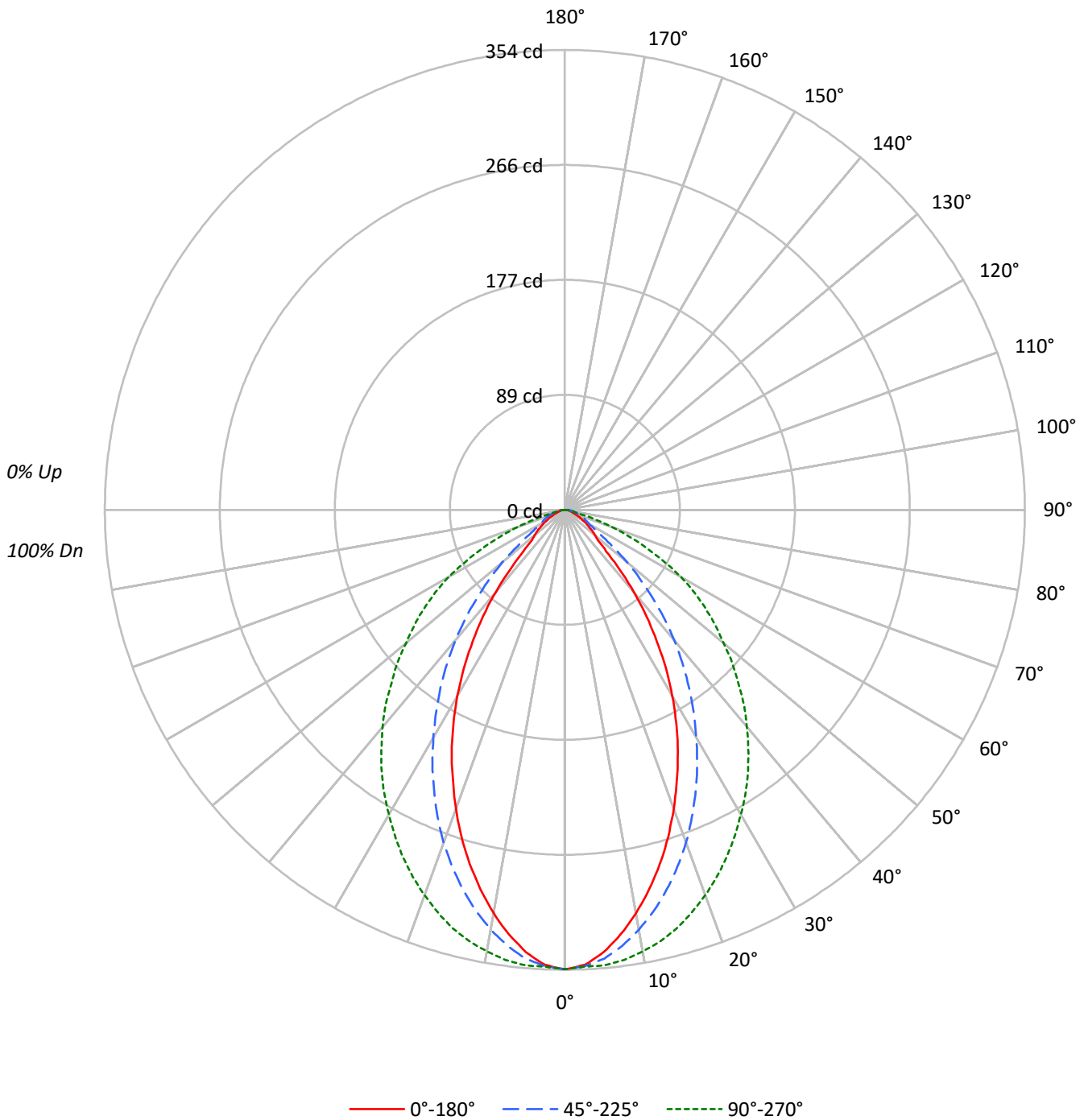
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 510.5 lumens  
Efficiency: N/A  
Efficacy: 40.8 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									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	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°	2435	2435	2435
5°	2362	2397	2432
10°	2205	2293	2413
15°	2012	2158	2377
20°	1794	1997	2314
25°	1564	1810	2240
30°	1313	1608	2154
35°	1036	1399	2066
40°	742	1177	1960
45°	437	923	1837
50°	323	665	1707
55°	271	403	1586
60°	219	295	1416
65°	171	280	1134
70°	143	262	769
75°	133	234	335
80°	135	234	218
85°	166	300	229

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1837 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.6	6.4
10°-20°	85.6	16.8
20°-30°	111.8	21.9
30°-40°	108.9	21.3
40°-50°	81.4	15.9
50°-60°	50.5	9.9
60°-70°	26.5	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°	230.0	45.1
0°-40°	338.9	66.4
0°-60°	470.7	92.2
0°-90°	510.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	510.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	354	354	354	354	354	
5°	342	346	347	349	352	32
15°	282	291	303	321	333	79
25°	206	216	238	270	295	94
35°	123	137	166	211	246	77
45°	45	59	95	148	189	38
55°	23	24	34	87	132	20
65°	10	11	17	37	70	11
75°	5	6	9	10	13	5
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°	353.6	353.6	353.6	353.6	353.6
2.5°	350.6	353.6	351.5	351.5	351.9
5°	341.8	346.4	346.8	348.9	351.9
7.5°	329.6	335.1	338.5	344.7	349.4
10°	315.4	321.7	328.0	338.5	345.2
12.5°	299.5	307.0	316.2	330.5	340.1
15°	282.3	290.6	302.8	321.3	333.4
17.5°	264.2	273.0	288.1	310.4	325.0
20°	244.9	254.6	272.6	297.8	315.8
22.5°	225.2	236.1	255.8	284.4	305.7
25°	205.9	216.4	238.2	270.5	294.8
27.5°	185.8	196.7	220.6	256.3	283.1
30°	165.2	177.0	202.2	241.6	270.9
32.5°	144.7	156.9	184.1	226.5	258.8
35°	123.3	136.7	166.5	211.0	245.8
37.5°	103.2	117.4	148.5	195.0	231.9
40°	82.6	97.3	130.9	179.5	218.1
42.5°	62.5	77.6	112.8	163.6	204.2
45°	44.9	58.7	94.8	148.0	188.7
47.5°	34.4	42.4	78.0	132.1	174.9
50°	30.2	32.7	62.1	116.6	159.4
52.5°	26.4	28.1	46.1	101.5	146.0
55°	22.6	23.9	33.6	87.2	132.1
57.5°	19.3	20.6	25.6	74.2	117.9
60°	15.9	17.2	21.4	61.2	102.8
62.5°	13.4	13.8	19.3	49.1	86.0
65°	10.5	11.3	17.2	36.9	69.6
67.5°	8.8	9.2	15.1	26.4	53.7
70°	7.1	7.5	13.0	18.5	38.2
72.5°	6.3	6.3	10.9	13.4	24.3
75°	5.0	5.9	8.8	9.6	12.6
77.5°	4.2	5.9	7.5	7.1	6.7
80°	3.4	5.5	5.9	5.9	5.5
82.5°	2.9	4.6	5.0	4.6	4.2
85°	2.1	3.8	3.8	3.8	2.9
87.5°	1.7	3.4	2.9	2.9	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)