

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061657

Luminaire Tested: S125RDRP-S375D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S375D935-X4F0-XX-UDD-WVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

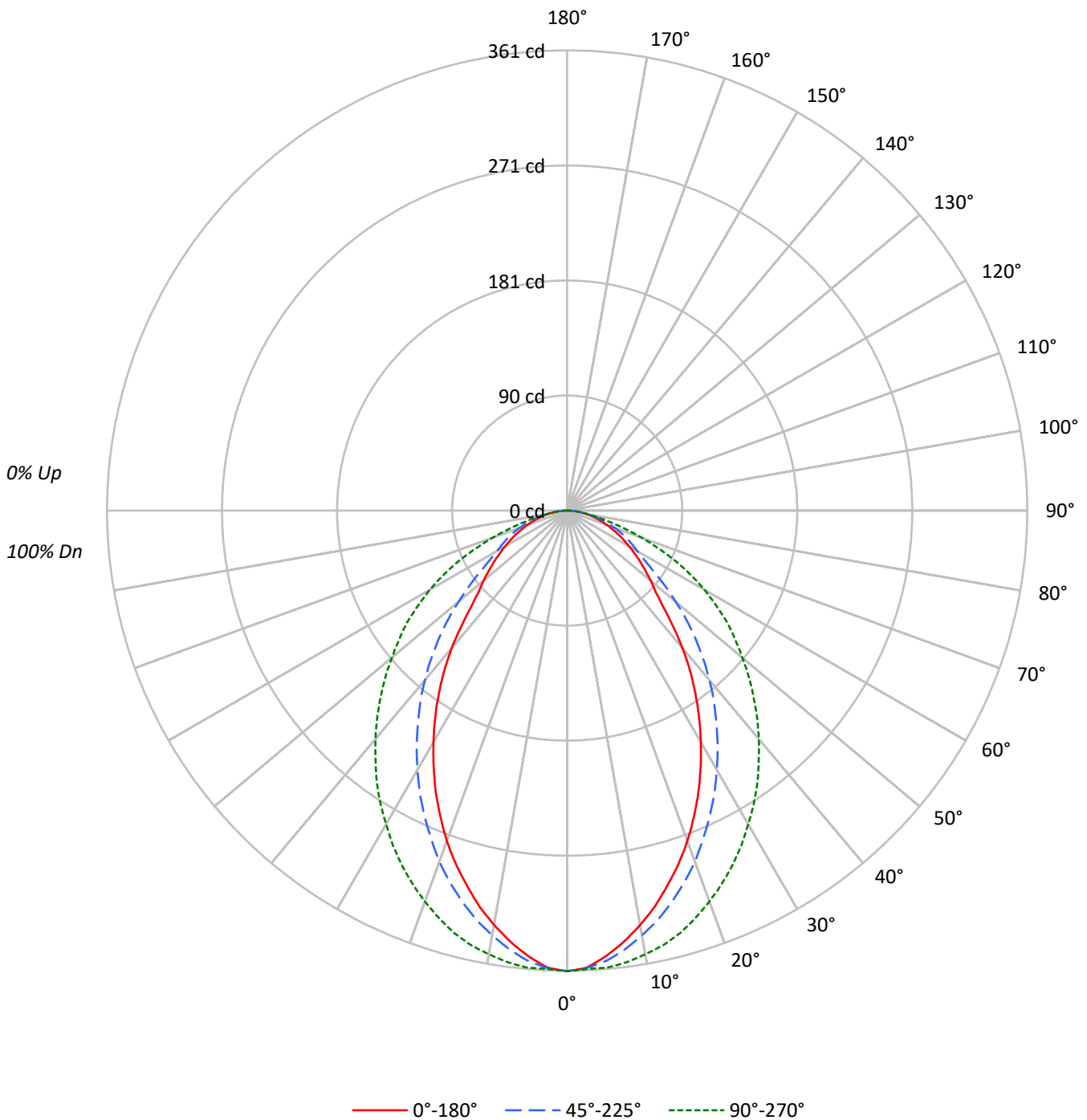
Lumens per Lamp: N/A  
Luminaire Lumens: 677.5 lumens  
Efficiency: N/A  
Efficacy: 54.2 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

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

	0°	45°	90°
0°	2488	2488	2488
5°	2425	2450	2487
10°	2307	2365	2471
15°	2169	2265	2445
20°	2021	2148	2392
25°	1851	2010	2332
30°	1668	1866	2259
35°	1475	1715	2188
40°	1266	1560	2102
45°	1033	1389	2015
50°	917	1191	1922
55°	840	988	1841
60°	775	874	1716
65°	723	841	1530
70°	676	799	1250
75°	625	750	923
80°	587	702	674
85°	545	687	569

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2015 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.4	4.9
10°-20°	90.1	13.3
20°-30°	123.8	18.3
30°-40°	131.2	19.4
40°-50°	114.5	16.9
50°-60°	87.0	12.8
60°-70°	58.3	8.6
70°-80°	30.1	4.4
80°-90°	9.0	1.3
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°	247.3	36.5
0°-40°	378.5	55.9
0°-60°	580.1	85.6
0°-90°	677.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	677.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	361	361	361	361	361	
5°	351	354	354	357	360	33
15°	304	310	318	332	343	85
25°	244	251	265	287	307	112
35°	176	186	204	233	260	109
45°	106	117	143	176	207	84
55°	70	72	82	121	153	63
65°	44	46	52	69	94	44
75°	24	25	28	30	35	25
85°	7	9	9	8	7	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	361.4	361.4	361.4	361.4	361.4
2.5°	358.8	361.4	359.2	359.2	359.9
5°	350.9	354.5	354.5	357.0	359.9
7.5°	341.2	345.1	347.3	353.1	357.4
10°	330.0	334.3	338.3	346.9	353.4
12.5°	318.1	322.7	328.9	340.1	349.1
15°	304.3	310.1	317.7	331.8	343.0
17.5°	290.6	296.4	305.8	322.4	335.0
20°	275.8	282.0	293.1	311.2	326.4
22.5°	259.9	266.8	278.7	299.3	317.0
25°	243.7	251.3	264.6	286.6	306.9
27.5°	226.7	235.7	250.2	273.7	296.0
30°	209.8	218.8	234.7	260.3	284.1
32.5°	192.8	202.5	219.9	246.9	272.6
35°	175.5	185.6	204.0	232.9	260.3
37.5°	158.5	168.6	189.2	219.1	246.9
40°	140.8	151.3	173.6	205.1	233.9
42.5°	122.7	133.9	158.1	190.6	220.6
45°	106.1	116.6	142.6	176.5	206.9
47.5°	93.9	100.7	127.1	162.1	193.5
50°	85.6	89.2	111.2	148.0	179.4
52.5°	77.3	80.1	96.4	133.6	166.1
55°	70.0	72.2	82.3	120.9	153.4
57.5°	62.8	65.0	71.5	108.3	138.6
60°	56.3	58.1	63.5	94.9	124.6
62.5°	50.2	51.6	57.4	82.3	109.4
65°	44.4	45.5	51.6	69.0	93.9
67.5°	38.6	39.7	45.8	56.3	77.3
70°	33.6	33.9	39.7	45.8	62.1
72.5°	28.5	28.9	33.6	37.2	47.7
75°	23.5	24.9	28.2	30.0	34.7
77.5°	19.1	20.9	22.7	23.5	23.5
80°	14.8	17.0	17.7	17.7	17.0
82.5°	10.8	12.6	13.0	12.3	11.6
85°	6.9	8.7	8.7	7.9	7.2
87.5°	3.2	4.7	4.7	4.3	3.2
90°	0.0	0.0	0.0	0.0	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.77	11.27	10.14	11.58	11.90	13.70	15.20	14.07	15.51	15.83
	3H	11.34	12.69	11.72	13.02	13.38	15.12	16.47	15.50	16.79	17.16
	4H	11.96	13.22	12.36	13.57	13.95	15.54	16.80	15.94	17.15	17.53
	6H	12.45	13.62	12.86	13.98	14.37	15.76	16.92	16.17	17.29	17.68
	8H	12.63	13.73	13.05	14.12	14.52	15.82	16.92	16.24	17.31	17.71
	12H	12.75	13.81	13.18	14.19	14.62	15.85	16.91	16.28	17.29	17.72
4H	2H	10.51	11.77	10.91	12.12	12.50	13.83	15.09	14.23	15.43	15.81
	3H	12.29	13.33	12.70	13.73	14.14	15.44	16.48	15.85	16.88	17.28
	4H	13.02	13.97	13.46	14.38	14.82	15.96	16.91	16.40	17.32	17.76
	6H	13.66	14.48	14.12	14.92	15.38	16.31	17.13	16.77	17.57	18.03
	8H	13.89	14.65	14.35	15.10	15.56	16.41	17.17	16.87	17.62	18.08
	12H	14.06	14.74	14.54	15.22	15.69	16.48	17.16	16.96	17.64	18.11
8H	4H	13.43	14.19	13.89	14.63	15.10	16.07	16.84	16.54	17.28	17.75
	6H	14.21	14.84	14.71	15.33	15.81	16.51	17.14	17.01	17.63	18.11
	8H	14.53	15.10	15.05	15.61	16.10	16.67	17.24	17.18	17.75	18.24
	12H	14.81	15.31	15.32	15.80	16.37	16.81	17.31	17.32	17.80	18.36
12H	4H	13.47	14.15	13.95	14.63	15.10	16.07	16.75	16.55	17.23	17.70
	6H	14.29	14.86	14.81	15.37	15.86	16.53	17.10	17.04	17.61	18.09
	8H	14.69	15.19	15.20	15.68	16.25	16.74	17.24	17.25	17.73	18.30