

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: P1061537

Luminaire Tested: S125RDRP-S1270D840-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061537  
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: S125RDRP-S1270D840-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: -

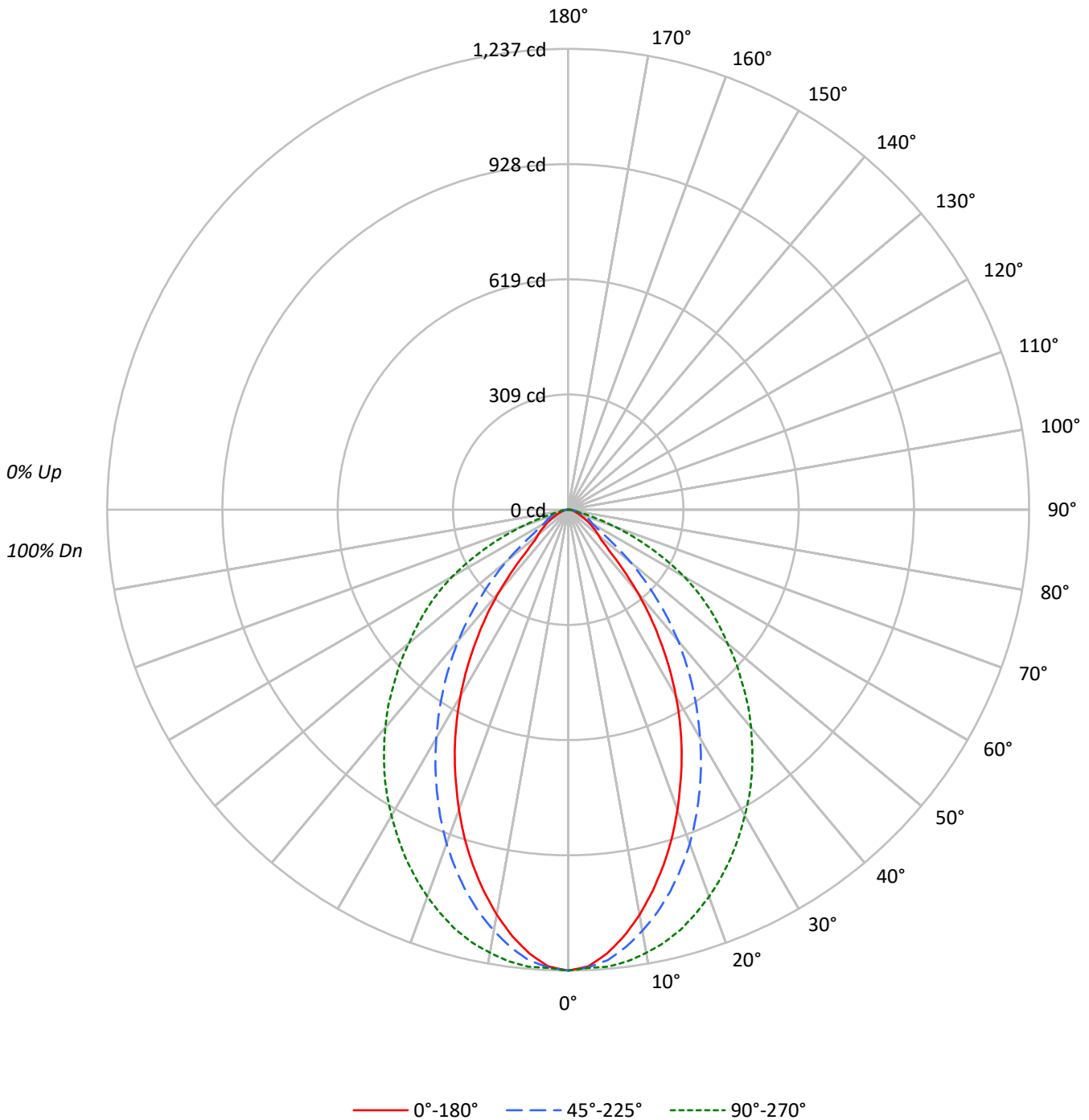
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1786.3 lumens  
Efficiency: N/A  
Efficacy: 42.7 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): 41.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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											100																	
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89											89																	
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79											79																	
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70											70																	
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63											63																	
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56											56																	
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51											51																	
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46											46																	
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42											42																	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39											39																	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36											36																	

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

	0°	45°	90°
0°	8518	8518	8518
5°	8266	8389	8510
10°	7716	8023	8444
15°	7040	7553	8316
20°	6279	6989	8097
25°	5474	6333	7838
30°	4597	5624	7537
35°	3627	4897	7229
40°	2598	4116	6859
45°	1529	3230	6430
50°	1132	2327	5974
55°	951	1409	5549
60°	768	1030	4950
65°	598	981	3969
70°	501	916	2688
75°	468	819	1171
80°	464	813	757
85°	577	1043	814

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6430 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.0	6.4
10°-20°	299.5	16.8
20°-30°	391.4	21.9
30°-40°	381.0	21.3
40°-50°	284.7	15.9
50°-60°	176.6	9.9
60°-70°	92.7	5.2
70°-80°	33.8	1.9
80°-90°	12.8	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°	804.8	45.1
0°-40°	1185.8	66.4
0°-60°	1647.0	92.2
0°-90°	1786.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1786.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1196	1212	1214	1221	1231	111
15°	988	1017	1060	1124	1167	276
25°	721	757	834	947	1032	329
35°	432	478	583	738	860	269
45°	157	206	332	518	660	132
55°	79	84	117	305	462	71
65°	37	40	60	129	244	38
75°	18	20	31	34	44	19
85°	7	13	13	13	10	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1226.9	1237.1	1229.8	1229.8	1231.3
5°	1196.0	1212.2	1213.7	1221.0	1231.3
7.5°	1153.5	1172.6	1184.3	1206.3	1222.5
10°	1103.6	1125.6	1147.6	1184.3	1207.8
12.5°	1047.8	1074.2	1106.5	1156.4	1190.2
15°	987.7	1017.0	1059.6	1124.1	1166.7
17.5°	924.5	955.4	1008.2	1086.0	1137.3
20°	857.0	890.8	953.9	1042.0	1105.1
22.5°	788.1	826.2	895.2	995.0	1069.8
25°	720.6	757.2	833.6	946.6	1031.7
27.5°	650.1	688.3	771.9	896.7	990.6
30°	578.2	619.3	707.4	845.3	948.0
32.5°	506.3	548.9	644.2	792.5	905.5
35°	431.5	478.4	582.6	738.2	860.0
37.5°	361.0	410.9	519.5	682.4	811.5
40°	289.1	340.5	457.9	628.1	763.1
42.5°	218.7	271.5	394.8	572.3	714.7
45°	157.0	205.5	331.7	518.0	660.4
47.5°	120.3	148.2	273.0	462.3	612.0
50°	105.7	114.5	217.2	408.0	557.7
52.5°	92.5	98.3	161.4	355.1	510.7
55°	79.2	83.6	117.4	305.2	462.3
57.5°	67.5	71.9	89.5	259.8	412.4
60°	55.8	60.2	74.8	214.3	359.5
62.5°	47.0	48.4	67.5	171.7	300.8
65°	36.7	39.6	60.2	129.1	243.6
67.5°	30.8	32.3	52.8	92.5	187.8
70°	24.9	26.4	45.5	64.6	133.5
72.5°	22.0	22.0	38.2	47.0	85.1
75°	17.6	20.5	30.8	33.8	44.0
77.5°	14.7	20.5	26.4	24.9	23.5
80°	11.7	19.1	20.5	20.5	19.1
82.5°	10.3	16.1	17.6	16.1	14.7
85°	7.3	13.2	13.2	13.2	10.3
87.5°	5.9	11.7	10.3	10.3	7.3
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	7.23	8.58	7.59	8.89	9.21	16.93	18.28	17.30	18.60	18.91
	3H	8.07	9.27	8.45	9.59	9.96	17.85	19.04	18.23	19.37	19.74
	4H	8.43	9.54	8.83	9.89	10.28	17.94	19.06	18.35	19.41	19.79
	6H	8.80	9.83	9.21	10.20	10.59	17.93	18.96	18.34	19.33	19.72
	8H	8.98	9.95	9.41	10.34	10.75	17.92	18.89	18.35	19.28	19.69
	12H	9.14	10.07	9.57	10.45	10.89	17.90	18.83	18.34	19.22	19.65
4H	2H	8.06	9.18	8.46	9.53	9.91	16.79	17.90	17.19	18.25	18.64
	3H	9.12	10.03	9.53	10.43	10.84	17.77	18.69	18.19	19.09	19.50
	4H	9.57	10.39	10.00	10.81	11.25	17.90	18.72	18.34	19.14	19.58
	6H	10.13	10.83	10.59	11.28	11.74	17.94	18.64	18.40	19.09	19.55
	8H	10.39	11.05	10.86	11.49	11.96	17.94	18.60	18.40	19.04	19.51
	12H	10.63	11.21	11.11	11.69	12.17	17.94	18.53	18.43	19.01	19.48
8H	4H	10.12	10.78	10.59	11.23	11.70	17.83	18.49	18.30	18.93	19.40
	6H	10.90	11.44	11.40	11.94	12.42	17.89	18.43	18.39	18.92	19.40
	8H	11.32	11.80	11.84	12.32	12.81	17.92	18.40	18.44	18.92	19.41
	12H	11.73	12.16	12.25	12.66	13.23	17.97	18.40	18.48	18.89	19.46
12H	4H	10.19	10.77	10.67	11.25	11.72	17.79	18.38	18.28	18.86	19.33
	6H	11.05	11.53	11.57	12.05	12.54	17.85	18.34	18.37	18.85	19.34
	8H	11.57	12.00	12.09	12.50	13.07	17.92	18.35	18.43	18.84	19.41