

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: P1061587

Luminaire Tested: S125RDRP-S1270D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1270D950-X4F0-XX-UDD-BVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

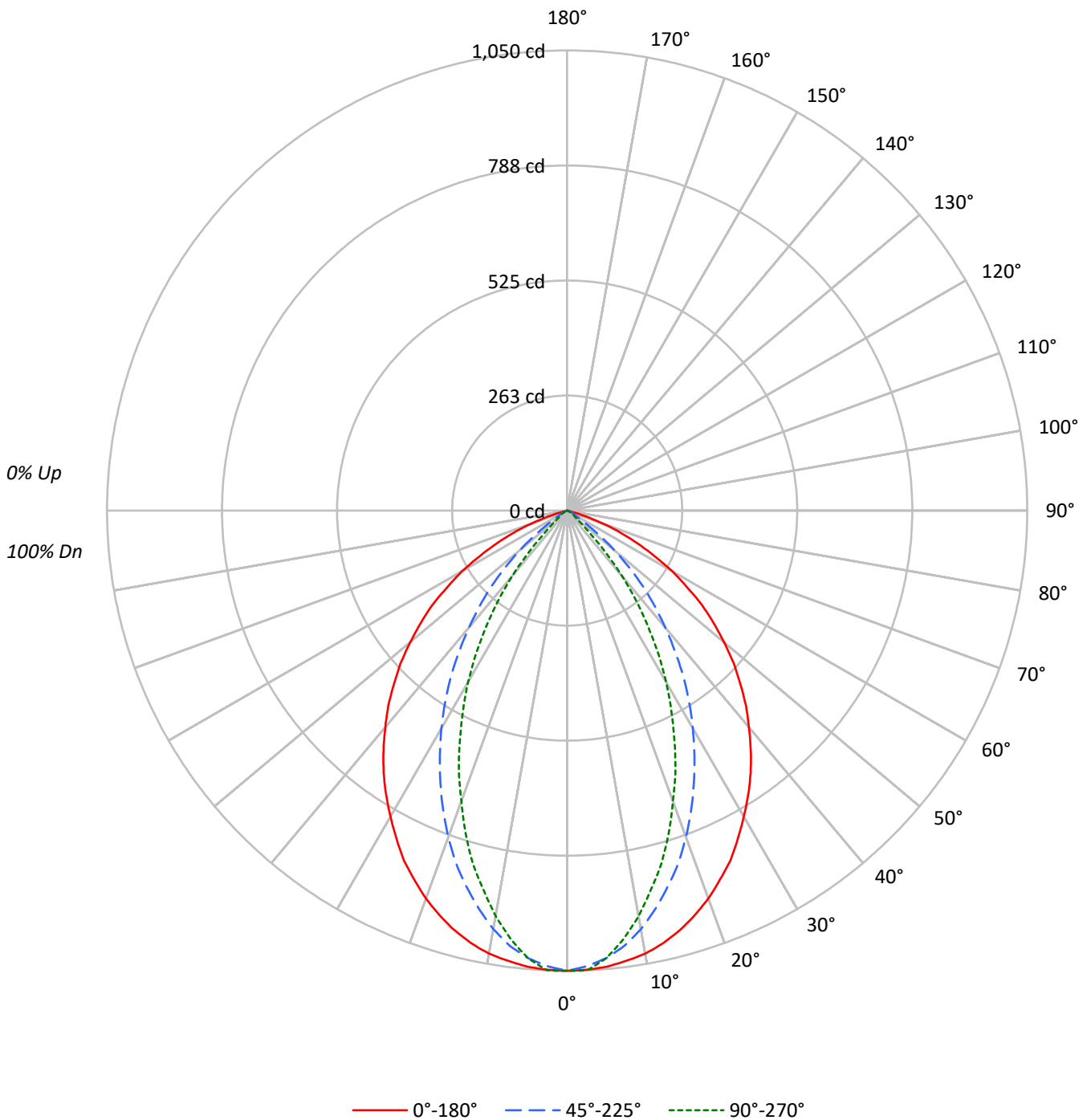
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1356.6 lumens  
Efficiency: N/A  
Efficacy: 32.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

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

	0°	45°	90°
0°	7230	7230	7230
5°	7219	7085	7085
10°	7177	6780	6566
15°	7070	6330	5935
20°	6902	5806	5166
25°	6694	5199	4399
30°	6410	4560	3590
35°	6137	3889	2690
40°	5803	3138	1743
45°	5436	2374	756
50°	5001	1514	282
55°	4506	665	199
60°	3816	286	134
65°	2889	181	68
70°	1757	85	28
75°	370	37	37
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5436 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.8	7.1
10°-20°	252.3	18.6
20°-30°	324.0	23.9
30°-40°	305.0	22.5
40°-50°	213.2	15.7
50°-60°	113.9	8.4
60°-70°	45.4	3.3
70°-80°	5.9	0.4
80°-90°	0.0	0.0
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°	673.1	49.6
0°-40°	978.1	72.1
0°-60°	1305.3	96.2
0°-90°	1356.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1044	1042	1025	1028	1025	99
15°	992	960	888	846	833	279
25°	881	804	684	610	579	404
35°	730	614	463	357	320	456
45°	558	418	244	118	78	431
55°	375	230	55	19	17	333
65°	177	71	11	6	4	176
75°	14	4	1	1	1	27
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1050.1	1050.1	1050.1	1050.1	1050.1
2.5°	1048.7	1050.1	1040.4	1048.7	1050.1
5°	1044.5	1041.8	1025.1	1027.9	1025.1
7.5°	1036.2	1029.3	1001.6	991.9	986.3
10°	1026.5	1011.3	969.7	948.9	939.2
12.5°	1011.3	989.1	930.9	899.1	885.2
15°	991.9	960.0	888.0	846.4	832.6
17.5°	968.3	926.8	843.7	792.4	771.6
20°	942.0	886.6	792.4	731.4	705.1
22.5°	911.5	847.8	739.8	671.9	645.6
25°	881.1	803.5	684.3	609.5	579.1
27.5°	843.7	757.8	628.9	548.6	515.3
30°	806.3	712.1	573.5	486.2	451.6
32.5°	768.8	663.6	518.1	421.1	386.5
35°	730.1	613.7	462.7	357.4	320.0
37.5°	688.5	563.8	403.1	296.5	257.7
40°	645.6	515.3	349.1	236.9	193.9
42.5°	604.0	466.9	295.1	178.7	131.6
45°	558.3	418.4	243.8	117.8	77.6
47.5°	515.3	371.3	191.2	67.9	40.2
50°	466.9	322.8	141.3	36.0	26.3
52.5°	421.1	275.7	94.2	23.6	20.8
55°	375.4	230.0	55.4	19.4	16.6
57.5°	322.8	185.6	30.5	15.2	12.5
60°	277.1	145.5	20.8	11.1	9.7
62.5°	224.4	106.7	15.2	8.3	6.9
65°	177.3	70.7	11.1	5.5	4.2
67.5°	131.6	41.6	6.9	2.8	2.8
70°	87.3	22.2	4.2	1.4	1.4
72.5°	45.7	9.7	2.8	1.4	1.4
75°	13.9	4.2	1.4	1.4	1.4
77.5°	0.0	1.4	0.0	0.0	1.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	15.82	17.08	16.18	17.39	17.71	0.00	0.00	0.00	0.00	0.00
	3H	16.40	17.51	16.78	17.84	18.21	0.00	0.00	0.00	0.00	0.00
	4H	16.36	17.40	16.77	17.75	18.13	0.00	0.00	0.00	0.00	0.00
	6H	16.28	17.22	16.70	17.60	17.99	0.00	0.00	0.00	0.00	0.00
	8H	16.23	17.13	16.66	17.52	17.92	0.00	0.00	0.00	0.00	0.00
	12H	16.19	17.04	16.62	17.42	17.85	0.00	0.00	0.00	0.00	0.00
4H	2H	15.59	16.62	15.99	16.97	17.36	0.00	0.00	0.00	0.00	0.00
	3H	16.18	17.02	16.60	17.42	17.83	0.00	0.00	0.00	0.00	0.00
	4H	16.13	16.87	16.57	17.29	17.74	0.00	0.00	0.00	0.00	0.00
	6H	16.04	16.68	16.51	17.13	17.60	0.00	0.00	0.00	0.00	0.00
	8H	15.98	16.58	16.46	17.03	17.50	0.00	0.00	0.00	0.00	0.00
	12H	15.93	16.45	16.42	16.94	17.41	0.00	0.00	0.00	0.00	0.00
8H	4H	15.98	16.58	16.46	17.03	17.50	0.00	0.00	0.00	0.00	0.00
	6H	15.88	16.36	16.38	16.86	17.34	0.00	0.00	0.00	0.00	0.00
	8H	15.81	16.24	16.34	16.76	17.25	0.00	0.00	0.00	0.00	0.00
	12H	15.76	16.14	16.28	16.64	17.21	0.00	0.00	0.00	0.00	0.00
12H	4H	15.93	16.46	16.42	16.94	17.41	0.00	0.00	0.00	0.00	0.00
	6H	15.81	16.24	16.34	16.76	17.25	0.00	0.00	0.00	0.00	0.00
	8H	15.76	16.14	16.28	16.64	17.21	0.00	0.00	0.00	0.00	0.00