

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: P1062078

Luminaire Tested: S125RDRP-H375D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1062078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-H375D950-X4F0-XX-UDD-SVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

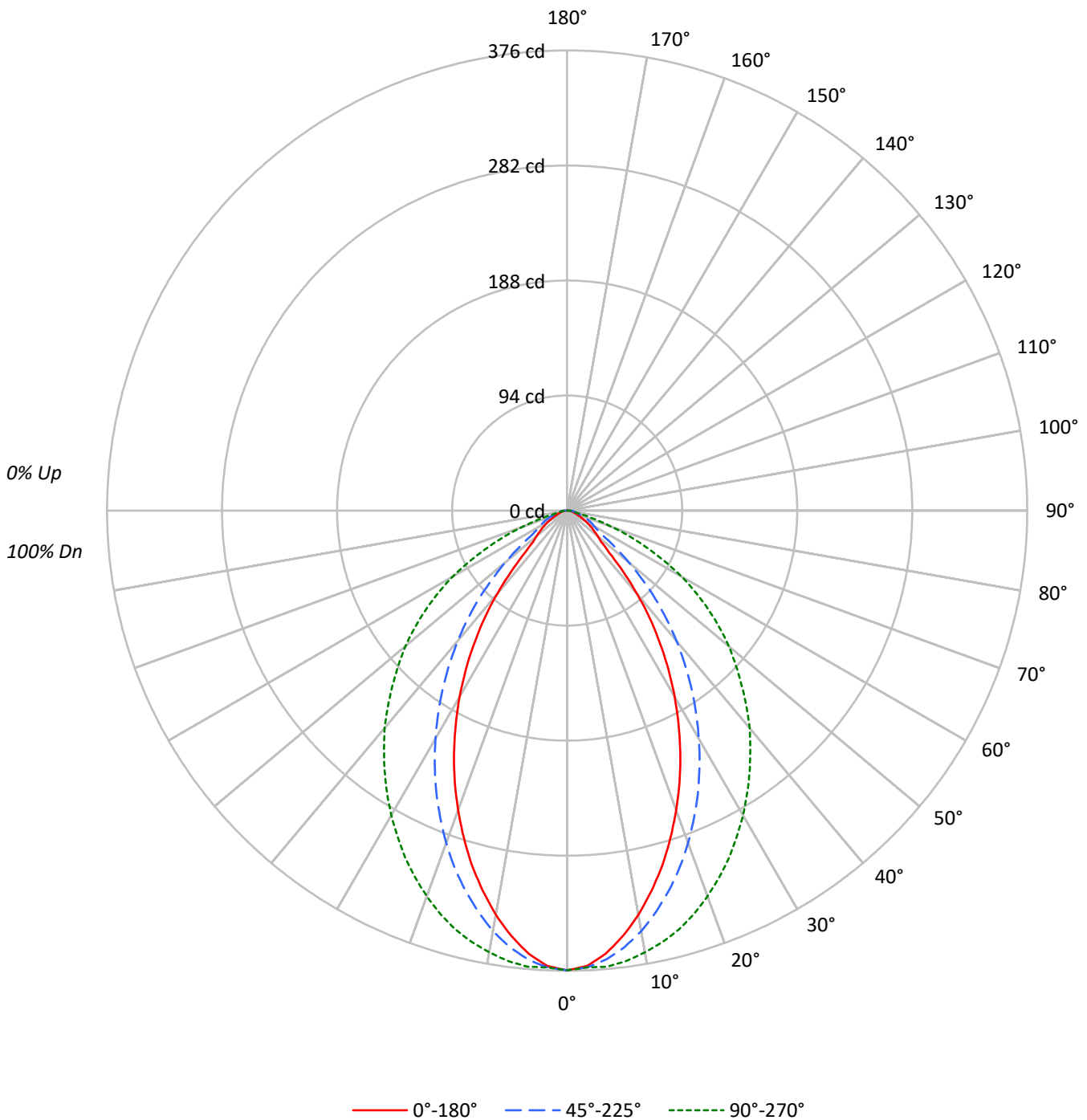
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 544.1 lumens  
Efficiency: N/A  
Efficacy: 46.5 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): 11.7  
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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	78	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	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

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

	0°	45°	90°
0°	2586	2586	2586
5°	2511	2544	2585
10°	2344	2439	2562
15°	2140	2290	2524
20°	1907	2118	2457
25°	1662	1923	2378
30°	1396	1711	2285
35°	1110	1486	2185
40°	800	1248	2084
45°	474	991	1963
50°	350	706	1848
55°	296	436	1691
60°	242	351	1490
65°	189	326	1178
70°	161	282	787
75°	149	245	319
80°	159	254	222
85°	190	379	253

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1963 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.6	6.4
10°-20°	90.9	16.7
20°-30°	118.8	21.8
30°-40°	115.8	21.3
40°-50°	86.8	16.0
50°-60°	54.4	10.0
60°-70°	28.4	5.2
70°-80°	10.3	1.9
80°-90°	4.1	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°	244.4	44.9
0°-40°	360.2	66.2
0°-60°	501.4	92.2
0°-90°	544.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	544.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	376	376	376	376	376	
5°	363	368	368	371	374	34
15°	300	309	321	341	354	84
25°	219	231	253	287	313	100
35°	132	146	177	224	260	82
45°	49	63	102	157	202	41
55°	25	26	36	95	141	22
65°	12	12	20	38	72	12
75°	6	8	9	10	12	6
85°	2	4	5	4	3	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	375.6	375.6	375.6	375.6	375.6
2.5°	372.4	376.0	373.6	373.6	373.6
5°	363.3	368.1	368.1	370.8	374.0
7.5°	350.5	356.1	359.7	366.5	371.2
10°	335.3	342.1	348.9	360.1	366.5
12.5°	318.2	326.1	335.7	351.3	360.9
15°	300.2	309.0	321.3	341.3	354.1
17.5°	280.6	291.0	305.8	329.7	345.3
20°	260.3	270.7	289.0	316.2	335.3
22.5°	239.9	251.1	271.1	301.8	324.5
25°	218.8	230.7	253.1	287.4	313.0
27.5°	197.2	209.6	234.3	272.6	300.2
30°	175.6	188.4	215.2	256.7	287.4
32.5°	154.1	167.7	196.0	240.3	273.8
35°	132.1	146.1	176.8	223.9	259.9
37.5°	111.0	124.9	157.7	207.2	245.9
40°	89.0	104.2	138.9	190.4	231.9
42.5°	67.5	83.0	120.2	173.6	216.8
45°	48.7	63.1	101.8	157.3	201.6
47.5°	37.5	45.5	83.0	140.5	186.8
50°	32.7	35.1	65.9	124.9	172.5
52.5°	28.3	29.9	49.5	110.6	156.9
55°	24.7	25.9	36.3	95.0	140.9
57.5°	20.8	22.4	28.7	79.8	124.5
60°	17.6	18.4	25.5	65.9	108.2
62.5°	14.4	15.2	22.8	51.9	89.8
65°	11.6	12.4	20.0	38.3	72.3
67.5°	9.6	10.0	16.8	27.1	55.5
70°	8.0	8.4	14.0	18.8	39.1
72.5°	6.8	8.0	11.2	13.6	24.7
75°	5.6	7.6	9.2	9.6	12.0
77.5°	4.8	7.2	7.6	7.6	6.8
80°	4.0	6.0	6.4	6.0	5.6
82.5°	3.2	4.8	5.2	5.2	4.4
85°	2.4	4.0	4.8	4.4	3.2
87.5°	1.6	3.6	4.0	3.6	2.4
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	3.23	4.59	3.60	4.90	5.21	12.83	14.18	13.19	14.49	14.81
	3H	4.09	5.29	4.47	5.62	5.99	13.67	14.87	14.05	15.20	15.56
	4H	4.51	5.63	4.92	5.98	6.37	13.75	14.86	14.15	15.22	15.60
	6H	4.94	5.97	5.36	6.34	6.74	13.73	14.76	14.14	15.13	15.52
	8H	5.12	6.10	5.55	6.49	6.89	13.72	14.69	14.15	15.08	15.49
	12H	5.28	6.22	5.72	6.60	7.03	13.70	14.64	14.14	15.02	15.45
4H	2H	4.20	5.32	4.60	5.67	6.05	12.69	13.81	13.10	14.16	14.55
	3H	5.25	6.17	5.66	6.57	6.97	13.60	14.52	14.02	14.92	15.33
	4H	5.81	6.63	6.25	7.05	7.49	13.71	14.53	14.14	14.94	15.39
	6H	6.41	7.12	6.87	7.56	8.03	13.73	14.44	14.20	14.89	15.35
	8H	6.65	7.31	7.12	7.76	8.23	13.74	14.40	14.20	14.84	15.31
	12H	6.87	7.46	7.36	7.94	8.42	13.75	14.33	14.23	14.82	15.29
8H	4H	6.28	6.94	6.75	7.39	7.86	13.63	14.29	14.10	14.74	15.21
	6H	7.10	7.64	7.60	8.13	8.61	13.69	14.23	14.19	14.72	15.20
	8H	7.48	7.96	8.00	8.48	8.97	13.72	14.21	14.24	14.72	15.21
	12H	7.87	8.30	8.38	8.79	9.36	13.78	14.21	14.30	14.71	15.28
12H	4H	6.33	6.92	6.82	7.40	7.87	13.60	14.18	14.08	14.67	15.14
	6H	7.22	7.70	7.74	8.22	8.71	13.65	14.14	14.17	14.65	15.15
	8H	7.71	8.14	8.22	8.63	9.20	13.72	14.15	14.24	14.65	15.22