

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: P1061997

Luminaire Tested: S125RDRP-H1270D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061997  
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-H1270D950-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: -

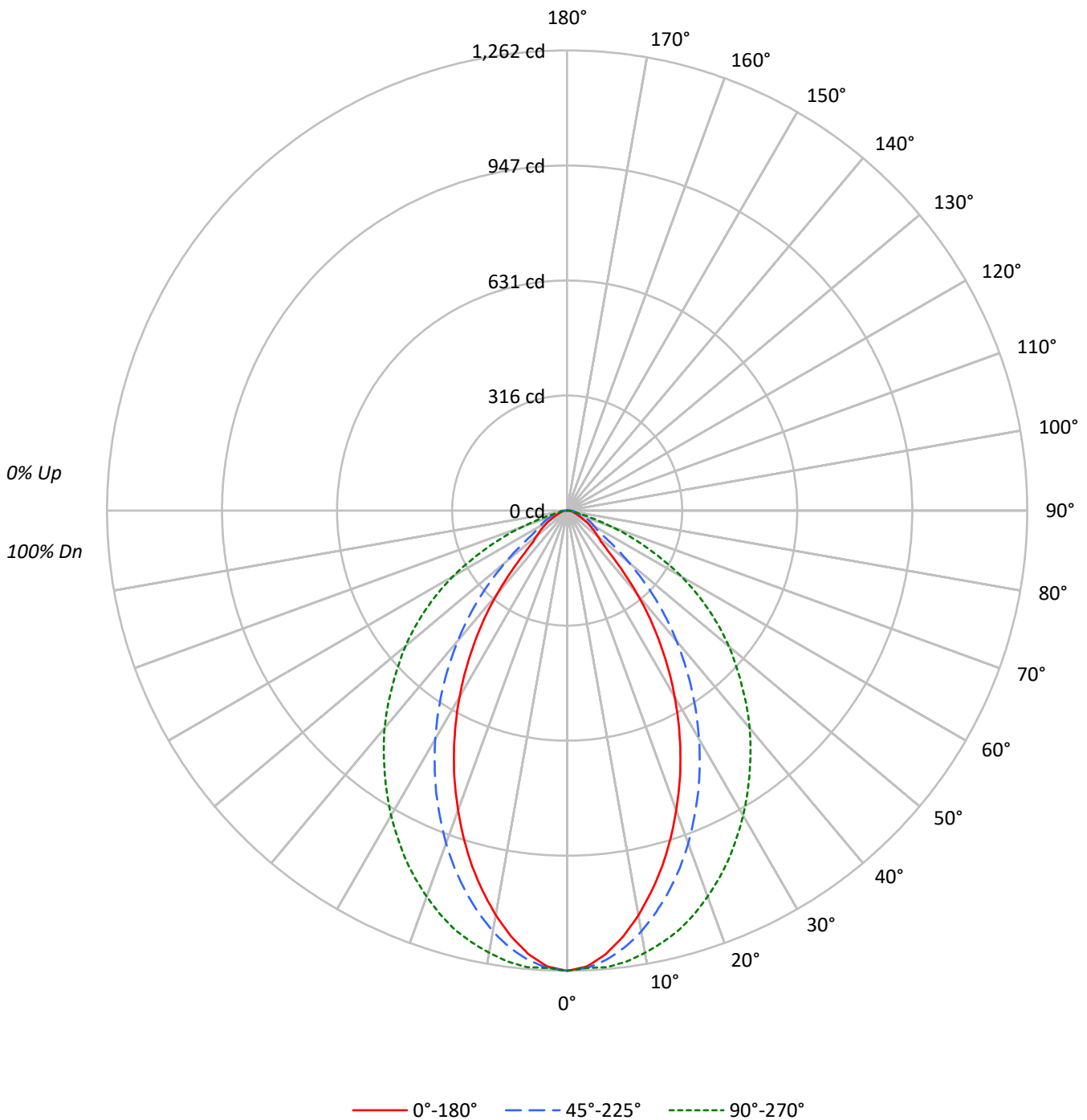
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1828.2 lumens  
Efficiency: N/A  
Efficacy: 50.1 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): 36.5  
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	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	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°	8690	8690	8690
5°	8436	8548	8686
10°	7877	8196	8609
15°	7189	7696	8480
20°	6408	7115	8255
25°	5584	6461	7989
30°	4692	5748	7678
35°	3732	4994	7340
40°	2688	4196	7004
45°	1593	3330	6595
50°	1178	2370	6206
55°	999	1466	5684
60°	812	1182	5006
65°	634	1093	3956
70°	540	944	2645
75°	500	819	1069
80°	531	852	745
85°	632	1272	845

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6595 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.3	6.4
10°-20°	305.5	16.7
20°-30°	399.3	21.8
30°-40°	389.0	21.3
40°-50°	291.8	16.0
50°-60°	182.9	10.0
60°-70°	95.2	5.2
70°-80°	34.4	1.9
80°-90°	13.7	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°	821.2	44.9
0°-40°	1210.2	66.2
0°-60°	1684.9	92.2
0°-90°	1828.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1828.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1221	1237	1237	1246	1257	114
15°	1009	1038	1080	1147	1190	281
25°	735	775	850	966	1052	336
35°	444	491	594	752	873	276
45°	164	212	342	528	677	138
55°	83	87	122	319	474	74
65°	39	42	67	129	243	40
75°	19	26	31	32	40	21
85°	8	13	16	15	11	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1262.1	1262.1	1262.1	1262.1	1262.1
2.5°	1251.4	1263.5	1255.4	1255.4	1255.4
5°	1220.6	1236.7	1236.7	1246.1	1256.8
7.5°	1177.6	1196.4	1208.5	1231.3	1247.4
10°	1126.7	1149.5	1172.3	1209.8	1231.3
12.5°	1069.0	1095.8	1128.0	1180.3	1212.5
15°	1008.6	1038.2	1079.7	1146.8	1189.7
17.5°	942.9	977.8	1027.4	1107.9	1160.2
20°	874.5	909.4	971.1	1062.3	1126.7
22.5°	806.1	843.7	910.7	1014.0	1090.5
25°	735.0	775.3	850.4	965.7	1051.6
27.5°	662.6	704.2	787.3	916.1	1008.6
30°	590.2	633.1	723.0	862.4	965.7
32.5°	517.7	563.3	658.6	807.5	920.1
35°	444.0	490.9	594.2	752.5	873.2
37.5°	372.9	419.8	529.8	696.1	826.2
40°	299.1	350.1	466.8	639.8	779.3
42.5°	226.7	279.0	403.7	583.5	728.3
45°	163.6	211.9	342.0	528.5	677.3
47.5°	126.1	152.9	279.0	472.1	627.7
50°	110.0	118.0	221.3	419.8	579.4
52.5°	95.2	100.6	166.3	371.5	527.1
55°	83.2	87.2	122.1	319.2	473.5
57.5°	69.7	75.1	96.6	268.3	418.5
60°	59.0	61.7	85.8	221.3	363.5
62.5°	48.3	51.0	76.5	174.4	301.8
65°	38.9	41.6	67.1	128.8	242.8
67.5°	32.2	33.5	56.3	91.2	186.4
70°	26.8	28.2	46.9	63.0	131.4
72.5°	22.8	26.8	37.6	45.6	83.2
75°	18.8	25.5	30.8	32.2	40.2
77.5°	16.1	24.1	25.5	25.5	22.8
80°	13.4	20.1	21.5	20.1	18.8
82.5°	10.7	16.1	17.4	17.4	14.8
85°	8.0	13.4	16.1	14.8	10.7
87.5°	5.4	12.1	13.4	12.1	8.0
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	7.43	8.78	7.79	9.09	9.41	17.04	18.40	17.41	18.71	19.02
	3H	8.29	9.49	8.67	9.82	10.18	17.88	19.08	18.26	19.41	19.78
	4H	8.71	9.83	9.11	10.18	10.56	17.96	19.08	18.36	19.43	19.81
	6H	9.14	10.17	9.55	10.54	10.93	17.94	18.97	18.36	19.34	19.73
	8H	9.32	10.29	9.75	10.68	11.09	17.93	18.90	18.36	19.29	19.70
	12H	9.48	10.41	9.91	10.79	11.22	17.92	18.85	18.35	19.23	19.66
4H	2H	8.39	9.51	8.79	9.86	10.24	16.91	18.03	17.31	18.38	18.76
	3H	9.45	10.36	9.86	10.77	11.17	17.82	18.73	18.23	19.14	19.54
	4H	10.01	10.83	10.44	11.25	11.69	17.92	18.74	18.35	19.16	19.60
	6H	10.61	11.31	11.07	11.76	12.23	17.95	18.65	18.41	19.10	19.56
	8H	10.84	11.51	11.31	11.95	12.42	17.95	18.61	18.42	19.05	19.53
	12H	11.07	11.65	11.55	12.14	12.61	17.96	18.54	18.45	19.03	19.50
8H	4H	10.48	11.14	10.95	11.59	12.06	17.84	18.50	18.31	18.95	19.42
	6H	11.29	11.83	11.79	12.33	12.81	17.90	18.44	18.40	18.93	19.42
	8H	11.67	12.16	12.19	12.67	13.16	17.93	18.42	18.45	18.93	19.42
	12H	12.06	12.49	12.58	12.99	13.56	17.99	18.42	18.51	18.92	19.49
12H	4H	10.53	11.12	11.02	11.60	12.07	17.81	18.39	18.30	18.88	19.35
	6H	11.41	11.90	11.93	12.41	12.91	17.86	18.35	18.38	18.87	19.36
	8H	11.90	12.33	12.42	12.83	13.40	17.94	18.36	18.45	18.86	19.43