

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: P1175364

Luminaire Tested: S125RDRP-S1270D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1175364  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/18/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1270D950-X4F0-XX-UDD-WVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

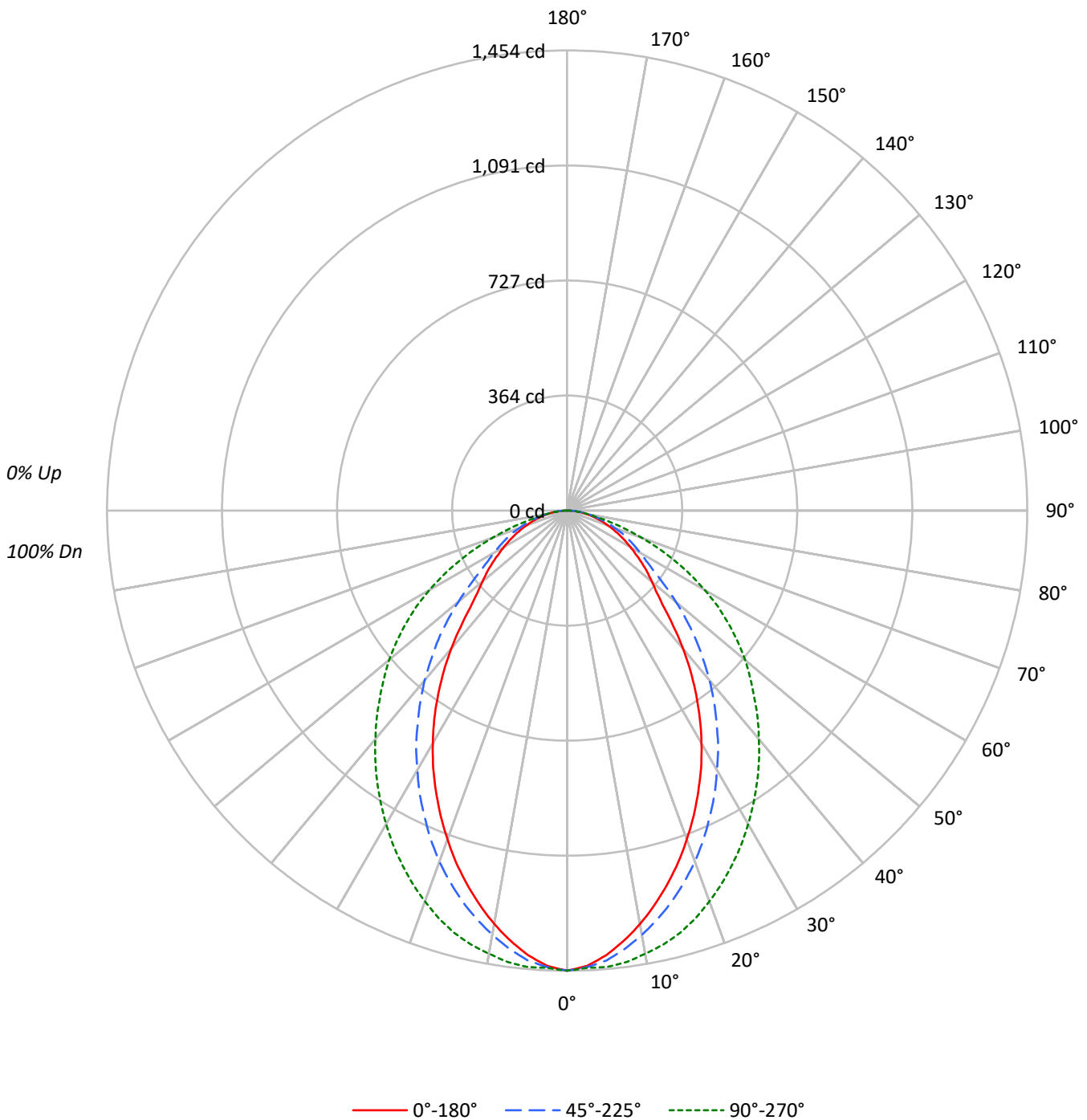
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2738.8 lumens  
Efficiency: N/A  
Efficacy: 65.5 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): 41.8  
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	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	73	69	77	72	68	74	70	66	64																												
4	86	75	67	61	84	74	66	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	47	59	52	47	58	51	47	56	51	46	44																												
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40																												
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36																												
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33																												
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30																												

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

	0°	45°	90°
0°	10009	10009	10009
5°	9749	9860	10005
10°	9275	9517	9940
15°	8718	9113	9843
20°	8102	8645	9630
25°	7444	8100	9375
30°	6750	7525	9095
35°	5975	6918	8796
40°	5124	6289	8474
45°	4205	5600	8147
50°	3740	4812	7865
55°	3451	4030	7467
60°	3178	3671	6917
65°	2955	3459	6113
70°	2758	3229	4993
75°	2594	2987	3743
80°	2446	2740	2692
85°	2244	2733	2244

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8147 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.6	4.9
10°-20°	362.8	13.2
20°-30°	499.1	18.2
30°-40°	529.3	19.3
40°-50°	463.3	16.9
50°-60°	355.5	13.0
60°-70°	236.8	8.6
70°-80°	121.4	4.4
80°-90°	36.0	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°	996.4	36.4
0°-40°	1525.7	55.7
0°-60°	2344.5	85.6
0°-90°	2738.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2738.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1411	1429	1427	1436	1448	132
15°	1223	1251	1278	1339	1381	343
25°	980	1013	1066	1156	1234	450
35°	711	744	823	944	1046	443
45°	432	468	575	718	837	341
55°	288	294	336	499	622	258
65°	181	183	212	279	375	181
75°	98	104	112	118	141	104
85°	28	32	35	33	28	32
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1453.7	1453.7	1453.7	1453.7	1453.7
2.5°	1440.2	1455.0	1443.9	1445.1	1446.3
5°	1410.6	1429.1	1426.6	1436.5	1447.6
7.5°	1371.1	1390.8	1397.0	1421.7	1438.9
10°	1326.6	1348.8	1361.2	1398.2	1421.7
12.5°	1276.0	1302.0	1321.7	1369.8	1404.4
15°	1223.0	1251.4	1278.5	1339.0	1380.9
17.5°	1166.2	1194.6	1230.4	1299.5	1350.1
20°	1105.7	1136.6	1179.8	1253.8	1314.3
22.5°	1044.0	1076.1	1125.5	1206.9	1276.0
25°	979.9	1013.2	1066.2	1156.3	1234.1
27.5°	916.9	947.8	1009.5	1105.7	1190.9
30°	849.0	881.1	946.5	1052.7	1144.0
32.5°	781.2	813.3	888.5	999.6	1095.9
35°	710.8	744.1	823.1	944.1	1046.5
37.5°	640.5	675.0	762.7	887.3	995.9
40°	570.1	607.2	699.7	830.5	942.8
42.5°	498.6	538.1	635.6	775.0	891.0
45°	431.9	467.7	575.1	718.2	836.7
47.5°	383.8	404.8	510.9	660.2	784.9
50°	349.2	359.1	449.2	604.7	734.3
52.5°	318.4	324.6	388.7	552.9	678.7
55°	287.5	293.7	335.7	498.6	622.0
57.5°	257.9	261.6	296.2	444.3	565.2
60°	230.8	233.2	266.6	390.0	502.3
62.5°	206.1	207.3	238.2	334.4	439.3
65°	181.4	182.6	212.3	278.9	375.2
67.5°	159.2	159.2	187.6	228.3	313.5
70°	137.0	137.0	160.4	185.1	248.0
72.5°	117.2	119.7	135.7	149.3	193.8
75°	97.5	103.7	112.3	118.5	140.7
77.5°	79.0	86.4	90.1	92.6	93.8
80°	61.7	66.6	69.1	70.3	67.9
82.5°	45.7	49.4	50.6	50.6	46.9
85°	28.4	32.1	34.6	33.3	28.4
87.5°	13.6	18.5	19.7	17.3	13.6
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	14.62	16.12	14.98	16.43	16.74	18.64	20.14	19.01	20.46	20.77
	3H	16.21	17.55	16.58	17.88	18.24	20.03	21.38	20.41	21.70	22.07
	4H	16.85	18.11	17.25	18.46	18.84	20.44	21.70	20.84	22.05	22.43
	6H	17.36	18.52	17.77	18.89	19.28	20.64	21.81	21.06	22.17	22.57
	8H	17.54	18.65	17.97	19.04	19.44	20.70	21.81	21.13	22.20	22.60
	12H	17.67	18.73	18.10	19.11	19.54	20.73	21.79	21.16	22.18	22.61
4H	2H	15.39	16.65	15.79	17.00	17.38	18.77	20.03	19.17	20.38	20.76
	3H	17.17	18.22	17.58	18.62	19.02	20.34	21.39	20.75	21.79	22.19
	4H	17.94	18.88	18.37	19.30	19.74	20.85	21.79	21.29	22.21	22.65
	6H	18.58	19.40	19.04	19.84	20.30	21.18	22.00	21.64	22.44	22.90
	8H	18.81	19.57	19.27	20.02	20.49	21.28	22.04	21.74	22.49	22.96
	12H	18.98	19.66	19.46	20.14	20.61	21.35	22.03	21.83	22.51	22.98
8H	4H	18.32	19.09	18.79	19.53	20.00	20.95	21.72	21.42	22.16	22.63
	6H	19.10	19.73	19.60	20.22	20.70	21.37	22.00	21.87	22.50	22.97
	8H	19.42	19.98	19.93	20.49	20.98	21.53	22.10	22.05	22.61	23.10
	12H	19.68	20.18	20.19	20.67	21.24	21.67	22.17	22.18	22.66	23.23
12H	4H	18.36	19.05	18.84	19.52	20.00	20.95	21.64	21.43	22.11	22.59
	6H	19.17	19.74	19.69	20.25	20.74	21.38	21.95	21.90	22.46	22.95
	8H	19.56	20.06	20.07	20.55	21.12	21.59	22.10	22.10	22.59	23.15