

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: P1058109

Luminaire Tested: S122RDRP-S675D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1058109  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDRP-S675D950-X4F0-XX-UDD-SVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

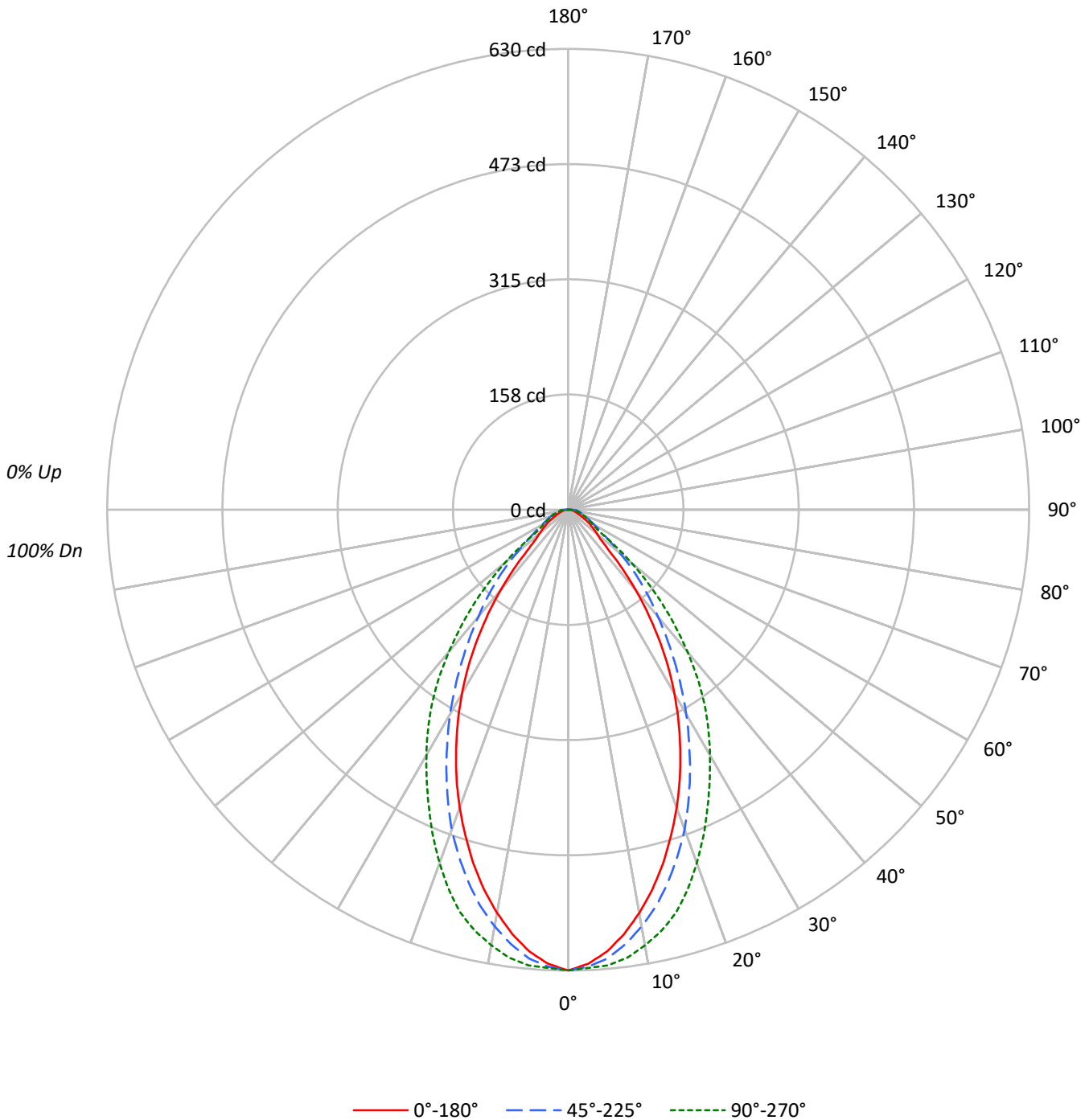
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 764.0 lumens  
Efficiency: N/A  
Efficacy: 29.6 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 25.8  
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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	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	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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

	0°	45°	90°
0°	11621	11621	11621
5°	11232	11406	11581
10°	10485	10838	11328
15°	9565	10066	10887
20°	8509	9133	10089
25°	7374	8022	9166
30°	6181	6880	8254
35°	4870	5692	7314
40°	3471	4598	6109
45°	2051	3638	4739
50°	1478	2632	3224
55°	1235	1898	1625
60°	1000	1520	1380
65°	816	1349	1266
70°	707	1311	1214
75°	670	1333	1198
80°	701	1594	1296
85°	995	2583	1588

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4739 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.8	7.6
10°-20°	148.4	19.4
20°-30°	183.1	24.0
30°-40°	162.9	21.3
40°-50°	103.9	13.6
50°-60°	49.9	6.5
60°-70°	29.3	3.8
70°-80°	18.7	2.4
80°-90°	10.0	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°	389.3	51.0
0°-40°	552.1	72.3
0°-60°	706.0	92.4
0°-90°	764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	764.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	606	618	616	620	625	56
15°	501	513	527	551	570	140
25°	362	376	394	422	450	166
35°	216	233	253	291	325	134
45°	79	102	139	162	182	66
55°	38	50	59	57	50	35
65°	19	34	31	28	29	19
75°	9	21	19	18	17	10
85°	5	11	12	10	8	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	629.8	629.8	629.8	629.8	629.8
2.5°	621.4	631.7	625.2	625.2	627.0
5°	606.4	617.7	615.8	619.5	625.2
7.5°	584.9	597.1	599.0	609.3	617.7
10°	559.6	572.8	578.4	593.3	604.6
12.5°	531.6	544.7	555.0	573.7	589.6
15°	500.7	512.9	526.9	551.2	569.9
17.5°	467.0	482.9	496.9	522.2	543.7
20°	433.3	448.3	465.1	489.5	513.8
22.5°	398.7	412.7	429.6	454.8	482.9
25°	362.2	376.2	394.0	422.1	450.2
27.5°	326.6	340.7	357.5	388.4	418.3
30°	290.1	304.2	322.9	354.7	387.4
32.5°	253.6	268.6	287.3	321.9	356.6
35°	216.2	233.0	252.7	291.1	324.7
37.5°	179.7	196.5	220.9	258.3	290.1
40°	144.1	163.8	190.9	224.6	253.6
42.5°	109.5	131.0	164.7	191.9	217.1
45°	78.6	102.0	139.4	161.9	181.6
47.5°	59.9	76.7	115.1	132.9	146.9
50°	51.5	61.8	91.7	104.8	112.3
52.5°	44.9	54.3	73.0	79.5	79.5
55°	38.4	49.6	59.0	57.1	50.5
57.5°	32.8	44.9	48.7	41.2	43.0
60°	27.1	41.2	41.2	36.5	37.4
62.5°	22.5	38.4	35.6	31.8	32.8
65°	18.7	33.7	30.9	28.1	29.0
67.5°	15.0	29.9	27.1	25.3	25.3
70°	13.1	27.1	24.3	22.5	22.5
72.5°	11.2	23.4	21.5	19.7	19.7
75°	9.4	20.6	18.7	17.8	16.8
77.5°	8.4	17.8	16.8	15.0	14.0
80°	6.6	15.0	15.0	14.0	12.2
82.5°	5.6	13.1	13.1	12.2	10.3
85°	4.7	11.2	12.2	10.3	7.5
87.5°	3.7	10.3	10.3	8.4	5.6
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	10.19	11.47	10.56	11.78	12.10	9.99	11.26	10.35	11.57	11.89
	3H	11.42	12.56	11.80	12.89	13.25	11.58	12.72	11.96	13.05	13.41
	4H	11.88	12.94	12.28	13.29	13.67	12.30	13.36	12.70	13.71	14.09
	6H	12.26	13.23	12.67	13.60	14.00	12.95	13.92	13.36	14.29	14.69
	8H	12.41	13.33	12.84	13.73	14.13	13.28	14.20	13.71	14.59	15.00
	12H	12.57	13.45	13.00	13.84	14.27	13.58	14.46	14.01	14.84	15.27
4H	2H	10.74	11.80	11.15	12.15	12.54	10.58	11.64	10.98	11.99	12.37
	3H	12.44	13.31	12.85	13.71	14.11	12.42	13.29	12.83	13.69	14.10
	4H	13.23	14.01	13.67	14.43	14.88	13.29	14.07	13.73	14.49	14.94
	6H	13.88	14.55	14.34	15.00	15.47	14.13	14.81	14.60	15.26	15.73
	8H	14.13	14.76	14.60	15.21	15.68	14.56	15.19	15.03	15.64	16.11
	12H	14.37	14.93	14.86	15.42	15.89	14.96	15.52	15.45	16.01	16.48
8H	4H	13.65	14.28	14.12	14.73	15.20	13.71	14.34	14.18	14.79	15.26
	6H	14.63	15.15	15.13	15.65	16.13	14.79	15.31	15.29	15.81	16.29
	8H	15.12	15.59	15.64	16.10	16.60	15.39	15.85	15.91	16.37	16.86
	12H	15.62	16.04	16.14	16.53	17.10	15.99	16.40	16.50	16.90	17.47
12H	4H	13.72	14.28	14.20	14.76	15.23	13.78	14.34	14.27	14.83	15.30
	6H	14.80	15.27	15.32	15.78	16.27	14.96	15.42	15.48	15.94	16.43
	8H	15.43	15.85	15.95	16.34	16.91	15.67	16.08	16.19	16.58	17.15