

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: P1058084

Luminaire Tested: S122RDRP-S675D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1058084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDRP-S675D930-X4F0-XX-UDD-WVL-S  
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

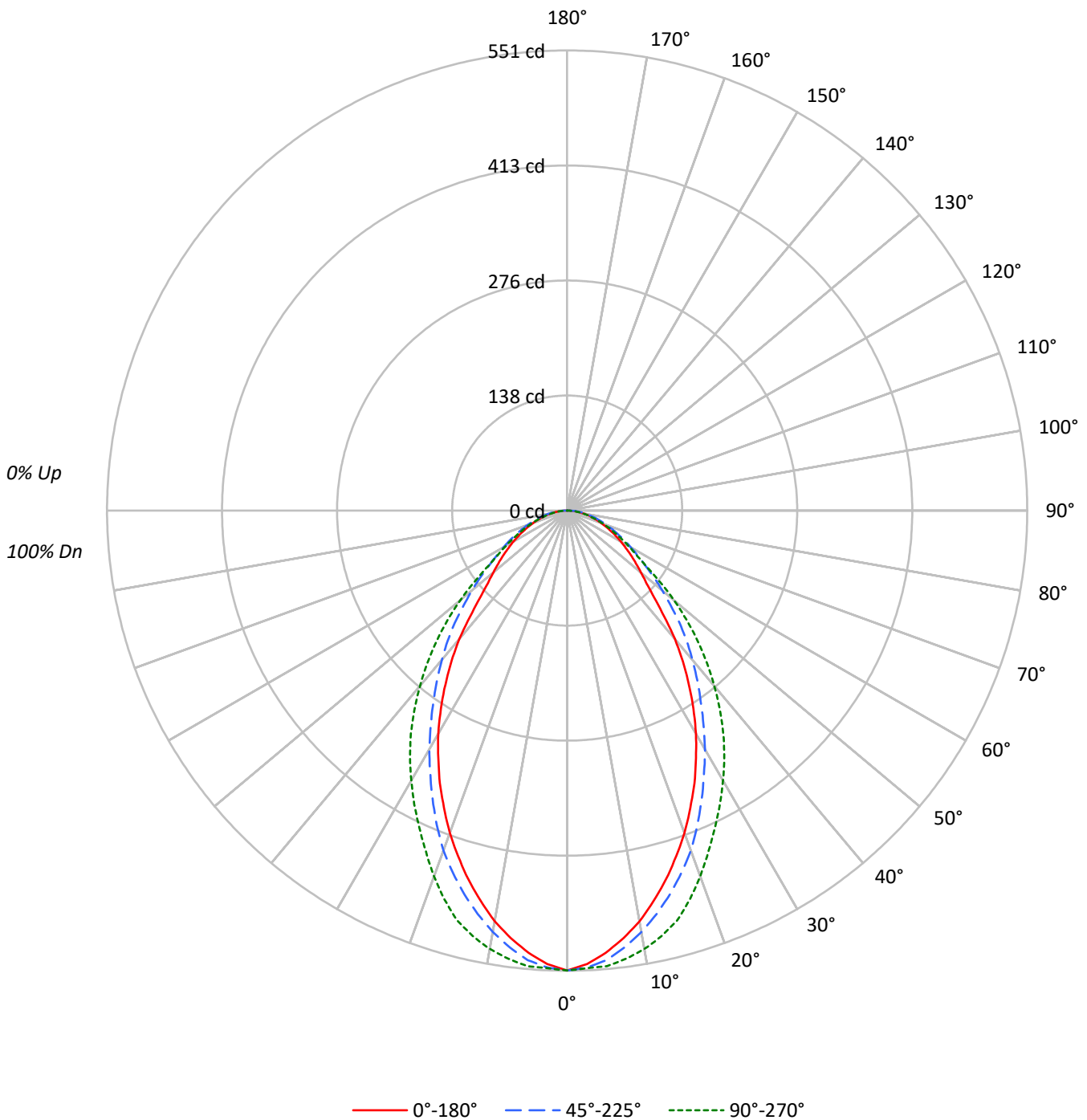
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 896.7 lumens  
Efficiency: N/A  
Efficacy: 34.8 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05  
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33

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

	0°	45°	90°
0°	10162	10162	10162
5°	9845	10008	10141
10°	9359	9599	9989
15°	8734	9086	9710
20°	8067	8507	9151
25°	7340	7761	8527
30°	6573	7033	7954
35°	5726	6283	7346
40°	4832	5622	6603
45°	3839	4963	5778
50°	3304	4269	4794
55°	3008	3651	3677
60°	2742	3244	3126
65°	2511	2930	2755
70°	2331	2719	2460
75°	2167	2567	2167
80°	2040	2465	1955
85°	2032	2541	1694

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5778 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	5.7
10°-20°	134.4	15.0
20°-30°	176.9	19.7
30°-40°	177.8	19.8
40°-50°	144.1	16.1
50°-60°	99.3	11.1
60°-70°	65.0	7.2
70°-80°	36.2	4.0
80°-90°	12.3	1.4
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°	362.1	40.4
0°-40°	539.9	60.2
0°-60°	783.3	87.3
0°-90°	896.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	551	551	551	551	551	
5°	532	542	540	543	548	50
15°	457	468	476	493	508	128
25°	360	370	381	398	419	165
35°	254	266	279	304	326	159
45°	147	164	190	207	221	116
55°	94	104	114	116	114	84
65°	58	69	67	64	63	57
75°	30	38	36	32	30	32
85°	10	13	12	10	8	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	550.7	550.7	550.7	550.7	550.7
2.5°	543.5	553.1	547.5	547.5	548.3
5°	531.5	541.9	540.3	542.7	547.5
7.5°	516.3	527.5	527.5	534.7	541.1
10°	499.5	510.7	512.3	523.5	533.1
12.5°	478.8	489.9	494.7	509.1	521.9
15°	457.2	468.4	475.6	493.1	508.3
17.5°	434.0	445.2	454.8	473.2	488.3
20°	410.8	421.2	433.2	449.2	466.0
22.5°	385.2	396.4	407.6	422.8	442.0
25°	360.5	370.1	381.2	398.0	418.8
27.5°	334.1	344.5	354.9	374.9	396.4
30°	308.5	318.9	330.1	350.9	373.3
32.5°	281.3	292.5	303.7	326.9	350.1
35°	254.2	266.2	278.9	303.7	326.1
37.5°	227.8	240.6	255.8	281.3	300.5
40°	200.6	214.2	233.4	255.8	274.1
42.5°	171.8	188.6	211.8	231.0	247.8
45°	147.1	163.8	190.2	207.0	221.4
47.5°	128.7	142.3	167.8	182.2	194.2
50°	115.1	125.5	148.7	159.1	167.0
52.5°	103.9	114.3	130.3	137.5	139.9
55°	93.5	103.9	113.5	115.9	114.3
57.5°	83.1	94.3	99.9	97.5	97.5
60°	74.3	86.3	87.9	84.7	84.7
62.5°	65.5	77.5	77.5	73.5	73.5
65°	57.5	68.7	67.1	63.9	63.1
67.5°	50.4	60.7	58.3	55.1	54.3
70°	43.2	52.8	50.4	46.4	45.6
72.5°	36.8	45.6	42.4	39.2	37.6
75°	30.4	37.6	36.0	32.0	30.4
77.5°	24.8	30.4	28.8	25.6	24.0
80°	19.2	24.0	23.2	20.0	18.4
82.5°	14.4	18.4	17.6	15.2	12.8
85°	9.6	12.8	12.0	10.4	8.0
87.5°	4.8	8.8	8.0	7.2	4.0
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	14.78	16.22	15.15	16.54	16.85	15.14	16.58	15.51	16.90	17.21
	3H	16.33	17.62	16.71	17.95	18.31	16.49	17.78	16.87	18.11	18.47
	4H	16.90	18.11	17.30	18.46	18.84	16.97	18.18	17.37	18.53	18.91
	6H	17.33	18.45	17.75	18.82	19.21	17.33	18.44	17.74	18.81	19.20
	8H	17.49	18.55	17.91	18.94	19.34	17.44	18.50	17.87	18.89	19.30
	12H	17.60	18.62	18.03	19.00	19.43	17.52	18.53	17.95	18.92	19.35
4H	2H	15.37	16.58	15.77	16.93	17.31	15.66	16.87	16.06	17.22	17.60
	3H	17.19	18.19	17.60	18.60	19.00	17.23	18.23	17.64	18.63	19.04
	4H	17.94	18.84	18.38	19.26	19.70	17.84	18.74	18.27	19.15	19.60
	6H	18.53	19.31	18.99	19.76	20.22	18.32	19.10	18.78	19.55	20.01
	8H	18.74	19.47	19.20	19.92	20.39	18.48	19.22	18.95	19.66	20.13
	12H	18.91	19.56	19.39	20.04	20.51	18.61	19.26	19.09	19.74	20.21
8H	4H	18.23	18.96	18.69	19.40	19.87	18.14	18.87	18.60	19.32	19.78
	6H	18.98	19.59	19.48	20.08	20.56	18.76	19.36	19.26	19.85	20.33
	8H	19.31	19.85	19.82	20.36	20.85	19.01	19.55	19.52	20.06	20.55
	12H	19.59	20.07	20.11	20.57	21.13	19.22	19.70	19.73	20.19	20.76
12H	4H	18.25	18.90	18.73	19.38	19.85	18.17	18.83	18.66	19.31	19.78
	6H	19.04	19.59	19.56	20.10	20.59	18.83	19.38	19.35	19.89	20.38
	8H	19.44	19.92	19.95	20.42	20.98	19.15	19.63	19.67	20.13	20.69