

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: P1058072

Luminaire Tested: S122RDRP-S675D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1058072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDRP-S675D927-X4F0-XX-UDD-SVL-S  
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

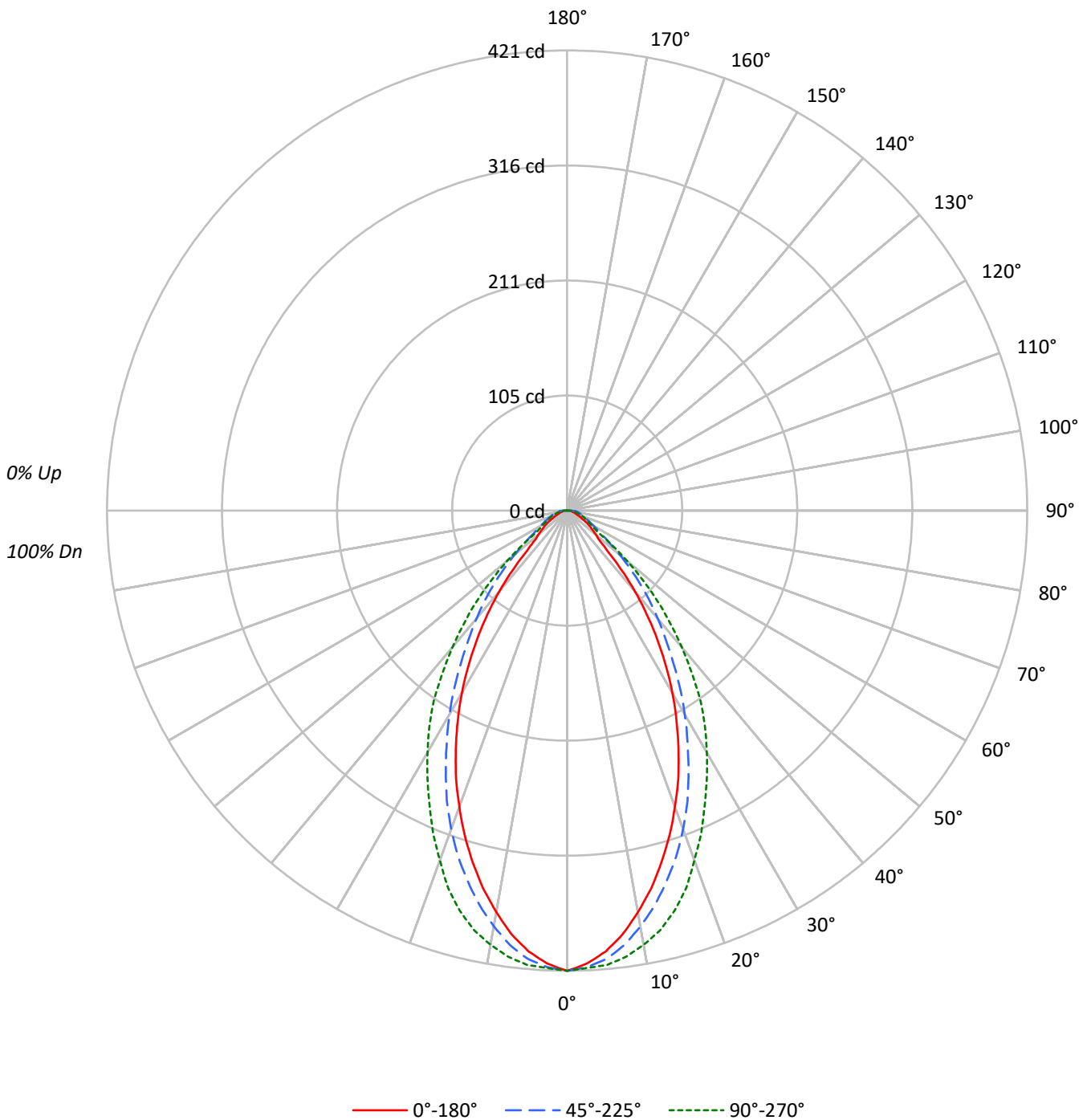
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 508.1 lumens  
Efficiency: N/A  
Efficacy: 19.7 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94  
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	101	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	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	66	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	44	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°	7770	7770	7770
5°	7498	7628	7730
10°	6989	7236	7557
15°	6367	6709	7244
20°	5661	6087	6682
25°	4905	5347	6059
30°	4106	4585	5446
35°	3237	3798	4796
40°	2320	3107	3931
45°	1360	2453	3043
50°	982	1786	2053
55°	824	1274	1075
60°	661	1033	919
65°	541	917	847
70°	459	879	798
75°	442	941	777
80°	499	1158	829
85°	826	1800	1143

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3043 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.6	7.6
10°-20°	98.9	19.5
20°-30°	121.5	23.9
30°-40°	107.4	21.1
40°-50°	68.6	13.5
50°-60°	33.5	6.6
60°-70°	19.9	3.9
70°-80°	12.7	2.5
80°-90°	7.0	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°	259.0	51.0
0°-40°	366.4	72.1
0°-60°	468.4	92.2
0°-90°	508.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	421	421	421	421	421	
5°	405	413	412	413	417	38
15°	333	343	351	367	379	93
25°	241	249	263	279	298	110
35°	144	152	169	192	213	89
45°	52	67	94	106	117	44
55°	26	34	40	37	33	23
65°	12	23	21	19	19	12
75°	6	14	13	12	11	7
85°	4	8	8	8	5	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	421.1	421.1	421.1	421.1	421.1
2.5°	414.9	422.7	418.0	418.0	418.8
5°	404.8	413.4	411.8	413.4	417.3
7.5°	390.8	399.4	400.9	407.2	411.8
10°	373.0	381.5	386.2	396.3	403.3
12.5°	354.3	362.9	369.9	383.1	393.2
15°	333.3	342.7	351.2	366.8	379.2
17.5°	311.6	320.9	331.8	347.3	362.1
20°	288.3	296.8	310.0	324.8	340.3
22.5°	265.7	273.5	287.5	301.5	320.1
25°	240.9	249.4	262.6	278.9	297.6
27.5°	216.8	225.3	238.5	257.2	276.6
30°	192.7	200.5	215.2	234.7	255.6
32.5°	167.8	175.6	191.9	212.9	234.7
35°	143.7	151.5	168.6	191.9	212.9
37.5°	119.7	128.2	147.6	169.4	187.3
40°	96.3	106.5	129.0	147.6	163.2
42.5°	73.0	87.0	111.1	126.7	139.1
45°	52.1	66.8	94.0	105.7	116.6
47.5°	39.6	51.3	77.7	86.2	93.2
50°	34.2	42.0	62.2	68.4	71.5
52.5°	29.5	37.3	49.7	52.1	50.5
55°	25.6	34.2	39.6	37.3	33.4
57.5°	21.8	31.9	32.6	28.0	28.7
60°	17.9	28.7	28.0	24.1	24.9
62.5°	14.8	26.4	24.1	21.8	21.8
65°	12.4	23.3	21.0	19.4	19.4
67.5°	10.1	21.0	18.6	17.1	17.1
70°	8.5	18.6	16.3	14.8	14.8
72.5°	7.8	16.3	14.8	13.2	13.2
75°	6.2	14.0	13.2	11.7	10.9
77.5°	5.4	11.7	11.7	10.9	9.3
80°	4.7	10.1	10.9	9.3	7.8
82.5°	4.7	9.3	9.3	8.5	6.2
85°	3.9	7.8	8.5	7.8	5.4
87.5°	2.3	7.0	7.0	6.2	3.9
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	9.16	10.44	9.53	10.75	11.07	8.68	9.96	9.05	10.27	10.59
	3H	10.33	11.47	10.71	11.80	12.17	10.25	11.38	10.63	11.71	12.08
	4H	10.76	11.82	11.16	12.17	12.56	10.93	11.99	11.33	12.34	12.73
	6H	11.11	12.08	11.52	12.45	12.85	11.58	12.55	11.99	12.92	13.32
	8H	11.30	12.23	11.73	12.62	13.03	11.86	12.79	12.29	13.18	13.58
	12H	11.52	12.41	11.96	12.79	13.22	12.18	13.06	12.61	13.45	13.88
4H	2H	9.66	10.72	10.07	11.07	11.46	9.28	10.34	9.68	10.69	11.08
	3H	11.30	12.18	11.71	12.58	12.98	11.08	11.96	11.50	12.36	12.77
	4H	12.07	12.85	12.50	13.27	13.71	11.93	12.71	12.36	13.13	13.57
	6H	12.67	13.35	13.13	13.80	14.26	12.78	13.46	13.24	13.91	14.37
	8H	12.97	13.61	13.44	14.05	14.52	13.17	13.80	13.64	14.25	14.72
	12H	13.29	13.85	13.77	14.33	14.81	13.60	14.16	14.09	14.65	15.12
8H	4H	12.49	13.12	12.95	13.57	14.04	12.38	13.02	12.85	13.47	13.94
	6H	13.43	13.96	13.94	14.45	14.93	13.49	14.01	13.99	14.51	14.99
	8H	13.98	14.45	14.50	14.97	15.46	14.06	14.53	14.59	15.05	15.54
	12H	14.55	14.96	15.06	15.46	16.03	14.73	15.15	15.25	15.64	16.21
12H	4H	12.56	13.12	13.04	13.60	14.08	12.47	13.03	12.95	13.51	13.99
	6H	13.62	14.09	14.14	14.60	15.09	13.67	14.14	14.20	14.66	15.15
	8H	14.31	14.72	14.82	15.22	15.79	14.38	14.79	14.90	15.29	15.86