

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: P1060593

Luminaire Tested: S124RDRP-S795D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-S795D930-X4F0-XX-UDD-SVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

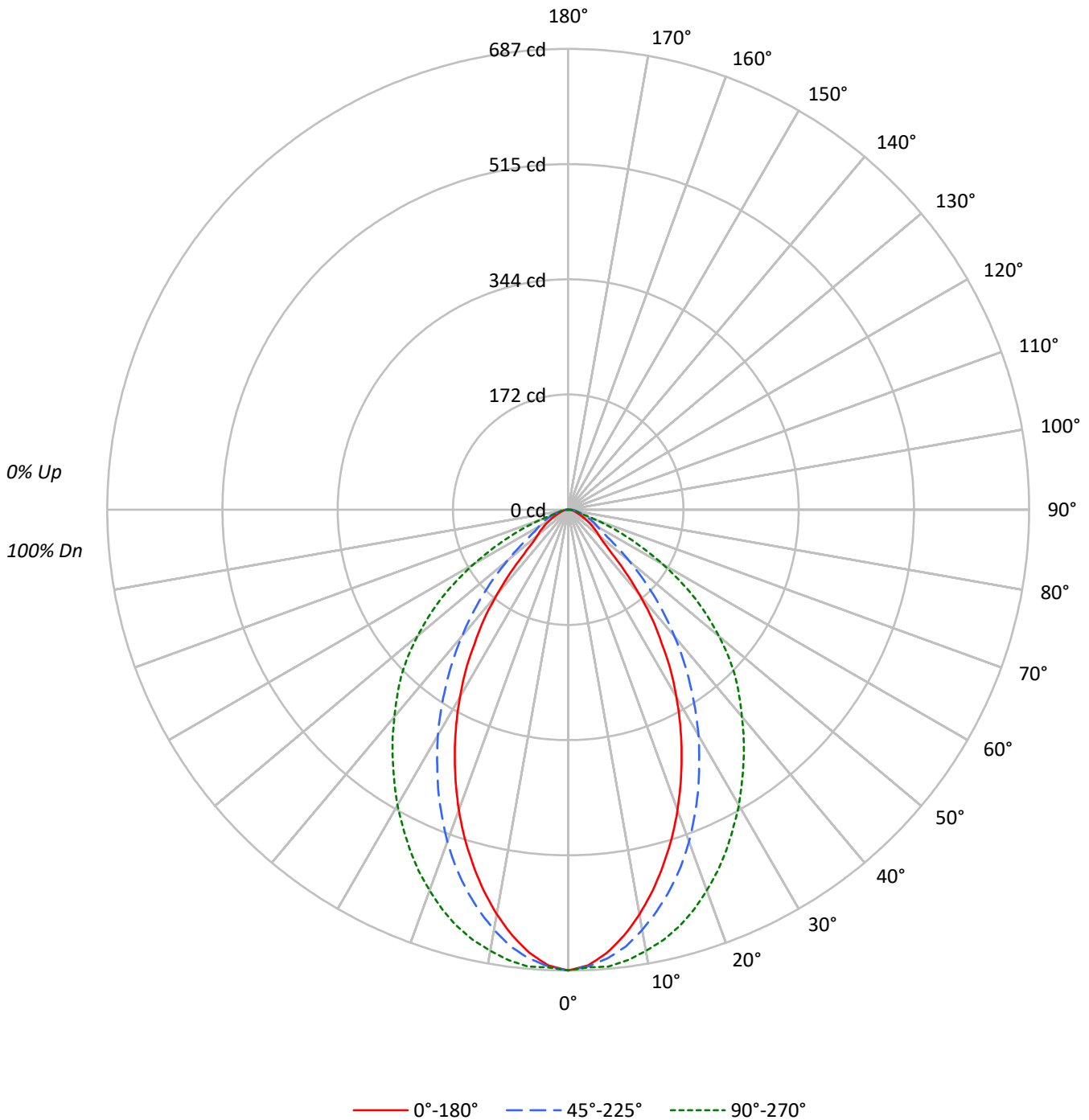
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 972.0 lumens  
Efficiency: N/A  
Efficacy: 37.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01  
Luminous Opening: Rectangular (W 0.31' 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	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					100			
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57					57			
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51					51			
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43					43			
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	5914	5914	5914
5°	5731	5804	5910
10°	5354	5562	5837
15°	4884	5226	5726
20°	4367	4824	5534
25°	3799	4360	5307
30°	3205	3861	5058
35°	2549	3323	4791
40°	1855	2769	4528
45°	1122	2187	4289
50°	802	1583	3927
55°	680	1072	3468
60°	555	871	2802
65°	438	782	2017
70°	368	657	1062
75°	333	612	536
80°	342	610	531
85°	454	909	603

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4289 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.2	6.5
10°-20°	165.7	17.0
20°-30°	214.9	22.1
30°-40°	206.9	21.3
40°-50°	153.9	15.8
50°-60°	94.6	9.7
60°-70°	46.5	4.8
70°-80°	18.1	1.9
80°-90°	8.3	0.8
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°	443.8	45.7
0°-40°	650.6	66.9
0°-60°	899.1	92.5
0°-90°	972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	972.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	663	673	671	678	684	62
15°	548	566	586	622	642	153
25°	400	421	459	516	559	183
35°	242	266	316	395	456	152
45°	92	114	180	277	352	76
55°	45	47	71	163	231	41
65°	22	23	38	61	99	22
75°	10	18	18	17	16	11
85°	5	8	9	9	6	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	686.8	686.8	686.8	686.8	686.8
2.5°	679.9	687.5	681.4	682.2	682.9
5°	663.0	672.9	671.4	677.6	683.7
7.5°	640.0	651.5	656.8	669.1	677.6
10°	612.3	625.4	636.1	656.1	667.6
12.5°	581.6	597.0	612.3	639.2	656.8
15°	547.9	565.5	586.2	621.5	642.3
17.5°	513.3	531.0	557.8	598.5	624.6
20°	476.5	495.7	526.4	571.7	603.9
22.5°	438.1	458.9	492.6	544.0	582.4
25°	399.8	421.3	458.9	516.4	558.6
27.5°	361.4	382.1	422.8	487.3	533.3
30°	322.3	343.8	388.3	455.8	508.7
32.5°	284.7	304.6	352.2	425.9	481.9
35°	242.5	265.5	316.1	395.2	455.8
37.5°	206.4	227.1	281.6	364.5	429.7
40°	165.0	188.0	246.3	334.6	402.8
42.5°	126.6	149.6	212.6	304.6	377.5
45°	92.1	114.3	179.6	277.0	352.2
47.5°	69.8	82.9	147.3	250.1	323.8
50°	59.9	63.7	118.2	221.0	293.1
52.5°	52.9	54.5	92.1	191.8	262.4
55°	45.3	46.8	71.4	162.7	231.0
57.5°	38.4	39.1	57.5	135.1	197.2
60°	32.2	33.0	50.6	108.2	162.7
62.5°	26.9	27.6	45.3	83.6	129.7
65°	21.5	23.0	38.4	61.4	99.0
67.5°	17.6	20.7	32.2	43.0	69.1
70°	14.6	20.0	26.1	29.9	42.2
72.5°	12.3	18.4	22.3	21.5	20.7
75°	10.0	17.6	18.4	16.9	16.1
77.5°	8.4	15.3	15.3	13.8	13.0
80°	6.9	12.3	12.3	12.3	10.7
82.5°	6.1	10.0	10.7	10.7	8.4
85°	4.6	8.4	9.2	9.2	6.1
87.5°	3.1	7.7	8.4	7.7	4.6
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	5.96	7.30	6.32	7.61	7.93	15.13	16.47	15.49	16.78	17.10
	3H	7.07	8.26	7.45	8.59	8.95	15.64	16.83	16.02	17.16	17.52
	4H	7.59	8.70	7.99	9.05	9.43	15.66	16.77	16.06	17.12	17.50
	6H	8.02	9.04	8.43	9.41	9.80	15.67	16.69	16.08	17.06	17.45
	8H	8.21	9.17	8.64	9.56	9.97	15.67	16.64	16.10	17.03	17.43
	12H	8.39	9.31	8.82	9.69	10.13	15.67	16.60	16.10	16.98	17.41
4H	2H	7.10	8.21	7.51	8.56	8.95	15.02	16.13	15.42	16.48	16.87
	3H	8.45	9.36	8.86	9.76	10.16	15.61	16.52	16.02	16.92	17.33
	4H	9.18	9.99	9.61	10.41	10.85	15.67	16.48	16.10	16.90	17.34
	6H	9.79	10.49	10.25	10.93	11.40	15.74	16.45	16.21	16.89	17.36
	8H	10.03	10.68	10.50	11.13	11.60	15.77	16.43	16.24	16.88	17.35
	12H	10.26	10.84	10.75	11.33	11.80	15.81	16.40	16.30	16.88	17.35
8H	4H	9.64	10.30	10.11	10.75	11.22	15.63	16.28	16.10	16.73	17.20
	6H	10.49	11.03	11.00	11.53	12.01	15.75	16.29	16.26	16.79	17.27
	8H	10.90	11.38	11.42	11.90	12.39	15.84	16.32	16.36	16.83	17.33
	12H	11.32	11.75	11.84	12.24	12.81	15.96	16.38	16.47	16.88	17.45
12H	4H	9.70	10.28	10.18	10.76	11.24	15.60	16.18	16.09	16.66	17.14
	6H	10.63	11.11	11.15	11.62	12.12	15.74	16.22	16.26	16.73	17.23
	8H	11.15	11.58	11.66	12.07	12.64	15.87	16.30	16.38	16.79	17.36