

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: P1060340

Luminaire Tested: S124RDRP-S1195D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-S1195D927-X4F0-XX-UDD-SVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

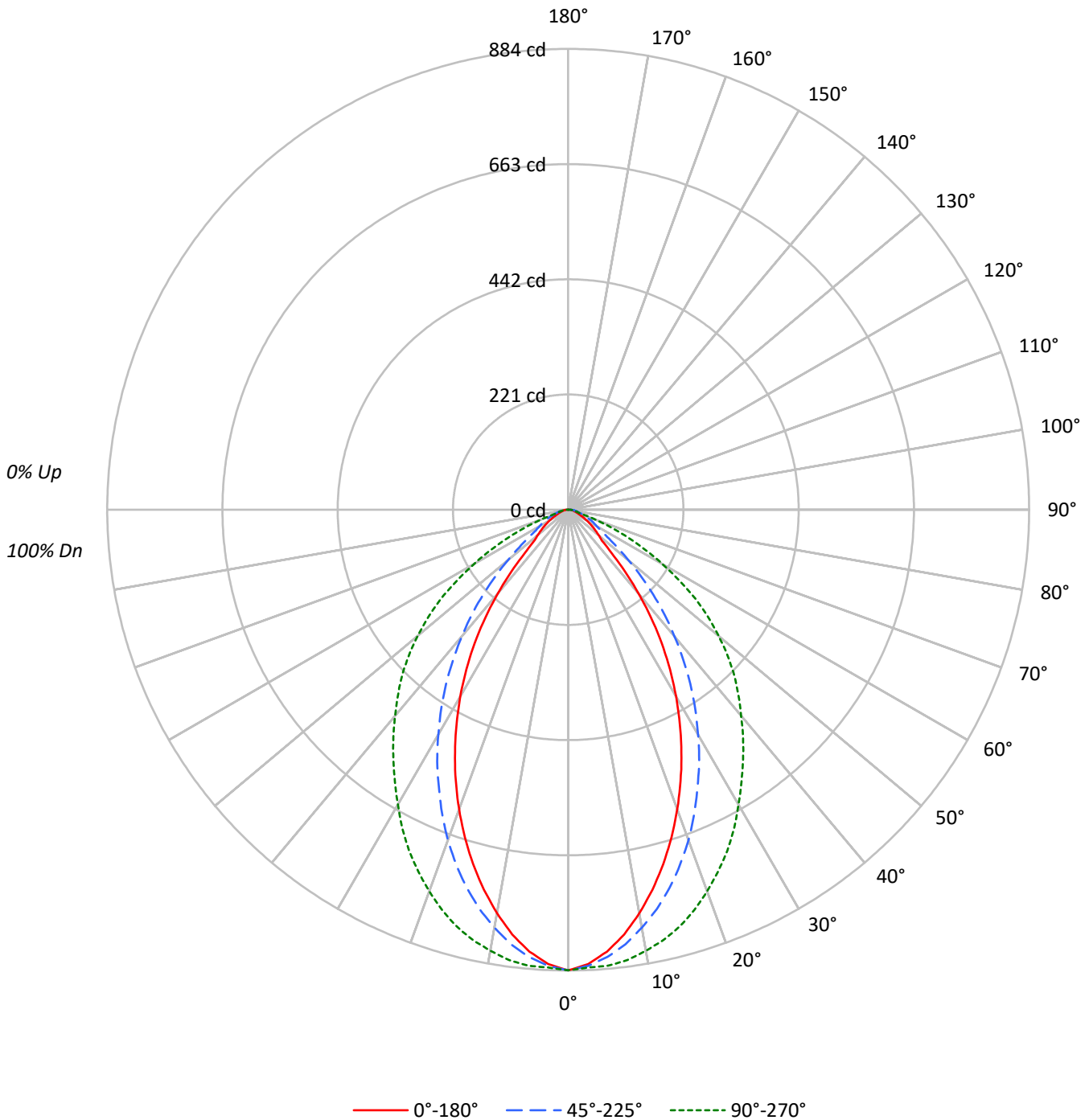
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1242.5 lumens  
Efficiency: N/A  
Efficacy: 29.7 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): 41.8  
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	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	7609	7609	7609
5°	7356	7444	7589
10°	6871	7117	7510
15°	6274	6695	7376
20°	5605	6181	7139
25°	4882	5575	6858
30°	4114	4952	6495
35°	3285	4290	6145
40°	2363	3563	5800
45°	1424	2807	5490
50°	1023	2034	5045
55°	860	1368	4472
60°	698	1085	3601
65°	550	984	2588
70°	481	821	1387
75°	449	749	672
80°	446	779	615
85°	662	1107	781

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5490 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	6.5
10°-20°	212.5	17.1
20°-30°	275.8	22.2
30°-40°	265.1	21.3
40°-50°	196.7	15.8
50°-60°	120.5	9.7
60°-70°	58.5	4.7
70°-80°	22.3	1.8
80°-90°	10.0	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°	569.4	45.8
0°-40°	834.5	67.2
0°-60°	1151.7	92.7
0°-90°	1242.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	851	863	861	869	878	79
15°	704	724	751	796	827	196
25°	514	540	587	662	722	235
35°	312	341	408	505	585	194
45°	117	146	230	352	451	97
55°	57	60	91	206	298	51
65°	27	29	48	76	127	28
75°	14	21	22	20	20	14
85°	7	11	11	10	8	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	883.6	883.6	883.6	883.6	883.6
2.5°	872.4	882.5	875.8	878.0	879.1
5°	851.0	863.4	861.2	869.0	878.0
7.5°	821.8	836.4	840.9	856.7	871.3
10°	785.8	803.8	813.9	839.8	858.9
12.5°	746.5	765.6	784.7	819.6	845.4
15°	703.8	724.0	751.0	796.0	827.4
17.5°	658.8	681.3	713.9	767.8	804.9
20°	611.6	635.2	674.5	734.1	779.1
22.5°	563.2	588.0	631.8	698.1	751.0
25°	513.8	539.6	586.8	662.2	721.8
27.5°	463.2	490.2	544.1	623.9	689.2
30°	413.7	439.6	498.0	584.6	653.2
32.5°	363.1	390.1	453.1	544.1	618.3
35°	312.5	340.6	408.1	504.8	584.6
37.5°	260.8	291.2	362.0	466.6	550.9
40°	210.2	239.5	317.0	427.2	516.0
42.5°	160.8	192.2	274.3	387.9	483.4
45°	116.9	146.1	230.5	351.9	450.8
47.5°	87.7	105.7	190.0	318.2	414.8
50°	76.4	79.8	151.8	281.1	376.6
52.5°	66.3	68.6	118.0	240.6	338.4
55°	57.3	59.6	91.1	205.7	297.9
57.5°	48.3	50.6	73.1	172.0	251.8
60°	40.5	42.7	63.0	137.2	209.1
62.5°	33.7	34.9	56.2	104.6	167.5
65°	27.0	29.2	48.3	76.4	127.0
67.5°	22.5	24.7	39.3	52.8	88.8
70°	19.1	24.7	32.6	37.1	55.1
72.5°	15.7	22.5	27.0	25.9	25.9
75°	13.5	21.4	22.5	20.2	20.2
77.5°	11.2	19.1	18.0	16.9	15.7
80°	9.0	15.7	15.7	13.5	12.4
82.5°	7.9	12.4	12.4	12.4	10.1
85°	6.7	11.2	11.2	10.1	7.9
87.5°	4.5	9.0	10.1	9.0	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	6.86	8.20	7.23	8.51	8.83	15.96	17.30	16.33	17.61	17.93
	3H	7.91	9.09	8.29	9.42	9.79	16.46	17.65	16.84	17.98	18.35
	4H	8.42	9.53	8.83	9.88	10.26	16.48	17.59	16.88	17.94	18.32
	6H	8.87	9.89	9.29	10.26	10.65	16.48	17.49	16.89	17.86	18.26
	8H	9.06	10.03	9.49	10.42	10.82	16.47	17.44	16.90	17.83	18.23
	12H	9.28	10.20	9.71	10.58	11.01	16.47	17.39	16.91	17.78	18.21
4H	2H	7.96	9.06	8.36	9.41	9.80	15.85	16.96	16.25	17.31	17.69
	3H	9.23	10.13	9.64	10.54	10.94	16.43	17.34	16.84	17.74	18.14
	4H	9.93	10.74	10.37	11.16	11.61	16.48	17.29	16.91	17.71	18.15
	6H	10.56	11.26	11.03	11.71	12.17	16.53	17.23	16.99	17.67	18.14
	8H	10.81	11.46	11.28	11.91	12.38	16.55	17.20	17.02	17.65	18.12
	12H	11.08	11.66	11.57	12.14	12.62	16.58	17.16	17.07	17.64	18.11
8H	4H	10.36	11.01	10.83	11.46	11.93	16.43	17.08	16.89	17.53	18.00
	6H	11.24	11.77	11.74	12.27	12.75	16.52	17.06	17.02	17.55	18.03
	8H	11.64	12.13	12.16	12.64	13.13	16.58	17.06	17.10	17.58	18.07
	12H	12.12	12.55	12.63	13.04	13.61	16.68	17.11	17.19	17.60	18.17
12H	4H	10.40	10.98	10.89	11.46	11.94	16.40	16.98	16.88	17.46	17.93
	6H	11.35	11.83	11.87	12.34	12.84	16.50	16.98	17.02	17.49	17.99
	8H	11.87	12.29	12.38	12.79	13.36	16.60	17.03	17.12	17.52	18.10