

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: P1060601

Luminaire Tested: S124RDRP-S795D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060601
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-S795D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

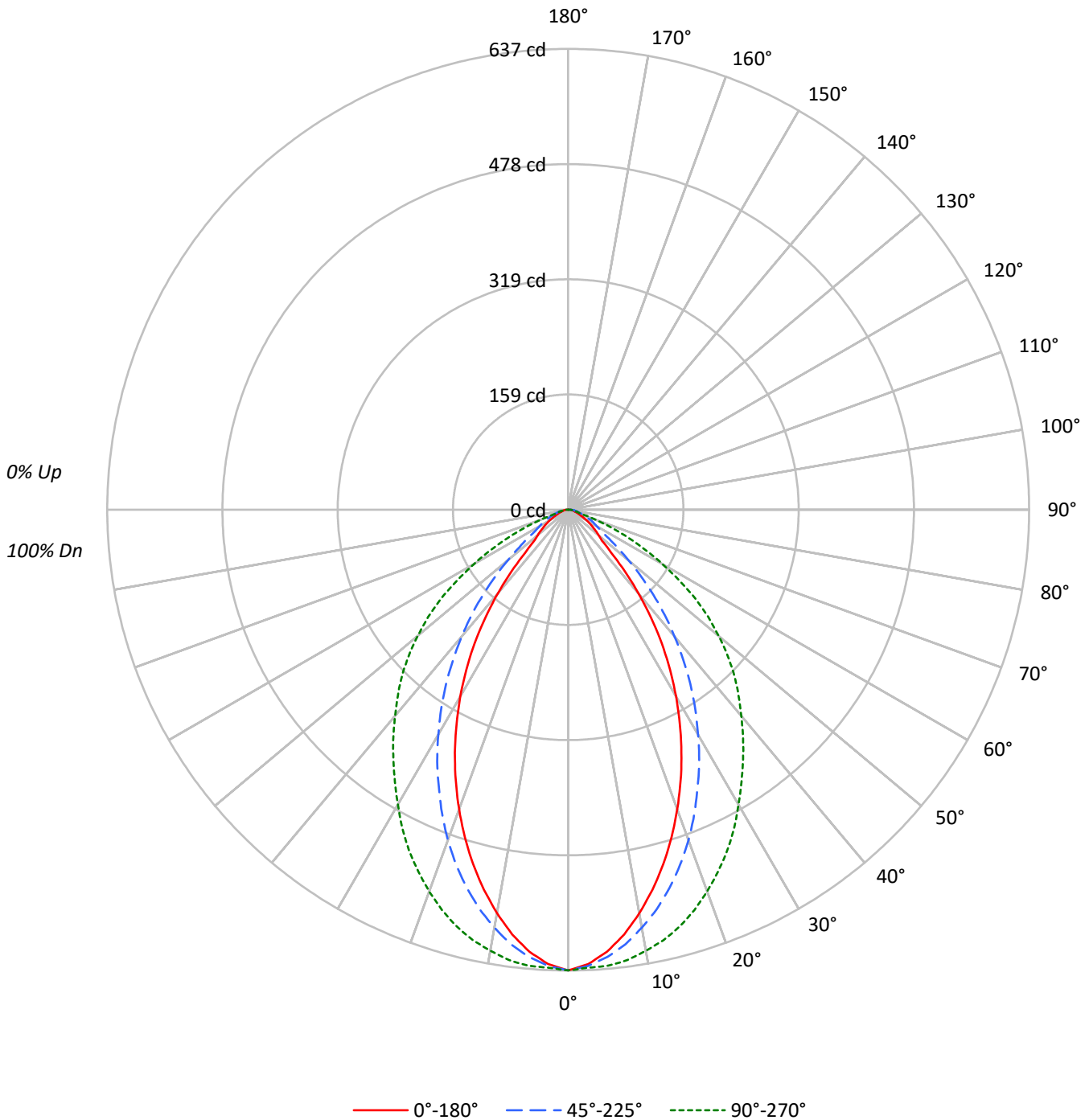
Lumens per Lamp: N/A
Luminaire Lumens: 895.4 lumens
Efficiency: N/A
Efficacy: 34.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (A_{in}): 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°	5484	5484	5484
5°	5301	5364	5470
10°	4952	5129	5413
15°	4522	4825	5316
20°	4038	4455	5145
25°	3518	4018	4942
30°	2964	3569	4680
35°	2367	3092	4429
40°	1703	2569	4181
45°	1027	2023	3957
50°	738	1466	3636
55°	620	985	3223
60°	503	782	2595
65°	395	709	1866
70°	347	592	1000
75°	323	539	486
80°	322	560	441
85°	484	800	563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3957 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	6.5
10°-20°	153.2	17.1
20°-30°	198.7	22.2
30°-40°	191.0	21.3
40°-50°	141.7	15.8
50°-60°	86.8	9.7
60°-70°	42.2	4.7
70°-80°	16.1	1.8
80°-90°	7.2	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°	410.4	45.8
0°-40°	601.4	67.2
0°-60°	830.0	92.7
0°-90°	895.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	613	622	621	626	633	57
15°	507	522	541	574	596	142
25°	370	389	423	477	520	169
35°	225	246	294	364	421	139
45°	84	105	166	254	325	70
55°	41	43	66	148	215	37
65°	19	21	35	55	92	20
75°	10	15	16	15	15	10
85°	5	8	8	7	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	636.8	636.8	636.8	636.8	636.8
2.5°	628.7	636.0	631.1	632.8	633.6
5°	613.3	622.2	620.6	626.3	632.8
7.5°	592.2	602.8	606.0	617.4	627.9
10°	566.3	579.3	586.6	605.2	619.0
12.5°	538.0	551.7	565.5	590.6	609.3
15°	507.2	521.8	541.2	573.6	596.3
17.5°	474.8	491.0	514.5	553.4	580.1
20°	440.7	457.8	486.1	529.1	561.5
22.5°	405.9	423.7	455.3	503.1	541.2
25°	370.3	388.9	422.9	477.2	520.1
27.5°	333.8	353.2	392.1	449.7	496.6
30°	298.1	316.8	358.9	421.3	470.7
32.5°	261.7	281.1	326.5	392.1	445.6
35°	225.2	245.5	294.1	363.8	421.3
37.5°	188.0	209.8	260.9	336.2	397.0
40°	151.5	172.6	228.5	307.9	371.9
42.5°	115.9	138.5	197.7	279.5	348.4
45°	84.3	105.3	166.1	253.6	324.9
47.5°	63.2	76.2	136.9	229.3	299.0
50°	55.1	57.5	109.4	202.5	271.4
52.5°	47.8	49.4	85.1	173.4	243.9
55°	41.3	42.9	65.6	148.3	214.7
57.5°	34.8	36.5	52.7	124.0	181.5
60°	29.2	30.8	45.4	98.8	150.7
62.5°	24.3	25.1	40.5	75.3	120.7
65°	19.4	21.1	34.8	55.1	91.6
67.5°	16.2	17.8	28.4	38.1	64.0
70°	13.8	17.8	23.5	26.7	39.7
72.5°	11.3	16.2	19.4	18.6	18.6
75°	9.7	15.4	16.2	14.6	14.6
77.5°	8.1	13.8	13.0	12.2	11.3
80°	6.5	11.3	11.3	9.7	8.9
82.5°	5.7	8.9	8.9	8.9	7.3
85°	4.9	8.1	8.1	7.3	5.7
87.5°	3.2	6.5	7.3	6.5	4.1
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	5.73	7.07	6.10	7.38	7.70	14.83	16.17	15.19	16.48	16.79
	3H	6.77	7.96	7.15	8.29	8.65	15.33	16.52	15.71	16.85	17.21
	4H	7.29	8.39	7.69	8.74	9.13	15.34	16.45	15.74	16.80	17.18
	6H	7.74	8.75	8.15	9.12	9.52	15.34	16.36	15.75	16.73	17.12
	8H	7.93	8.89	8.36	9.28	9.69	15.34	16.30	15.77	16.69	17.10
	12H	8.14	9.07	8.58	9.45	9.88	15.34	16.26	15.77	16.64	17.07
4H	2H	6.82	7.93	7.22	8.28	8.66	14.72	15.82	15.12	16.17	16.56
	3H	8.09	9.00	8.50	9.40	9.80	15.29	16.20	15.71	16.60	17.01
	4H	8.79	9.60	9.23	10.02	10.47	15.34	16.15	15.77	16.57	17.01
	6H	9.43	10.13	9.89	10.57	11.04	15.39	16.09	15.85	16.54	17.00
	8H	9.67	10.33	10.14	10.77	11.24	15.41	16.06	15.88	16.51	16.98
	12H	9.95	10.53	10.44	11.01	11.49	15.44	16.02	15.93	16.50	16.98
8H	4H	9.22	9.88	9.69	10.32	10.79	15.29	15.94	15.76	16.39	16.86
	6H	10.10	10.63	10.60	11.13	11.61	15.38	15.92	15.88	16.41	16.89
	8H	10.50	10.99	11.03	11.50	11.99	15.44	15.92	15.96	16.44	16.93
	12H	10.99	11.41	11.50	11.91	12.48	15.54	15.97	16.06	16.46	17.03
12H	4H	9.27	9.84	9.75	10.33	10.80	15.26	15.84	15.75	16.32	16.80
	6H	10.21	10.69	10.73	11.21	11.70	15.36	15.84	15.88	16.36	16.85
	8H	10.73	11.15	11.24	11.65	12.22	15.47	15.89	15.98	16.39	16.96