

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: P1060619

Luminaire Tested: S124RDRP-S795D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060619
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-S795D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

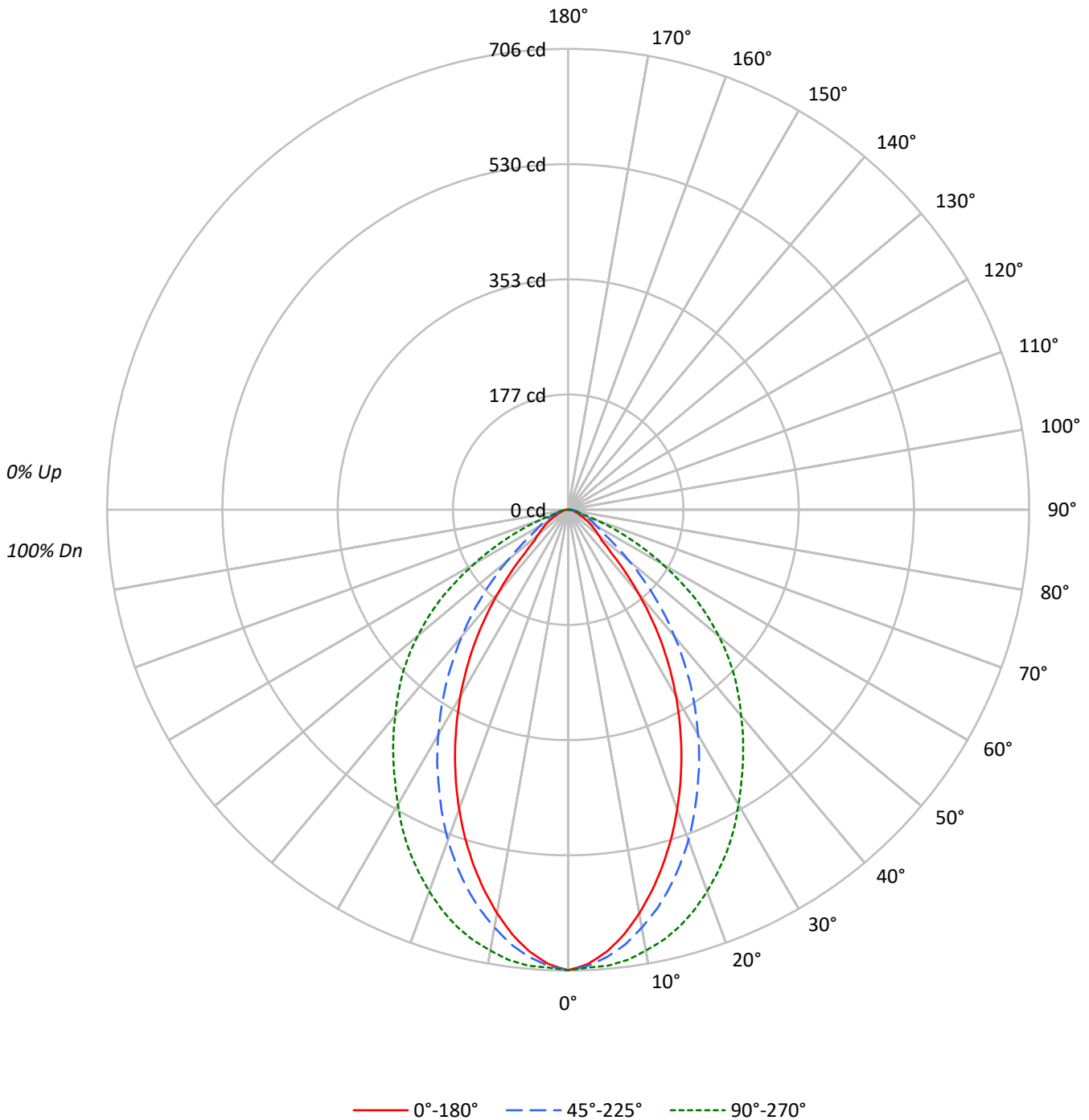
Lumens per Lamp: N/A
Luminaire Lumens: 992.2 lumens
Efficiency: N/A
Efficacy: 38.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	46	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°	6076	6076	6076
5°	5874	5944	6060
10°	5487	5683	5997
15°	5010	5346	5890
20°	4475	4936	5701
25°	3897	4452	5476
30°	3285	3954	5186
35°	2624	3426	4907
40°	1887	2846	4631
45°	1137	2241	4384
50°	817	1624	4028
55°	688	1091	3572
60°	556	866	2876
65°	438	787	2066
70°	385	655	1108
75°	359	599	539
80°	357	625	491
85°	534	889	622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	6.5
10°-20°	169.7	17.1
20°-30°	220.2	22.2
30°-40°	211.7	21.3
40°-50°	157.0	15.8
50°-60°	96.2	9.7
60°-70°	46.7	4.7
70°-80°	17.8	1.8
80°-90°	8.0	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°	454.7	45.8
0°-40°	666.4	67.2
0°-60°	919.6	92.7
0°-90°	992.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	992.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	680	689	688	694	701	63
15°	562	578	600	636	661	157
25°	410	431	469	529	576	188
35°	250	272	326	403	467	155
45°	93	117	184	281	360	77
55°	46	48	73	164	238	41
65°	22	23	39	61	101	22
75°	11	17	18	16	16	12
85°	5	9	9	8	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.6	705.6	705.6	705.6	705.6
2.5°	696.6	704.7	699.3	701.1	702.0
5°	679.6	689.4	687.6	693.9	701.1
7.5°	656.2	667.9	671.5	684.0	695.7
10°	627.5	641.9	649.9	670.6	685.8
12.5°	596.1	611.3	626.6	654.4	675.1
15°	562.0	578.1	599.7	635.6	660.7
17.5°	526.1	544.0	570.0	613.1	642.8
20°	488.3	507.2	538.6	586.2	622.1
22.5°	449.7	469.5	504.5	557.5	599.7
25°	410.2	430.9	468.6	528.7	576.3
27.5°	369.9	391.4	434.5	498.2	550.3
30°	330.4	351.0	397.7	466.8	521.6
32.5°	290.0	311.5	361.8	434.5	493.7
35°	249.6	272.0	325.9	403.1	466.8
37.5°	208.3	232.5	289.1	372.5	439.9
40°	167.9	191.2	253.2	341.1	412.0
42.5°	128.4	153.5	219.0	309.7	386.0
45°	93.4	116.7	184.0	281.0	360.0
47.5°	70.0	84.4	151.7	254.0	331.3
50°	61.0	63.7	121.2	224.4	300.7
52.5°	53.0	54.8	94.3	192.1	270.2
55°	45.8	47.6	72.7	164.3	237.9
57.5°	38.6	40.4	58.4	137.3	201.1
60°	32.3	34.1	50.3	109.5	167.0
62.5°	26.9	27.8	44.9	83.5	133.8
65°	21.5	23.3	38.6	61.0	101.4
67.5°	18.0	19.7	31.4	42.2	70.9
70°	15.3	19.7	26.0	29.6	44.0
72.5°	12.6	18.0	21.5	20.6	20.6
75°	10.8	17.1	18.0	16.2	16.2
77.5°	9.0	15.3	14.4	13.5	12.6
80°	7.2	12.6	12.6	10.8	9.9
82.5°	6.3	9.9	9.9	9.9	8.1
85°	5.4	9.0	9.0	8.1	6.3
87.5°	3.6	7.2	8.1	7.2	4.5
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	6.08	7.42	6.45	7.73	8.05	15.18	16.52	15.54	16.83	17.15
	3H	7.13	8.31	7.51	8.64	9.01	15.68	16.87	16.06	17.20	17.56
	4H	7.64	8.75	8.05	9.10	9.48	15.70	16.80	16.10	17.15	17.54
	6H	8.10	9.11	8.51	9.48	9.88	15.69	16.71	16.11	17.08	17.48
	8H	8.29	9.25	8.72	9.64	10.05	15.69	16.65	16.12	17.05	17.45
	12H	8.50	9.42	8.93	9.81	10.24	15.69	16.61	16.12	17.00	17.43
4H	2H	7.18	8.28	7.58	8.63	9.02	15.07	16.18	15.47	16.53	16.91
	3H	8.45	9.35	8.86	9.76	10.16	15.65	16.55	16.06	16.96	17.36
	4H	9.15	9.96	9.59	10.38	10.83	15.69	16.50	16.13	16.92	17.37
	6H	9.79	10.49	10.25	10.93	11.40	15.75	16.45	16.21	16.89	17.36
	8H	10.03	10.69	10.50	11.13	11.61	15.76	16.42	16.23	16.87	17.34
	12H	10.31	10.89	10.80	11.37	11.85	15.80	16.38	16.28	16.86	17.33
8H	4H	9.58	10.24	10.05	10.68	11.15	15.64	16.30	16.11	16.74	17.21
	6H	10.46	11.00	10.97	11.49	11.98	15.74	16.27	16.24	16.77	17.25
	8H	10.87	11.35	11.39	11.87	12.36	15.80	16.28	16.32	16.80	17.29
	12H	11.35	11.78	11.86	12.27	12.84	15.90	16.33	16.41	16.82	17.39
12H	4H	9.63	10.20	10.11	10.69	11.16	15.62	16.19	16.10	16.68	17.15
	6H	10.58	11.06	11.10	11.57	12.06	15.72	16.20	16.24	16.71	17.21
	8H	11.09	11.52	11.61	12.01	12.59	15.82	16.25	16.34	16.74	17.31