

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: P1060610

Luminaire Tested: S124RDRP-S795D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060610
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-S795D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

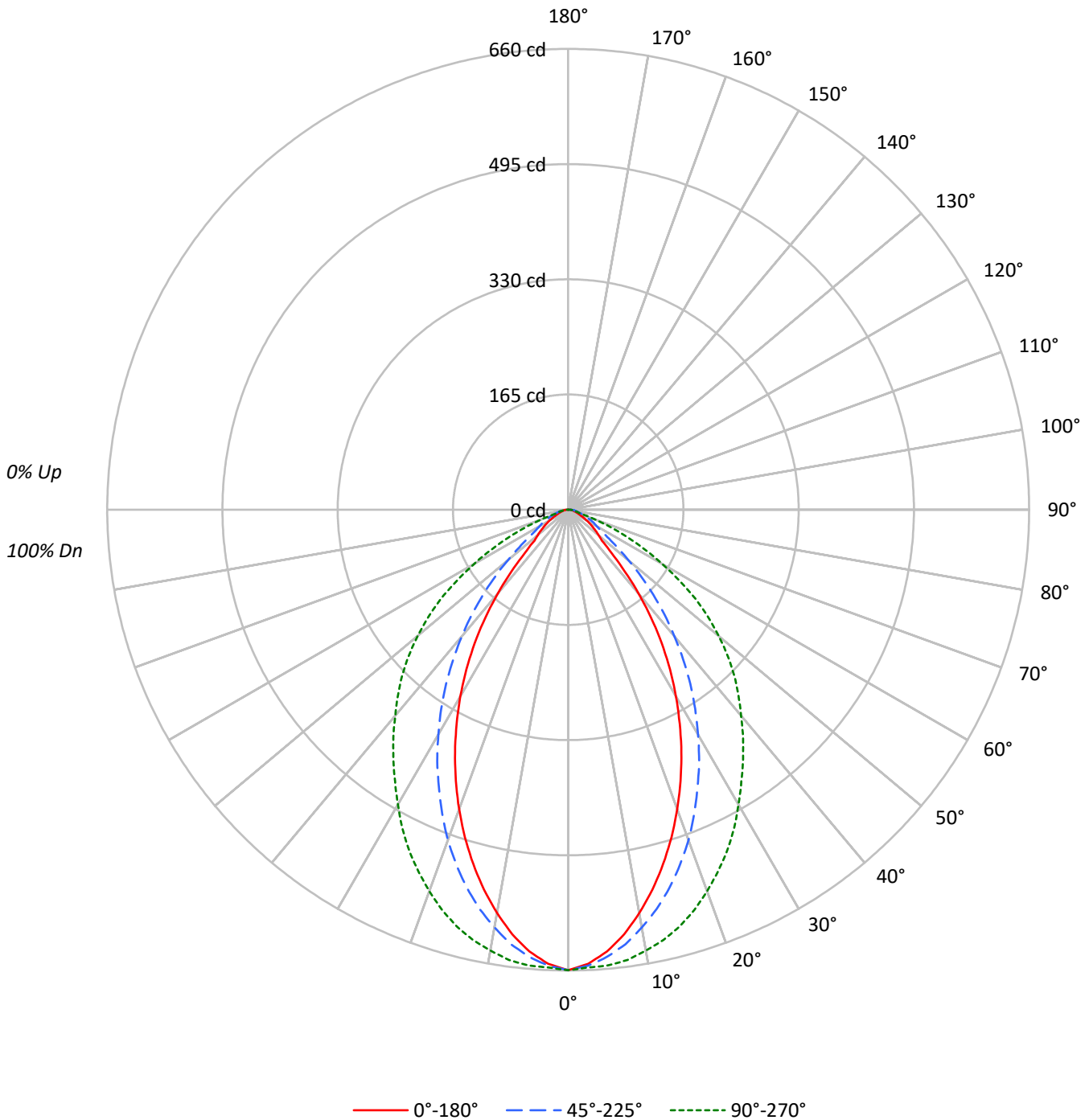
Lumens per Lamp: N/A
Luminaire Lumens: 927.4 lumens
Efficiency: N/A
Efficacy: 35.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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°	5679	5679	5679
5°	5491	5556	5664
10°	5128	5312	5606
15°	4683	4997	5506
20°	4183	4614	5329
25°	3644	4162	5118
30°	3070	3696	4847
35°	2453	3202	4586
40°	1764	2660	4329
45°	1063	2095	4098
50°	765	1518	3766
55°	643	1021	3339
60°	520	809	2688
65°	410	736	1932
70°	360	612	1035
75°	336	559	502
80°	332	580	456
85°	494	830	583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4098 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	6.5
10°-20°	158.6	17.1
20°-30°	205.8	22.2
30°-40°	197.9	21.3
40°-50°	146.8	15.8
50°-60°	89.9	9.7
60°-70°	43.7	4.7
70°-80°	16.6	1.8
80°-90°	7.5	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°	425.0	45.8
0°-40°	622.9	67.2
0°-60°	859.6	92.7
0°-90°	927.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	927.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	635	644	643	649	655	59
15°	525	540	560	594	618	147
25°	384	403	438	494	539	175
35°	233	254	305	377	436	144
45°	87	109	172	263	336	72
55°	43	44	68	154	222	38
65°	20	22	36	57	95	21
75°	10	16	17	15	15	11
85°	5	8	8	8	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	659.5	659.5	659.5	659.5	659.5
2.5°	651.1	658.7	653.6	655.3	656.2
5°	635.2	644.4	642.7	648.6	655.3
7.5°	613.4	624.3	627.6	639.4	650.3
10°	586.5	599.9	607.5	626.8	641.1
12.5°	557.2	571.4	585.7	611.7	631.0
15°	525.3	540.4	560.5	594.1	617.6
17.5°	491.7	508.5	532.8	573.1	600.8
20°	456.5	474.1	503.5	547.9	581.5
22.5°	420.4	438.8	471.6	521.1	560.5
25°	383.5	402.8	438.0	494.2	538.7
27.5°	345.7	365.8	406.1	465.7	514.4
30°	308.8	328.1	371.7	436.3	487.5
32.5°	271.0	291.2	338.2	406.1	461.5
35°	233.3	254.2	304.6	376.8	436.3
37.5°	194.7	217.3	270.2	348.2	411.2
40°	156.9	178.7	236.6	318.9	385.1
42.5°	120.0	143.5	204.7	289.5	360.8
45°	87.3	109.1	172.0	262.6	336.5
47.5°	65.4	78.9	141.8	237.5	309.6
50°	57.1	59.6	113.3	209.8	281.1
52.5°	49.5	51.2	88.1	179.6	252.6
55°	42.8	44.5	68.0	153.6	222.4
57.5°	36.1	37.8	54.5	128.4	188.0
60°	30.2	31.9	47.0	102.4	156.1
62.5°	25.2	26.0	42.0	78.0	125.0
65°	20.1	21.8	36.1	57.1	94.8
67.5°	16.8	18.5	29.4	39.4	66.3
70°	14.3	18.5	24.3	27.7	41.1
72.5°	11.7	16.8	20.1	19.3	19.3
75°	10.1	15.9	16.8	15.1	15.1
77.5°	8.4	14.3	13.4	12.6	11.7
80°	6.7	11.7	11.7	10.1	9.2
82.5°	5.9	9.2	9.2	9.2	7.6
85°	5.0	8.4	8.4	7.6	5.9
87.5°	3.4	6.7	7.6	6.7	4.2
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	5.85	7.19	6.22	7.51	7.82	14.95	16.29	15.31	16.60	16.91
	3H	6.90	8.09	7.28	8.42	8.78	15.45	16.64	15.83	16.97	17.33
	4H	7.41	8.52	7.82	8.87	9.25	15.46	16.57	15.87	16.92	17.30
	6H	7.86	8.88	8.28	9.25	9.64	15.46	16.48	15.88	16.85	17.24
	8H	8.05	9.02	8.48	9.41	9.81	15.46	16.42	15.89	16.81	17.22
	12H	8.27	9.19	8.70	9.57	10.00	15.46	16.38	15.89	16.76	17.19
4H	2H	6.95	8.05	7.35	8.40	8.79	14.84	15.94	15.24	16.29	16.68
	3H	8.22	9.12	8.63	9.53	9.93	15.41	16.32	15.83	16.72	17.13
	4H	8.92	9.73	9.36	10.15	10.59	15.46	16.27	15.90	16.69	17.13
	6H	9.55	10.25	10.01	10.70	11.16	15.51	16.21	15.98	16.66	17.13
	8H	9.80	10.45	10.26	10.90	11.37	15.53	16.18	16.00	16.63	17.10
	12H	10.07	10.65	10.56	11.13	11.60	15.56	16.14	16.05	16.63	17.10
8H	4H	9.35	10.00	9.82	10.45	10.92	15.41	16.06	15.88	16.51	16.98
	6H	10.22	10.76	10.72	11.25	11.73	15.50	16.04	16.01	16.54	17.02
	8H	10.63	11.11	11.15	11.62	12.11	15.56	16.05	16.09	16.56	17.05
	12H	11.10	11.53	11.62	12.02	12.59	15.67	16.09	16.18	16.59	17.16
12H	4H	9.39	9.97	9.88	10.45	10.92	15.38	15.96	15.87	16.44	16.92
	6H	10.33	10.81	10.85	11.33	11.82	15.48	15.96	16.00	16.48	16.97
	8H	10.85	11.27	11.36	11.77	12.34	15.59	16.01	16.10	16.51	17.08