

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: P1060586

Luminaire Tested: S124RDRP-S795D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D927-X4F0-XX-UDD-WVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

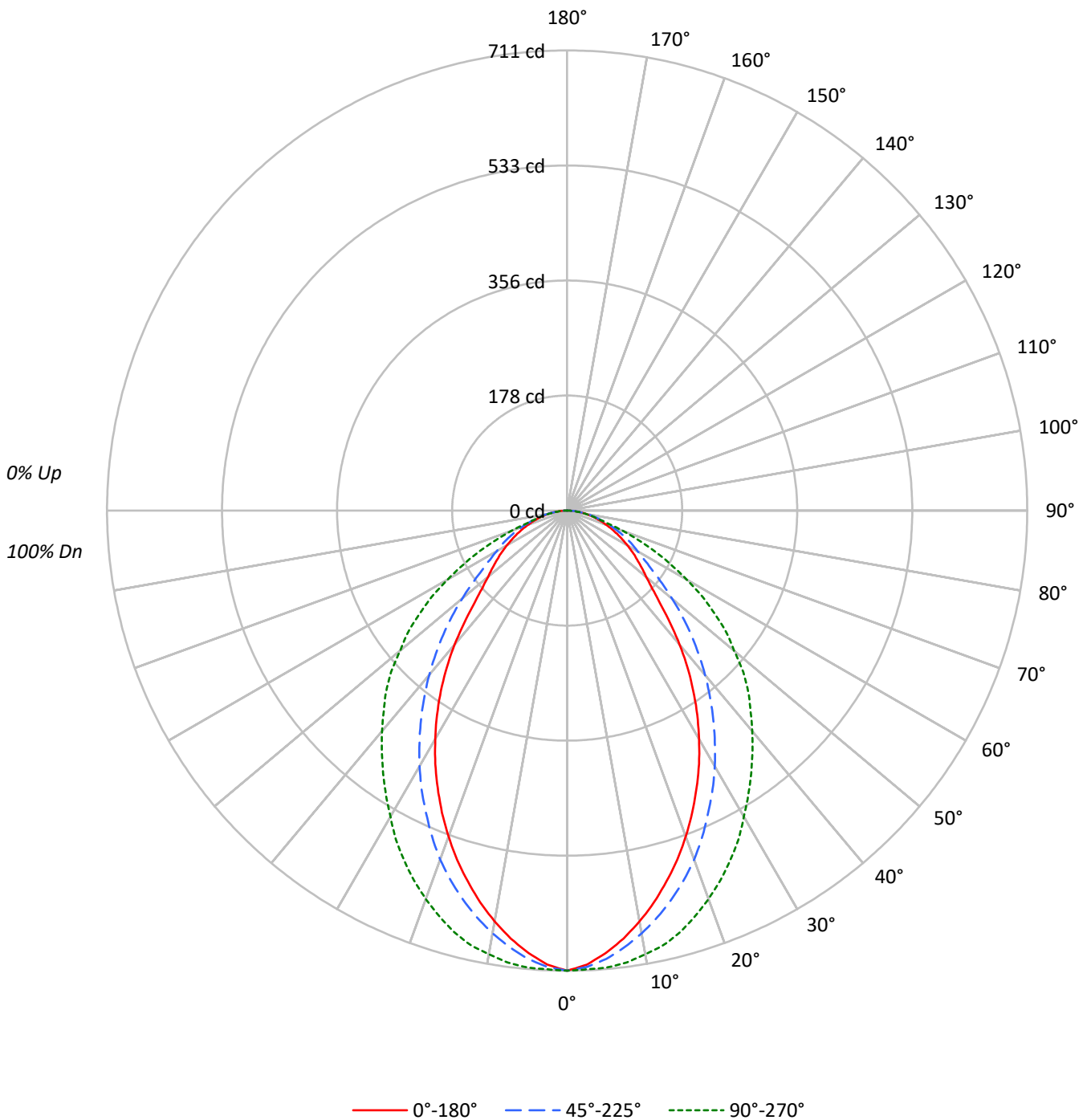
Lumens per Lamp: N/A
Luminaire Lumens: 1294.3 lumens
Efficiency: N/A
Efficacy: 50.2 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6122	6122	6122
5°	5932	6010	6126
10°	5636	5799	6086
15°	5288	5547	6012
20°	4910	5258	5852
25°	4496	4900	5665
30°	4053	4535	5431
35°	3572	4137	5210
40°	3041	3728	5001
45°	2468	3294	4819
50°	2137	2835	4512
55°	1980	2405	4184
60°	1848	2168	3670
65°	1732	2036	3052
70°	1614	1876	2309
75°	1537	1737	1660
80°	1443	1587	1403
85°	1324	1472	1107

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4819 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	5.1
10°-20°	176.4	13.6
20°-30°	240.9	18.6
30°-40°	252.4	19.5
40°-50°	218.5	16.9
50°-60°	164.1	12.7
60°-70°	105.8	8.2
70°-80°	54.3	4.2
80°-90°	16.2	1.3
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°	483.0	37.3
0°-40°	735.3	56.8
0°-60°	1117.9	86.4
0°-90°	1294.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1294.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	686	697	695	700	709	64
15°	593	608	622	650	674	166
25°	473	491	516	556	596	217
35°	340	359	394	446	496	212
45°	203	224	270	337	396	160
55°	132	136	160	229	279	119
65°	85	86	100	121	150	84
75°	46	51	52	51	50	49
85°	13	16	15	14	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.9	710.9	710.9	710.9	710.9
2.5°	702.0	710.9	705.7	707.2	709.4
5°	686.3	696.8	695.3	700.5	708.7
7.5°	666.9	678.1	680.4	692.3	704.2
10°	644.6	657.3	663.2	681.1	696.0
12.5°	620.0	633.4	643.8	666.2	687.8
15°	593.2	608.1	622.2	650.5	674.4
17.5°	565.6	580.5	599.1	630.4	657.3
20°	535.8	552.2	573.8	606.6	638.6
22.5°	505.2	522.4	545.5	581.2	618.5
25°	473.2	491.1	515.7	555.9	596.2
27.5°	441.2	459.0	486.6	529.1	573.1
30°	407.6	426.2	456.1	502.3	546.2
32.5°	374.1	394.2	424.8	473.9	520.9
35°	339.8	359.2	393.5	445.6	495.6
37.5°	305.5	325.6	362.2	418.1	470.2
40°	270.5	291.4	331.6	390.5	444.9
42.5°	235.5	257.8	300.3	362.2	419.5
45°	202.7	223.6	270.5	336.8	395.7
47.5°	178.1	192.3	240.7	312.2	368.9
50°	159.5	166.9	211.6	285.4	336.8
52.5°	145.3	150.5	184.8	256.3	310.7
55°	131.9	136.4	160.2	228.8	278.7
57.5°	120.0	122.2	141.6	201.9	248.1
60°	107.3	109.5	125.9	172.9	213.1
62.5°	96.1	97.6	113.3	145.3	181.1
65°	85.0	86.4	99.9	120.7	149.8
67.5°	74.5	76.8	87.2	98.4	119.2
70°	64.1	68.6	74.5	79.7	91.7
72.5°	55.1	59.6	62.6	64.1	64.8
75°	46.2	51.4	52.2	51.4	49.9
77.5°	37.3	41.7	41.7	40.2	38.7
80°	29.1	32.8	32.0	30.6	28.3
82.5°	21.6	23.8	23.1	21.6	19.4
85°	13.4	15.6	14.9	14.2	11.2
87.5°	6.7	8.9	8.2	7.5	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	12.73	14.21	13.09	14.52	14.84	16.50	17.98	16.86	18.30	18.61
	3H	14.38	15.71	14.76	16.04	16.40	17.61	18.94	17.99	19.27	19.63
	4H	15.05	16.30	15.45	16.65	17.03	17.90	19.15	18.30	19.50	19.88
	6H	15.57	16.72	15.98	17.08	17.48	18.10	19.25	18.51	19.62	20.01
	8H	15.75	16.84	16.17	17.23	17.63	18.15	19.25	18.58	19.64	20.04
	12H	15.87	16.92	16.30	17.30	17.73	18.18	19.23	18.61	19.61	20.04
4H	2H	13.51	14.76	13.91	15.11	15.48	16.66	17.90	17.06	18.25	18.63
	3H	15.37	16.41	15.78	16.81	17.21	17.97	19.00	18.38	19.40	19.81
	4H	16.18	17.11	16.61	17.53	17.97	18.38	19.31	18.81	19.72	20.16
	6H	16.83	17.64	17.29	18.08	18.54	18.69	19.50	19.15	19.94	20.41
	8H	17.06	17.81	17.52	18.26	18.72	18.79	19.54	19.25	19.99	20.45
	12H	17.23	17.90	17.71	18.38	18.85	18.85	19.52	19.33	20.00	20.47
8H	4H	16.53	17.28	16.99	17.73	18.20	18.51	19.27	18.98	19.71	20.18
	6H	17.32	17.95	17.82	18.44	18.92	18.92	19.55	19.42	20.04	20.52
	8H	17.64	18.20	18.16	18.71	19.20	19.07	19.63	19.59	20.14	20.63
	12H	17.91	18.40	18.42	18.89	19.46	19.20	19.69	19.71	20.19	20.75
12H	4H	16.56	17.23	17.04	17.71	18.18	18.52	19.19	19.00	19.67	20.14
	6H	17.38	17.94	17.90	18.46	18.94	18.95	19.51	19.46	20.02	20.50
	8H	17.77	18.27	18.28	18.76	19.32	19.15	19.64	19.66	20.13	20.70