

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: P1061007

Luminaire Tested: S124RDRP-H795D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-H795D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

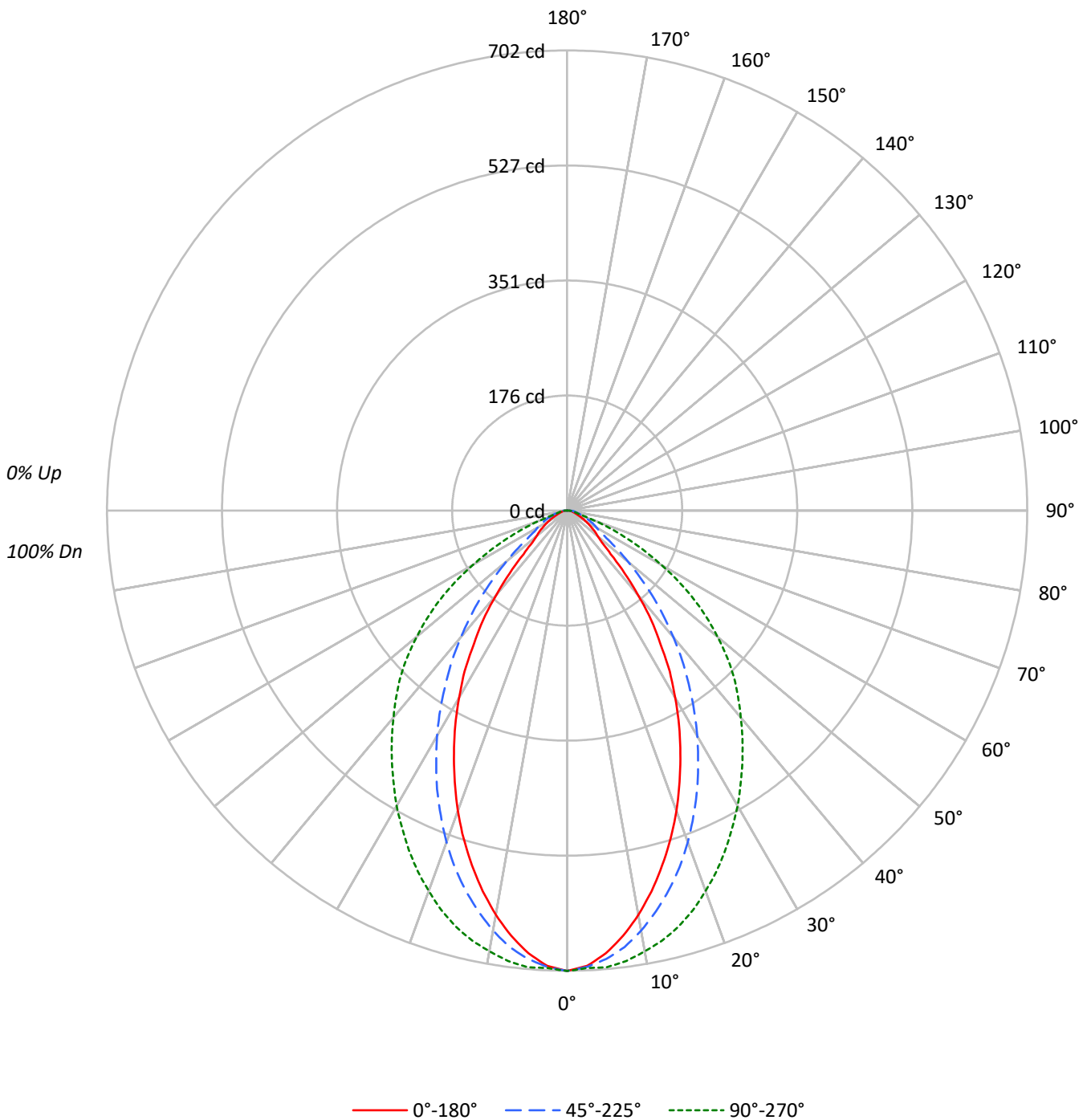
Lumens per Lamp: N/A
Luminaire Lumens: 994.0 lumens
Efficiency: N/A
Efficacy: 42.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
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	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					100			
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57					57			
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51					51			
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43					43			
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6048	6048	6048
5°	5861	5935	6044
10°	5475	5688	5970
15°	4995	5344	5855
20°	4466	4933	5660
25°	3884	4459	5428
30°	3277	3948	5173
35°	2607	3399	4900
40°	1896	2832	4631
45°	1147	2236	4387
50°	820	1618	4016
55°	695	1096	3546
60°	568	892	2866
65°	448	799	2062
70°	375	672	1088
75°	339	625	549
80°	352	625	545
85°	464	929	622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4387 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	6.5
10°-20°	169.4	17.0
20°-30°	219.7	22.1
30°-40°	211.5	21.3
40°-50°	157.4	15.8
50°-60°	96.8	9.7
60°-70°	47.5	4.8
70°-80°	18.5	1.9
80°-90°	8.4	0.9
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°	453.8	45.7
0°-40°	665.4	66.9
0°-60°	919.5	92.5
0°-90°	994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	678	688	687	693	699	63
15°	560	578	600	636	657	157
25°	409	431	469	528	571	187
35°	248	272	323	404	466	155
45°	94	117	184	283	360	78
55°	46	48	73	166	236	42
65°	22	24	39	63	101	23
75°	10	18	19	17	16	11
85°	5	9	9	9	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.3	702.3	702.3	702.3	702.3
2.5°	695.3	703.1	696.8	697.6	698.4
5°	678.0	688.2	686.6	692.9	699.2
7.5°	654.4	666.2	671.7	684.3	692.9
10°	626.2	639.5	650.5	670.9	682.7
12.5°	594.8	610.5	626.2	653.7	671.7
15°	560.3	578.3	599.5	635.6	656.8
17.5°	525.0	543.0	570.5	612.1	638.8
20°	487.3	506.9	538.3	584.6	617.6
22.5°	448.1	469.3	503.8	556.4	595.6
25°	408.8	430.8	469.3	528.1	571.3
27.5°	369.6	390.8	432.4	498.3	545.4
30°	329.6	351.5	397.1	466.1	520.3
32.5°	291.1	311.5	360.2	435.5	492.8
35°	248.0	271.5	323.3	404.1	466.1
37.5°	211.1	232.3	288.0	372.7	439.4
40°	168.7	192.3	251.9	342.1	412.0
42.5°	129.5	153.0	217.4	311.5	386.1
45°	94.2	116.9	183.6	283.3	360.2
47.5°	71.4	84.7	150.7	255.8	331.1
50°	61.2	65.1	120.8	226.0	299.8
52.5°	54.1	55.7	94.2	196.2	268.4
55°	46.3	47.9	73.0	166.4	236.2
57.5°	39.2	40.0	58.9	138.1	201.7
60°	33.0	33.7	51.8	110.6	166.4
62.5°	27.5	28.2	46.3	85.5	132.6
65°	22.0	23.5	39.2	62.8	101.2
67.5°	18.0	21.2	33.0	43.9	70.6
70°	14.9	20.4	26.7	30.6	43.2
72.5°	12.6	18.8	22.8	22.0	21.2
75°	10.2	18.0	18.8	17.3	16.5
77.5°	8.6	15.7	15.7	14.1	13.3
80°	7.1	12.6	12.6	12.6	11.0
82.5°	6.3	10.2	11.0	11.0	8.6
85°	4.7	8.6	9.4	9.4	6.3
87.5°	3.1	7.8	8.6	7.8	4.7
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	6.03	7.38	6.40	7.69	8.00	15.21	16.55	15.57	16.86	17.18
	3H	7.14	8.34	7.52	8.66	9.03	15.71	16.90	16.09	17.23	17.60
	4H	7.66	8.77	8.06	9.12	9.51	15.73	16.84	16.13	17.19	17.58
	6H	8.10	9.12	8.51	9.49	9.88	15.74	16.76	16.16	17.13	17.53
	8H	8.29	9.26	8.72	9.65	10.05	15.75	16.71	16.18	17.10	17.51
	12H	8.47	9.39	8.90	9.78	10.21	15.75	16.67	16.18	17.06	17.49
4H	2H	7.18	8.29	7.58	8.64	9.02	15.10	16.21	15.50	16.56	16.94
	3H	8.52	9.43	8.93	9.83	10.24	15.69	16.60	16.10	17.00	17.40
	4H	9.25	10.07	9.69	10.48	10.93	15.75	16.56	16.18	16.98	17.42
	6H	9.86	10.57	10.33	11.01	11.48	15.82	16.52	16.28	16.97	17.44
	8H	10.11	10.76	10.58	11.21	11.68	15.85	16.51	16.32	16.95	17.42
	12H	10.34	10.93	10.83	11.41	11.88	15.89	16.47	16.38	16.96	17.43
8H	4H	9.72	10.38	10.19	10.82	11.29	15.70	16.36	16.17	16.81	17.28
	6H	10.57	11.11	11.08	11.61	12.09	15.83	16.37	16.33	16.86	17.35
	8H	10.98	11.46	11.50	11.98	12.47	15.91	16.40	16.44	16.91	17.40
	12H	11.40	11.83	11.92	12.33	12.90	16.04	16.46	16.55	16.96	17.53
12H	4H	9.77	10.36	10.26	10.84	11.31	15.68	16.26	16.16	16.74	17.21
	6H	10.71	11.19	11.23	11.71	12.20	15.81	16.30	16.33	16.81	17.30
	8H	11.23	11.66	11.74	12.15	12.72	15.95	16.37	16.46	16.87	17.44