

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: P1060614

Luminaire Tested: S124RDRP-S795D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D940-X4F0-XX-UDD-WVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

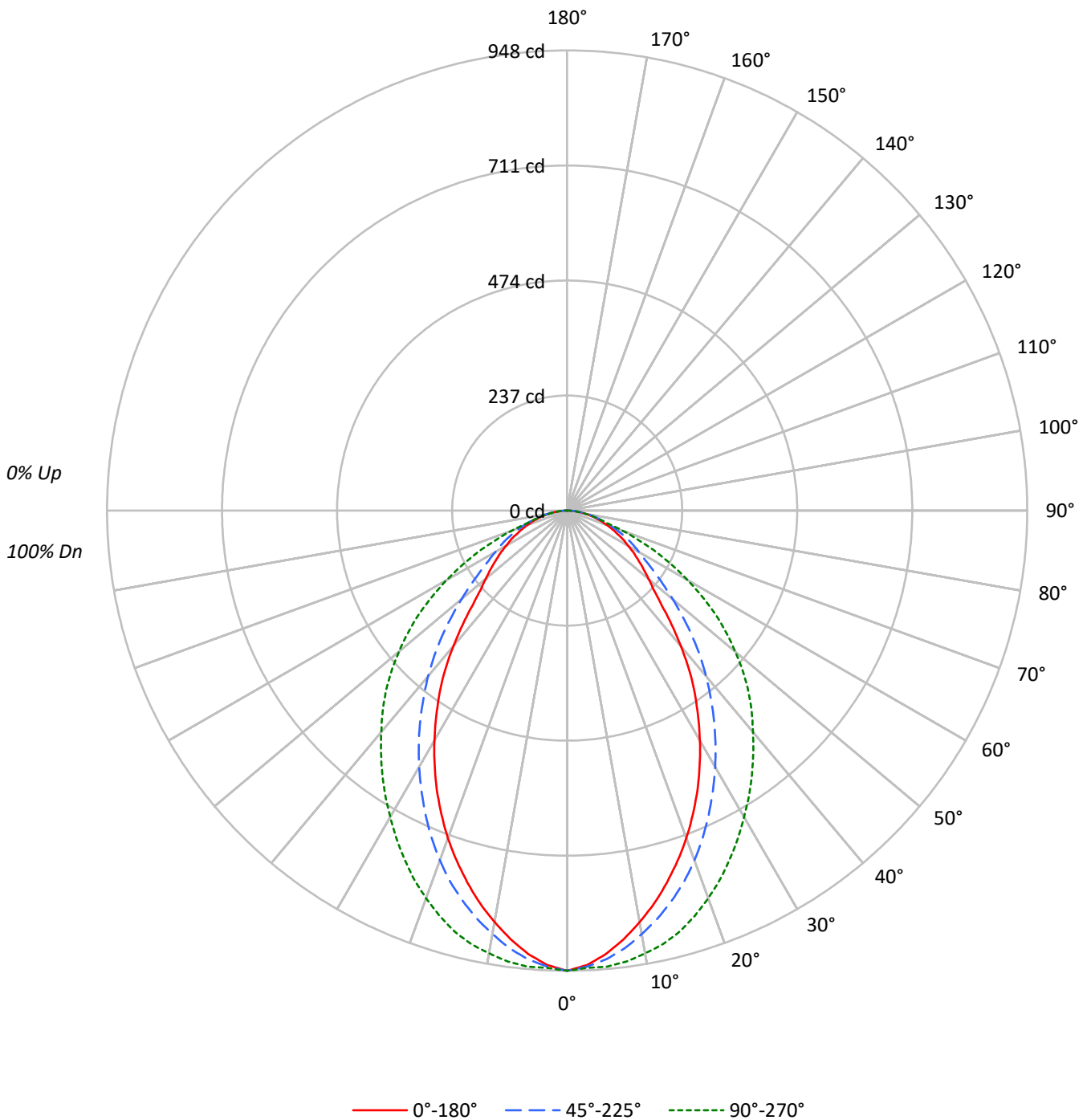
Lumens per Lamp: N/A
Luminaire Lumens: 1739.5 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87													87															
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75													75															
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65													65															
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57													57															
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50													50															
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45													45															
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40													40															
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37													37															
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33													33															
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31													31															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8163	8163	8163
5°	7926	8020	8150
10°	7526	7746	8099
15°	7075	7419	8002
20°	6581	7027	7787
25°	6034	6560	7533
30°	5439	6064	7249
35°	4815	5547	6976
40°	4093	5008	6695
45°	3351	4424	6436
50°	2934	3799	6058
55°	2695	3274	5604
60°	2499	2947	4941
65°	2341	2769	4136
70°	2195	2535	3104
75°	2066	2316	2262
80°	1914	2122	1914
85°	1739	2075	1660

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6436 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	5.0
10°-20°	235.7	13.6
20°-30°	322.2	18.5
30°-40°	338.6	19.5
40°-50°	293.9	16.9
50°-60°	221.7	12.7
60°-70°	143.7	8.3
70°-80°	73.8	4.2
80°-90°	22.3	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°	645.5	37.1
0°-40°	984.2	56.6
0°-60°	1499.7	86.2
0°-90°	1739.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1739.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	917	930	928	935	943	86
15°	794	813	832	870	898	222
25°	635	658	690	743	793	291
35°	458	483	528	598	664	285
45°	275	301	363	454	528	217
55°	180	185	218	310	373	162
65°	115	117	136	164	203	114
75°	62	70	70	70	68	66
85°	18	22	21	20	17	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.0	948.0	948.0	948.0	948.0
2.5°	937.1	948.8	940.4	942.1	942.9
5°	916.9	929.5	927.8	935.4	942.9
7.5°	890.9	906.0	909.4	924.5	937.1
10°	860.7	877.5	885.9	910.2	926.2
12.5°	828.9	845.6	860.7	891.8	914.4
15°	793.6	812.9	832.2	870.0	897.6
17.5°	756.7	776.8	801.2	842.3	875.0
20°	718.1	738.2	766.8	811.2	849.8
22.5°	677.0	699.7	729.9	777.7	823.0
25°	635.1	657.7	690.4	743.3	792.8
27.5°	591.4	614.9	650.2	708.9	761.7
30°	547.0	572.1	609.9	672.0	729.0
32.5°	501.7	528.5	568.8	635.1	697.1
35°	458.0	483.2	527.7	598.1	663.6
37.5°	412.7	437.9	485.7	562.1	630.0
40°	364.1	391.8	445.5	524.3	595.6
42.5°	318.8	346.5	404.4	488.3	562.9
45°	275.2	301.2	363.3	453.9	528.5
47.5°	241.6	260.1	322.1	420.3	491.6
50°	219.0	227.3	283.6	383.4	452.2
52.5°	198.8	205.5	248.3	346.5	413.6
55°	179.5	184.6	218.1	309.6	373.3
57.5°	162.8	165.3	191.3	272.6	329.7
60°	145.1	148.5	171.1	234.9	286.9
62.5°	130.9	132.5	153.5	198.8	244.1
65°	114.9	117.4	135.9	164.4	203.0
67.5°	100.7	104.9	117.4	134.2	160.2
70°	87.2	93.1	100.7	109.1	123.3
72.5°	74.7	81.4	85.6	88.9	86.4
75°	62.1	69.6	69.6	70.5	68.0
77.5°	50.3	57.0	56.2	55.4	52.0
80°	38.6	44.5	42.8	41.9	38.6
82.5°	28.5	32.7	31.0	30.2	26.0
85°	17.6	21.8	21.0	20.1	16.8
87.5°	8.4	12.6	11.7	10.9	7.6
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	13.80	15.29	14.16	15.60	15.91	17.53	19.02	17.90	19.33	19.65
	3H	15.47	16.80	15.84	17.13	17.49	18.66	19.99	19.04	20.32	20.68
	4H	16.13	17.38	16.53	17.73	18.11	18.96	20.21	19.36	20.56	20.93
	6H	16.64	17.79	17.05	18.16	18.55	19.16	20.31	19.57	20.68	21.07
	8H	16.81	17.91	17.24	18.30	18.70	19.21	20.31	19.64	20.70	21.10
	12H	16.93	17.98	17.36	18.37	18.80	19.25	20.30	19.68	20.68	21.11
4H	2H	14.59	15.84	14.99	16.19	16.57	17.70	18.95	18.10	19.30	19.68
	3H	16.46	17.50	16.87	17.90	18.30	19.03	20.07	19.44	20.47	20.87
	4H	17.27	18.20	17.70	18.61	19.05	19.45	20.38	19.88	20.80	21.24
	6H	17.91	18.72	18.37	19.16	19.62	19.77	20.58	20.23	21.02	21.48
	8H	18.13	18.89	18.60	19.33	19.80	19.86	20.62	20.33	21.07	21.53
	12H	18.30	18.97	18.78	19.45	19.92	19.94	20.61	20.42	21.09	21.56
8H	4H	17.61	18.37	18.08	18.82	19.28	19.58	20.34	20.05	20.78	21.25
	6H	18.40	19.03	18.90	19.52	20.00	20.00	20.63	20.50	21.12	21.60
	8H	18.72	19.28	19.24	19.79	20.28	20.16	20.72	20.67	21.23	21.72
	12H	18.99	19.48	19.50	19.97	20.54	20.30	20.79	20.81	21.29	21.85
12H	4H	17.64	18.32	18.13	18.80	19.27	19.59	20.26	20.07	20.74	21.21
	6H	18.46	19.03	18.98	19.54	20.03	20.02	20.58	20.54	21.09	21.58
	8H	18.85	19.35	19.36	19.84	20.40	20.23	20.73	20.74	21.22	21.79