

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: P1060605

Luminaire Tested: S124RDRP-S795D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060605
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-S795D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

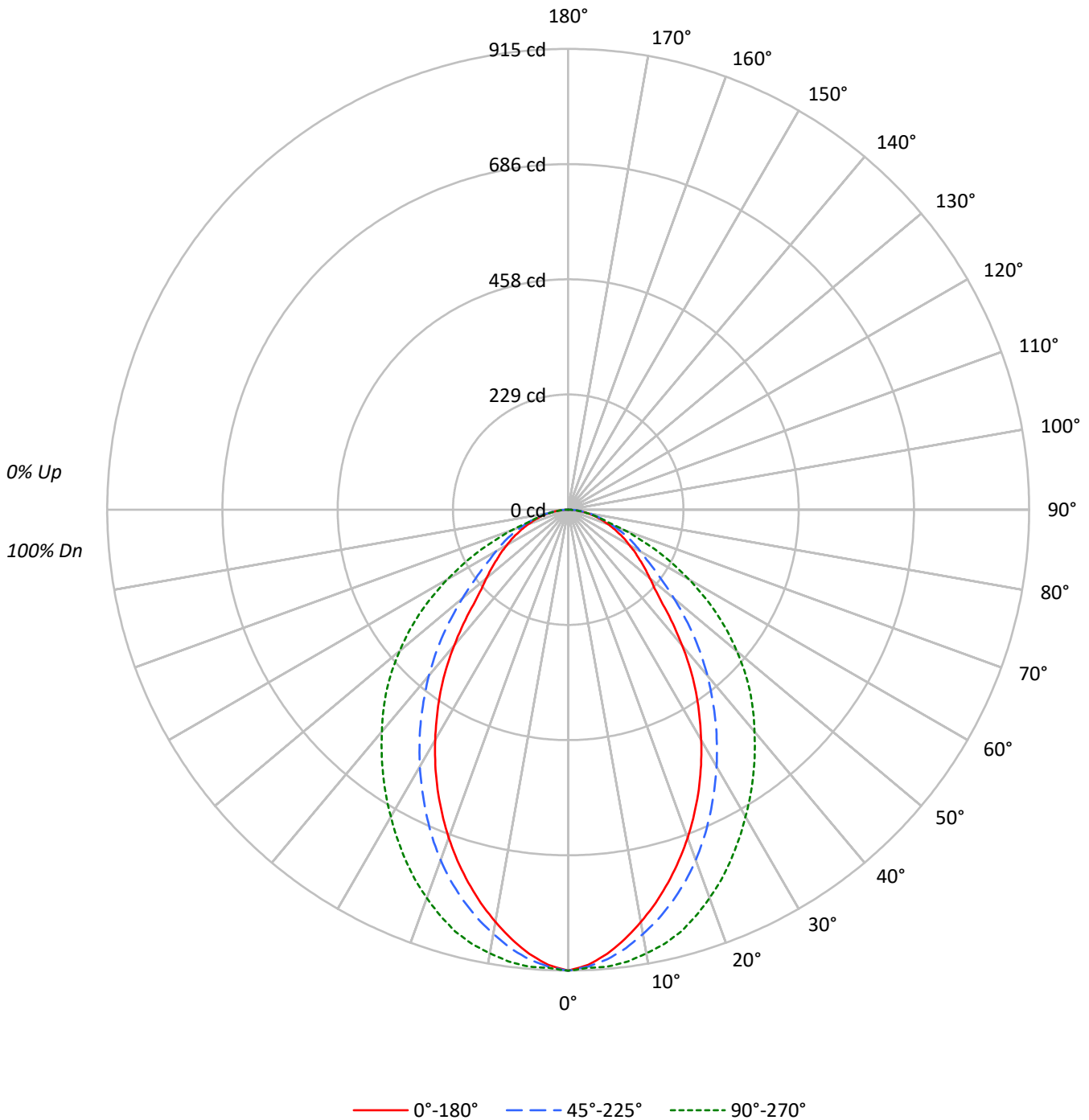
Lumens per Lamp: N/A
Luminaire Lumens: 1679.6 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (Ain): 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°	7882	7882	7882
5°	7653	7744	7870
10°	7267	7480	7820
15°	6831	7163	7727
20°	6354	6785	7520
25°	5826	6334	7273
30°	5251	5856	6999
35°	4650	5356	6735
40°	3952	4835	6465
45°	3236	4271	6214
50°	2832	3668	5849
55°	2602	3162	5412
60°	2413	2845	4771
65°	2262	2673	3994
70°	2120	2447	2999
75°	1993	2236	2183
80°	1850	2048	1850
85°	1680	2006	1601

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6214 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	5.0
10°-20°	227.6	13.6
20°-30°	311.1	18.5
30°-40°	327.0	19.5
40°-50°	283.7	16.9
50°-60°	214.0	12.7
60°-70°	138.7	8.3
70°-80°	71.2	4.2
80°-90°	21.6	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°	623.3	37.1
0°-40°	950.3	56.6
0°-60°	1448.0	86.2
0°-90°	1679.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	885	898	896	903	910	83
15°	766	785	804	840	867	215
25°	613	635	667	718	766	281
35°	442	467	510	578	641	275
45°	266	291	351	438	510	209
55°	173	178	211	299	360	156
65°	111	113	131	159	196	111
75°	60	67	67	68	66	64
85°	17	21	20	19	16	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.3	915.3	915.3	915.3	915.3
2.5°	904.8	916.1	908.0	909.7	910.5
5°	885.4	897.5	895.9	903.2	910.5
7.5°	860.2	874.8	878.1	892.6	904.8
10°	831.1	847.3	855.4	878.9	894.3
12.5°	800.3	816.5	831.1	861.1	882.9
15°	766.3	784.9	803.5	840.0	866.7
17.5°	730.6	750.1	773.6	813.3	844.9
20°	693.4	712.8	740.4	783.3	820.6
22.5°	653.7	675.6	704.7	750.9	794.6
25°	613.2	635.1	666.6	717.7	765.5
27.5°	571.1	593.7	627.8	684.5	735.5
30°	528.1	552.4	588.9	648.8	703.9
32.5°	484.4	510.3	549.2	613.2	673.1
35°	442.3	466.6	509.5	577.5	640.7
37.5°	398.5	422.8	469.0	542.7	608.3
40°	351.6	378.3	430.1	506.3	575.1
42.5°	307.8	334.5	390.4	471.4	543.5
45°	265.7	290.8	350.7	438.2	510.3
47.5°	233.3	251.1	311.0	405.8	474.7
50°	211.4	219.5	273.8	370.2	436.6
52.5°	192.0	198.5	239.8	334.5	399.3
55°	173.3	178.2	210.6	298.9	360.5
57.5°	157.1	159.6	184.7	263.3	318.3
60°	140.1	143.4	165.2	226.8	277.0
62.5°	126.4	128.0	148.2	192.0	235.7
65°	111.0	113.4	131.2	158.8	196.0
67.5°	97.2	101.3	113.4	129.6	154.7
70°	84.2	89.9	97.2	105.3	119.1
72.5°	72.1	78.6	82.6	85.9	83.4
75°	59.9	67.2	67.2	68.0	65.6
77.5°	48.6	55.1	54.3	53.5	50.2
80°	37.3	42.9	41.3	40.5	37.3
82.5°	27.5	31.6	30.0	29.2	25.1
85°	17.0	21.1	20.3	19.4	16.2
87.5°	8.1	12.2	11.3	10.5	7.3
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	13.68	15.16	14.04	15.48	15.79	17.41	18.90	17.78	19.21	19.53
	3H	15.34	16.68	15.72	17.00	17.37	18.54	19.87	18.92	20.20	20.56
	4H	16.01	17.26	16.41	17.61	17.99	18.84	20.08	19.24	20.43	20.81
	6H	16.52	17.67	16.93	18.04	18.43	19.04	20.19	19.45	20.56	20.95
	8H	16.69	17.79	17.12	18.18	18.58	19.09	20.19	19.52	20.58	20.98
	12H	16.81	17.86	17.24	18.24	18.67	19.12	20.17	19.55	20.56	20.99
4H	2H	14.47	15.72	14.87	16.07	16.45	17.58	18.83	17.98	19.18	19.56
	3H	16.34	17.38	16.75	17.78	18.18	18.91	19.95	19.32	20.35	20.75
	4H	17.14	18.08	17.58	18.49	18.93	19.33	20.26	19.76	20.67	21.11
	6H	17.79	18.60	18.24	19.04	19.50	19.65	20.46	20.11	20.90	21.36
	8H	18.01	18.77	18.47	19.21	19.68	19.74	20.50	20.21	20.94	21.41
	12H	18.17	18.85	18.66	19.33	19.80	19.81	20.49	20.30	20.97	21.44
8H	4H	17.49	18.25	17.96	18.69	19.16	19.46	20.22	19.92	20.66	21.13
	6H	18.28	18.91	18.78	19.40	19.88	19.88	20.50	20.38	21.00	21.47
	8H	18.60	19.16	19.11	19.67	20.16	20.04	20.60	20.55	21.11	21.60
	12H	18.86	19.36	19.37	19.85	20.42	20.18	20.67	20.69	21.16	21.73
12H	4H	17.52	18.20	18.00	18.68	19.15	19.46	20.14	19.95	20.62	21.09
	6H	18.34	18.91	18.86	19.42	19.90	19.90	20.46	20.42	20.97	21.46
	8H	18.73	19.22	19.24	19.72	20.28	20.11	20.61	20.62	21.10	21.66