

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: P1060596

Luminaire Tested: S124RDRP-S795D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060596
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-S795D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

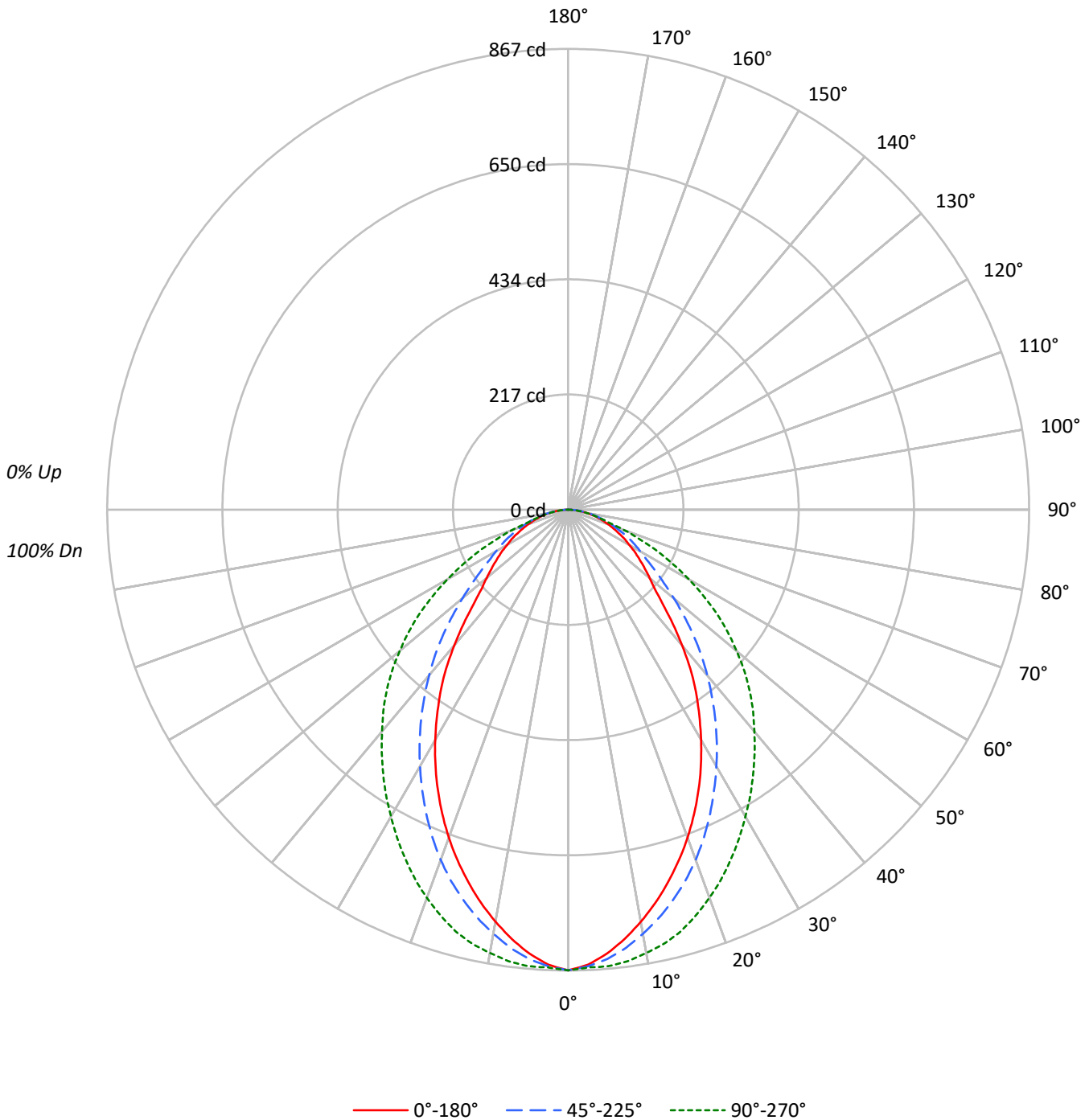
Lumens per Lamp: N/A
Luminaire Lumens: 1590.4 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7463	7463	7463
5°	7247	7333	7452
10°	6882	7083	7404
15°	6469	6783	7316
20°	6017	6425	7120
25°	5516	5998	6887
30°	4973	5544	6627
35°	4403	5072	6378
40°	3742	4578	6122
45°	3064	4044	5884
50°	2682	3474	5538
55°	2464	2994	5124
60°	2285	2695	4517
65°	2141	2533	3782
70°	2009	2316	2840
75°	1890	2119	2066
80°	1751	1939	1751
85°	1591	1897	1512

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5884 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	5.0
10°-20°	215.5	13.6
20°-30°	294.6	18.5
30°-40°	309.6	19.5
40°-50°	268.7	16.9
50°-60°	202.7	12.7
60°-70°	131.4	8.3
70°-80°	67.4	4.2
80°-90°	20.4	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°	590.2	37.1
0°-40°	899.8	56.6
0°-60°	1371.2	86.2
0°-90°	1590.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1590.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	838	850	848	855	862	78
15°	726	743	761	795	821	203
25°	581	601	631	680	725	266
35°	419	442	482	547	607	260
45°	252	275	332	415	483	198
55°	164	169	199	283	341	148
65°	105	107	124	150	186	105
75°	57	64	64	64	62	60
85°	16	20	19	18	15	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.7	866.7	866.7	866.7	866.7
2.5°	856.8	867.5	859.8	861.4	862.1
5°	838.4	849.9	848.3	855.2	862.1
7.5°	814.6	828.4	831.5	845.3	856.8
10°	787.0	802.3	810.0	832.2	846.8
12.5°	757.8	773.2	787.0	815.4	836.1
15°	725.6	743.3	760.9	795.4	820.7
17.5°	691.9	710.3	732.5	770.1	800.0
20°	656.6	675.0	701.1	741.7	777.0
22.5°	619.0	639.7	667.3	711.0	752.5
25°	580.6	601.4	631.3	679.6	724.8
27.5°	540.8	562.2	594.4	648.1	696.5
30°	500.1	523.1	557.6	614.4	666.5
32.5°	458.7	483.2	520.0	580.6	637.4
35°	418.8	441.8	482.5	546.9	606.7
37.5°	377.4	400.4	444.1	513.9	576.0
40°	332.9	358.2	407.3	479.4	544.6
42.5°	291.5	316.8	369.7	446.4	514.7
45°	251.6	275.4	332.1	415.0	483.2
47.5°	220.9	237.8	294.5	384.3	449.5
50°	200.2	207.9	259.3	350.5	413.4
52.5°	181.8	187.9	227.0	316.8	378.1
55°	164.1	168.7	199.4	283.0	341.3
57.5°	148.8	151.1	174.9	249.3	301.4
60°	132.7	135.8	156.5	214.8	262.3
62.5°	119.7	121.2	140.4	181.8	223.2
65°	105.1	107.4	124.3	150.3	185.6
67.5°	92.0	95.9	107.4	122.7	146.5
70°	79.8	85.1	92.0	99.7	112.8
72.5°	68.3	74.4	78.2	81.3	79.0
75°	56.8	63.7	63.7	64.4	62.1
77.5°	46.0	52.2	51.4	50.6	47.6
80°	35.3	40.7	39.1	38.4	35.3
82.5°	26.1	29.9	28.4	27.6	23.8
85°	16.1	19.9	19.2	18.4	15.3
87.5°	7.7	11.5	10.7	10.0	6.9
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	13.49	14.97	13.85	15.29	15.60	17.22	18.71	17.59	19.02	19.34
	3H	15.15	16.49	15.53	16.81	17.18	18.35	19.68	18.73	20.01	20.37
	4H	15.82	17.07	16.22	17.42	17.80	18.65	19.90	19.05	20.24	20.62
	6H	16.33	17.48	16.74	17.85	18.24	18.85	20.00	19.26	20.37	20.76
	8H	16.50	17.60	16.93	17.99	18.39	18.90	20.00	19.33	20.39	20.79
	12H	16.62	17.67	17.05	18.06	18.49	18.93	19.98	19.37	20.37	20.80
4H	2H	14.28	15.53	14.68	15.88	16.26	17.39	18.64	17.79	18.99	19.37
	3H	16.15	17.19	16.56	17.59	17.99	18.72	19.76	19.13	20.16	20.56
	4H	16.96	17.89	17.39	18.30	18.74	19.14	20.07	19.57	20.48	20.92
	6H	17.60	18.41	18.06	18.85	19.31	19.46	20.27	19.92	20.71	21.17
	8H	17.82	18.58	18.29	19.02	19.49	19.55	20.31	20.02	20.76	21.22
	12H	17.99	18.66	18.47	19.14	19.61	19.63	20.30	20.11	20.78	21.25
8H	4H	17.30	18.06	17.77	18.50	18.97	19.27	20.03	19.73	20.47	20.94
	6H	18.09	18.72	18.59	19.21	19.69	19.69	20.31	20.19	20.81	21.28
	8H	18.41	18.97	18.93	19.48	19.97	19.85	20.41	20.36	20.92	21.41
	12H	18.68	19.17	19.19	19.66	20.23	19.99	20.48	20.50	20.97	21.54
12H	4H	17.33	18.01	17.82	18.49	18.96	19.27	19.95	19.76	20.43	20.90
	6H	18.15	18.72	18.67	19.23	19.72	19.71	20.27	20.23	20.78	21.27
	8H	18.54	19.04	19.05	19.53	20.09	19.92	20.42	20.43	20.91	21.47