

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: P1060372

Luminaire Tested: S124RDRP-S1195D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-39)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D950-X4F0-XX-UDD-BVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

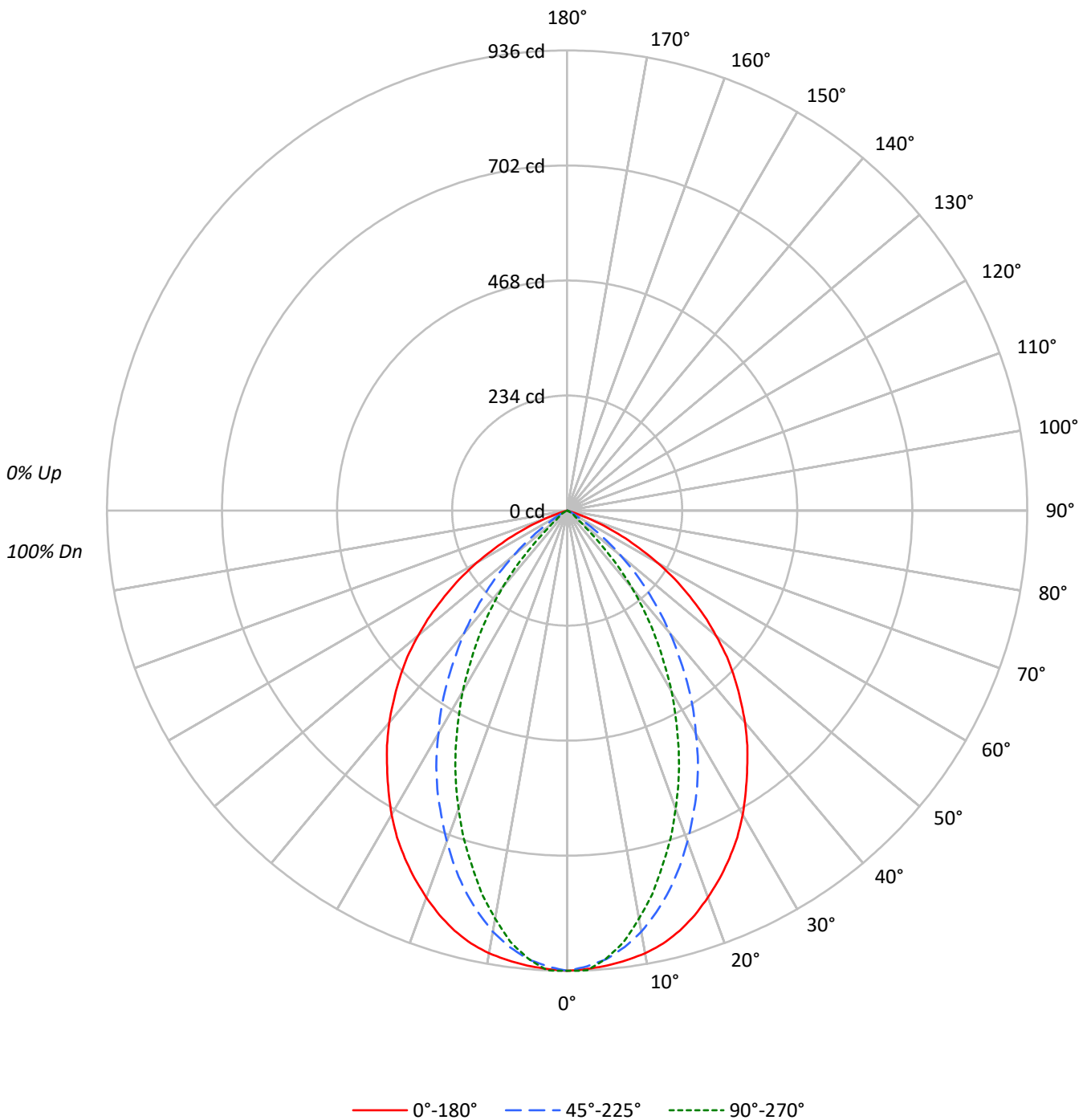
Lumens per Lamp: N/A
Luminaire Lumens: 1222.3 lumens
Efficiency: N/A
Efficacy: 29.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8061	8061	8061
5°	8033	7916	7904
10°	7995	7606	7369
15°	7887	7139	6668
20°	7673	6558	5912
25°	7416	5937	5102
30°	7101	5205	4223
35°	6712	4465	3285
40°	6325	3665	2297
45°	5865	2817	1136
50°	5292	1902	380
55°	4570	974	264
60°	3658	350	186
65°	2508	194	84
70°	1123	103	68
75°	0	47	47
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5865 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	7.1
10°-20°	226.6	18.5
20°-30°	293.3	24.0
30°-40°	278.7	22.8
40°-50°	197.4	16.1
50°-60°	101.3	8.3
60°-70°	35.4	2.9
70°-80°	3.1	0.3
80°-90°	0.0	0.0
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°	606.4	49.6
0°-40°	885.1	72.4
0°-60°	1183.8	96.8
0°-90°	1222.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	929	931	916	916	914	88
15°	885	858	801	763	748	249
25°	780	720	625	559	537	359
35°	638	545	425	342	312	399
45°	482	371	231	133	93	371
55°	304	200	65	19	18	272
65°	123	60	10	5	4	122
75°	0	1	1	1	1	10
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.1	936.1	936.1	936.1	936.1
2.5°	933.3	936.1	927.9	934.7	936.1
5°	929.3	930.6	915.8	915.8	914.4
7.5°	922.5	919.8	895.5	886.0	884.7
10°	914.4	904.9	869.8	849.5	842.7
12.5°	902.2	884.7	837.3	807.5	799.4
15°	884.7	857.6	800.8	762.9	748.0
17.5°	863.0	827.8	760.2	714.2	699.3
20°	837.3	792.7	715.6	664.2	645.2
22.5°	810.3	758.9	669.6	611.4	592.5
25°	780.5	719.6	624.9	558.7	537.0
27.5°	749.4	677.7	576.2	507.3	478.8
30°	714.2	635.8	523.5	451.8	424.7
32.5°	676.3	589.8	476.1	399.0	366.6
35°	638.5	545.1	424.7	342.2	312.5
37.5°	601.9	503.2	373.3	286.8	258.4
40°	562.7	457.2	326.0	236.7	204.3
42.5°	522.1	412.6	277.3	185.3	150.1
45°	481.6	370.6	231.3	132.6	93.3
47.5°	441.0	326.0	186.7	83.9	50.0
50°	395.0	282.7	142.0	44.6	28.4
52.5°	351.7	242.1	101.5	25.7	21.6
55°	304.4	200.2	64.9	18.9	17.6
57.5°	259.7	159.6	36.5	14.9	13.5
60°	212.4	123.1	20.3	12.2	10.8
62.5°	165.0	89.3	13.5	8.1	6.8
65°	123.1	59.5	9.5	5.4	4.1
67.5°	81.2	33.8	6.8	2.7	2.7
70°	44.6	16.2	4.1	2.7	2.7
72.5°	16.2	5.4	2.7	1.4	1.4
75°	0.0	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	1.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	15.78	17.04	16.14	17.35	17.66	0.00	0.00	0.00	0.02	0.34
	3H	16.06	17.16	16.44	17.49	17.86	0.00	0.00	0.00	0.00	0.33
	4H	15.98	17.00	16.38	17.36	17.74	0.00	0.00	0.00	0.00	0.28
	6H	15.89	16.83	16.31	17.20	17.60	0.00	0.00	0.00	0.00	0.17
	8H	15.85	16.73	16.28	17.12	17.53	0.00	0.00	0.00	0.00	0.10
	12H	15.80	16.65	16.23	17.03	17.46	0.00	0.00	0.00	0.00	0.03
4H	2H	15.55	16.58	15.96	16.93	17.31	0.00	0.00	0.00	0.29	0.68
	3H	15.84	16.66	16.25	17.07	17.47	0.00	0.00	0.00	0.29	0.69
	4H	15.74	16.48	16.18	16.90	17.34	0.00	0.00	0.00	0.20	0.64
	6H	15.66	16.29	16.12	16.73	17.20	0.00	0.00	0.00	0.06	0.53
	8H	15.59	16.18	16.07	16.63	17.10	0.00	0.00	0.00	0.00	0.43
	12H	15.54	16.06	16.03	16.54	17.02	0.00	0.00	0.00	0.00	0.35
8H	4H	15.59	16.18	16.07	16.63	17.10	0.00	0.00	0.00	0.14	0.61
	6H	15.49	15.96	15.99	16.46	16.94	0.00	0.00	0.00	0.00	0.48
	8H	15.42	15.85	15.94	16.36	16.86	0.00	0.00	0.00	0.00	0.39
	12H	15.37	15.75	15.89	16.24	16.82	0.00	0.00	0.00	0.00	0.35
12H	4H	15.54	16.06	16.03	16.54	17.02	0.00	0.00	0.00	0.05	0.53
	6H	15.42	15.85	15.94	16.36	16.86	0.00	0.00	0.00	0.00	0.39
	8H	15.37	15.75	15.89	16.24	16.82	0.00	0.00	0.00	0.00	0.35