

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: P1060366

Luminaire Tested: S124RDRP-S1195D940-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D940-X4F0-XX-UDD-SVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

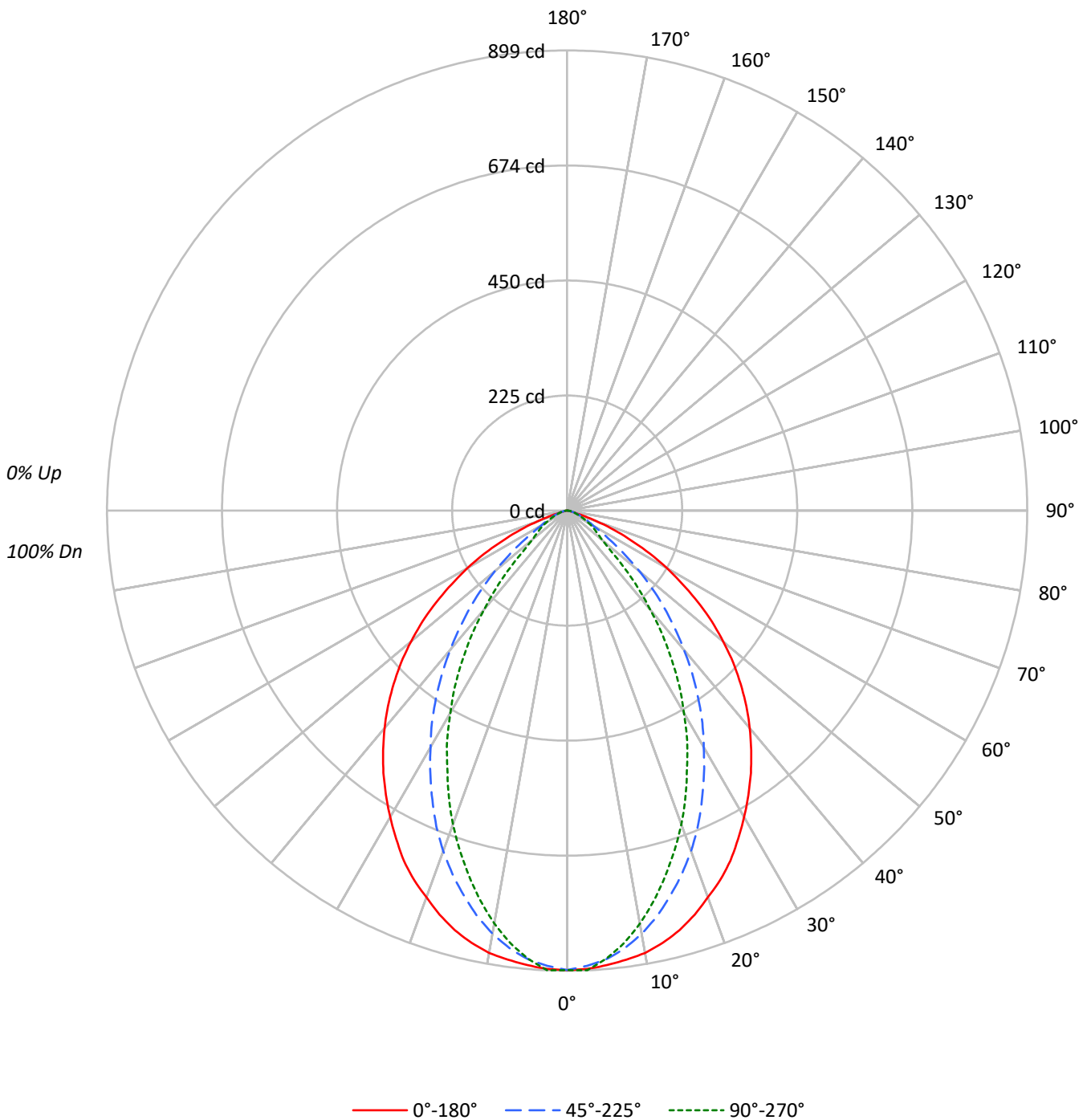
Lumens per Lamp: N/A
Luminaire Lumens: 1323.5 lumens
Efficiency: N/A
Efficacy: 31.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90				90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71				71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				63
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57				57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	48	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43				43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7730	7730	7730
5°	7705	7607	7596
10°	7673	7341	7164
15°	7563	6943	6593
20°	7369	6488	5978
25°	7172	5922	5262
30°	6877	5306	4538
35°	6579	4692	3748
40°	6239	3994	2843
45°	5836	3264	1910
50°	5336	2473	1186
55°	4689	1632	1006
60°	3877	1002	827
65°	2808	772	670
70°	1528	574	509
75°	336	419	462
80°	253	312	377
85°	247	247	375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5836 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	6.3
10°-20°	220.9	16.7
20°-30°	292.6	22.1
30°-40°	290.4	21.9
40°-50°	223.5	16.9
50°-60°	133.2	10.1
60°-70°	60.5	4.6
70°-80°	15.7	1.2
80°-90°	3.5	0.3
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°	596.7	45.1
0°-40°	887.1	67.0
0°-60°	1243.8	94.0
0°-90°	1323.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1323.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	891	893	880	880	879	85
15°	848	827	779	752	740	239
25°	755	700	623	572	554	346
35°	626	548	446	378	356	391
45°	479	386	268	187	157	369
55°	312	222	109	68	67	278
65°	138	82	38	33	33	139
75°	10	13	13	14	14	21
85°	2	2	2	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.7	897.7	897.7	897.7	897.7
2.5°	896.4	897.7	890.1	896.4	898.9
5°	891.4	892.6	880.0	880.0	878.7
7.5°	885.0	882.5	862.3	854.7	852.2
10°	877.5	868.6	839.5	824.4	819.3
12.5°	864.8	850.9	811.7	790.2	781.4
15°	848.4	826.9	778.8	752.3	739.6
17.5°	828.1	801.6	744.7	710.6	696.7
20°	804.1	768.7	708.0	665.0	652.4
22.5°	781.4	737.1	667.6	618.3	604.4
25°	754.8	700.4	623.3	571.5	553.8
27.5°	723.2	665.0	579.1	526.0	508.3
30°	691.6	627.1	533.6	477.9	456.4
32.5°	658.7	587.9	491.8	428.6	408.4
35°	625.8	547.5	446.3	378.0	356.5
37.5°	590.4	507.0	400.8	330.0	306.0
40°	555.0	467.8	355.3	283.2	252.9
42.5°	518.4	427.3	311.0	235.2	204.8
45°	479.2	385.6	268.0	187.1	156.8
47.5°	440.0	346.4	225.1	140.3	112.5
50°	398.3	304.7	184.6	102.4	88.5
52.5°	356.5	264.2	144.1	79.7	75.9
55°	312.3	222.5	108.7	68.3	67.0
57.5°	266.8	184.6	78.4	59.4	56.9
60°	225.1	149.2	58.2	50.6	48.0
62.5°	182.1	112.5	48.0	41.7	39.2
65°	137.8	82.2	37.9	32.9	32.9
67.5°	99.9	55.6	30.3	26.6	25.3
70°	60.7	34.1	22.8	21.5	20.2
72.5°	30.3	20.2	17.7	16.4	16.4
75°	10.1	12.6	12.6	13.9	13.9
77.5°	7.6	8.9	8.9	10.1	10.1
80°	5.1	6.3	6.3	7.6	7.6
82.5°	3.8	3.8	5.1	5.1	6.3
85°	2.5	2.5	2.5	3.8	3.8
87.5°	1.3	1.3	1.3	2.5	2.5
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	16.22	17.56	16.59	17.87	18.19	7.77	9.11	8.14	9.42	9.73
	3H	16.73	17.91	17.11	18.24	18.61	8.59	9.77	8.97	10.10	10.46
	4H	16.70	17.80	17.10	18.15	18.53	8.87	9.97	9.27	10.32	10.70
	6H	16.64	17.64	17.05	18.01	18.41	9.04	10.05	9.46	10.42	10.81
	8H	16.60	17.55	17.03	17.94	18.35	9.11	10.06	9.54	10.45	10.86
	12H	16.56	17.47	16.99	17.85	18.28	9.15	10.06	9.59	10.45	10.88
4H	2H	16.07	17.17	16.47	17.52	17.90	8.21	9.31	8.62	9.66	10.04
	3H	16.62	17.51	17.03	17.92	18.32	9.18	10.07	9.59	10.48	10.88
	4H	16.59	17.39	17.02	17.80	18.25	9.54	10.34	9.98	10.76	11.20
	6H	16.54	17.22	17.00	17.67	18.14	9.79	10.48	10.26	10.92	11.39
	8H	16.49	17.13	16.96	17.58	18.05	9.88	10.52	10.35	10.97	11.44
	12H	16.45	17.02	16.94	17.50	17.97	9.96	10.52	10.44	11.00	11.48
8H	4H	16.48	17.12	16.95	17.57	18.04	9.63	10.27	10.10	10.72	11.19
	6H	16.42	16.94	16.92	17.44	17.92	9.94	10.46	10.44	10.96	11.44
	8H	16.37	16.84	16.89	17.35	17.85	10.07	10.54	10.60	11.06	11.55
	12H	16.34	16.75	16.85	17.25	17.82	10.21	10.62	10.72	11.12	11.69
12H	4H	16.44	17.00	16.92	17.48	17.96	9.60	10.17	10.09	10.65	11.13
	6H	16.36	16.83	16.88	17.35	17.84	9.92	10.39	10.44	10.91	11.40
	8H	16.34	16.75	16.85	17.24	17.82	10.09	10.51	10.61	11.00	11.57