

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: P1060373

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)
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-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

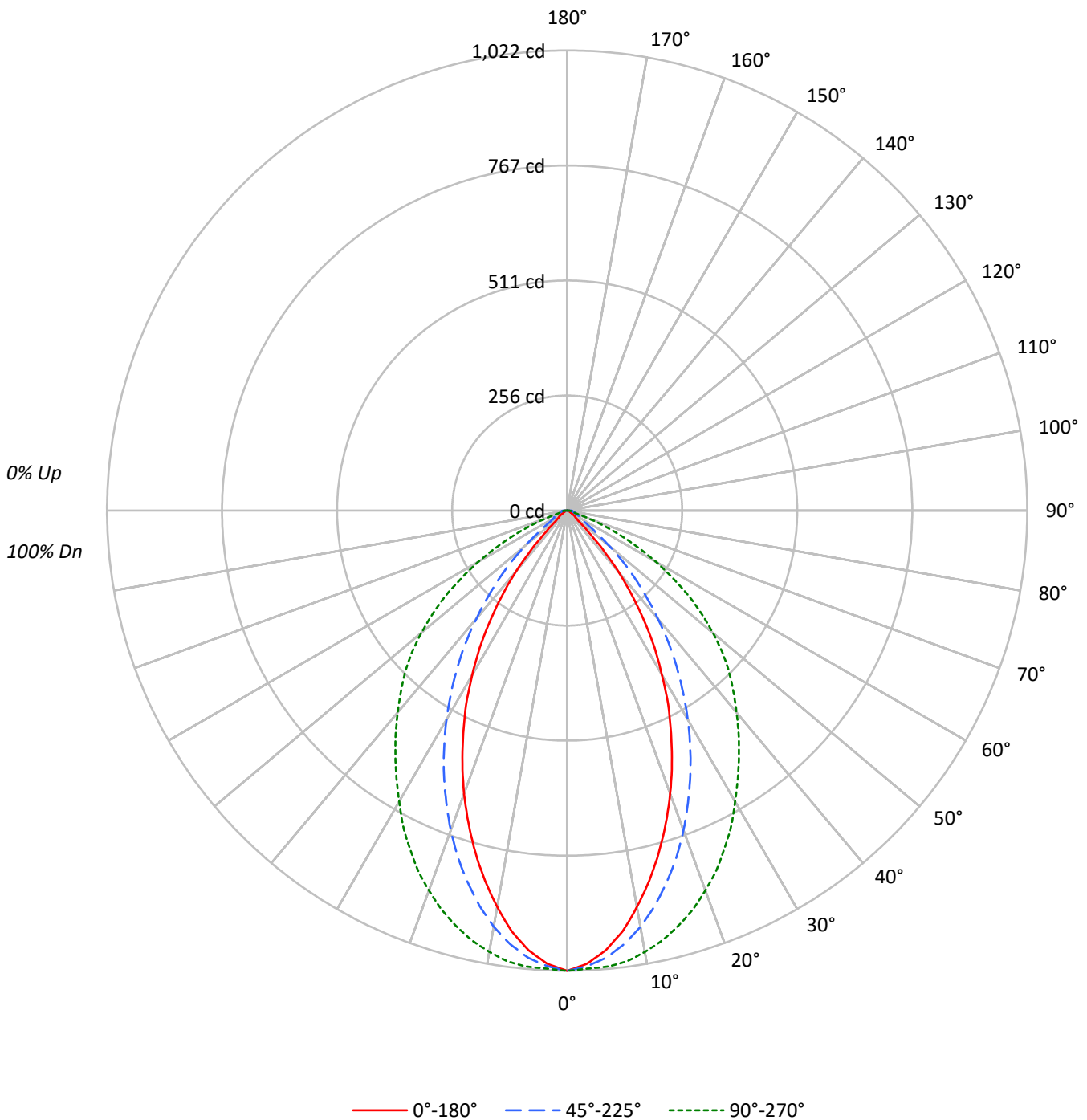
Lumens per Lamp: N/A
Luminaire Lumens: 1283.1 lumens
Efficiency: N/A
Efficacy: 30.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																												
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81																												
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73																												
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																												
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59																												
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54																												
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50																												
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46																												
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																												
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8804	8804	8804
5°	8475	8615	8791
10°	7814	8205	8703
15°	7014	7618	8511
20°	6131	6924	8227
25°	5185	6150	7861
30°	4187	5332	7419
35°	3118	4456	6990
40°	1978	3532	6576
45°	792	2589	6201
50°	344	1650	5660
55°	264	854	4941
60°	186	584	3918
65°	139	579	2677
70°	136	511	1226
75°	180	539	496
80°	268	605	536
85°	534	1067	800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6201 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	7.3
10°-20°	241.4	18.8
20°-30°	304.9	23.8
30°-40°	280.0	21.8
40°-50°	190.9	14.9
50°-60°	103.6	8.1
60°-70°	43.9	3.4
70°-80°	15.2	1.2
80°-90°	9.6	0.8
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°	639.9	49.9
0°-40°	919.9	71.7
0°-60°	1214.4	94.6
0°-90°	1283.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1283.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	980	995	997	1005	1017	91
15°	787	812	854	915	955	219
25°	546	581	647	748	827	249
35°	297	336	424	557	665	184
45°	65	104	213	376	509	60
55°	18	19	57	207	329	16
65°	7	8	28	65	131	7
75°	5	15	16	15	15	6
85°	5	11	11	11	8	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.4	1022.4	1022.4	1022.4	1022.4
2.5°	1007.5	1019.7	1012.9	1015.6	1018.3
5°	980.4	995.3	996.7	1004.8	1017.0
7.5°	942.5	960.1	970.9	991.2	1010.2
10°	893.7	915.4	938.4	970.9	995.3
12.5°	842.3	865.3	899.2	945.2	977.7
15°	786.8	812.5	854.5	915.4	954.7
17.5°	728.5	757.0	807.1	878.8	929.0
20°	669.0	700.1	755.6	836.9	897.8
22.5°	608.0	640.5	701.5	793.5	865.3
25°	545.7	580.9	647.3	747.5	827.4
27.5°	486.1	518.6	591.8	701.5	789.5
30°	421.1	457.7	536.2	654.1	746.1
32.5°	361.6	396.8	479.4	605.3	705.5
35°	296.6	335.8	423.9	556.6	664.9
37.5°	235.6	273.5	369.7	510.5	625.6
40°	176.0	215.3	314.2	464.5	585.0
42.5°	117.8	159.8	261.4	417.1	547.1
45°	65.0	104.3	212.6	376.5	509.2
47.5°	33.9	56.9	166.6	335.8	468.5
50°	25.7	31.1	123.2	291.1	422.5
52.5°	21.7	23.0	84.0	246.5	376.5
55°	17.6	19.0	56.9	207.2	329.1
57.5°	13.5	14.9	40.6	169.3	276.2
60°	10.8	12.2	33.9	130.0	227.5
62.5°	8.1	9.5	32.5	96.1	178.7
65°	6.8	8.1	28.4	65.0	131.4
67.5°	5.4	8.1	24.4	42.0	88.0
70°	5.4	10.8	20.3	27.1	48.7
72.5°	5.4	12.2	17.6	17.6	17.6
75°	5.4	14.9	16.2	14.9	14.9
77.5°	5.4	13.5	13.5	13.5	13.5
80°	5.4	12.2	12.2	12.2	10.8
82.5°	5.4	10.8	12.2	12.2	9.5
85°	5.4	10.8	10.8	10.8	8.1
87.5°	4.1	10.8	10.8	10.8	5.4
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	0.00	0.00	0.00	0.00	0.16	16.00	17.28	16.37	17.59	17.90
	3H	0.00	0.63	0.00	0.97	1.33	16.36	17.48	16.74	17.81	18.18
	4H	0.89	1.94	1.29	2.29	2.67	16.32	17.37	16.73	17.72	18.11
	6H	2.25	3.22	2.67	3.59	3.98	16.30	17.26	16.71	17.63	18.02
	8H	2.93	3.84	3.36	4.24	4.64	16.29	17.20	16.72	17.59	17.99
	12H	3.73	4.61	4.17	4.99	5.42	16.28	17.15	16.72	17.54	17.97
4H	2H	1.69	2.74	2.10	3.09	3.48	15.80	16.85	16.21	17.20	17.59
	3H	3.11	3.97	3.53	4.37	4.78	16.20	17.05	16.61	17.46	17.86
	4H	4.56	5.33	5.00	5.75	6.19	16.18	16.94	16.61	17.36	17.81
	6H	5.81	6.47	6.27	6.91	7.38	16.20	16.85	16.66	17.30	17.77
	8H	6.37	6.99	6.85	7.44	7.91	16.21	16.82	16.68	17.27	17.74
	12H	7.05	7.59	7.53	8.07	8.55	16.24	16.78	16.73	17.27	17.74
8H	4H	5.64	6.25	6.11	6.70	7.17	16.08	16.69	16.55	17.14	17.61
	6H	7.25	7.75	7.75	8.25	8.73	16.13	16.63	16.63	17.13	17.61
	8H	8.08	8.53	8.60	9.05	9.54	16.18	16.64	16.71	17.15	17.65
	12H	9.04	9.44	9.56	9.94	10.51	16.30	16.70	16.82	17.20	17.77
12H	4H	5.83	6.37	6.31	6.85	7.33	16.04	16.58	16.53	17.07	17.54
	6H	7.60	8.05	8.12	8.56	9.06	16.10	16.55	16.62	17.06	17.56
	8H	8.61	9.01	9.13	9.51	10.08	16.20	16.60	16.72	17.09	17.67