

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060376

Luminaire Tested: S124RDR-S1195D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D950-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

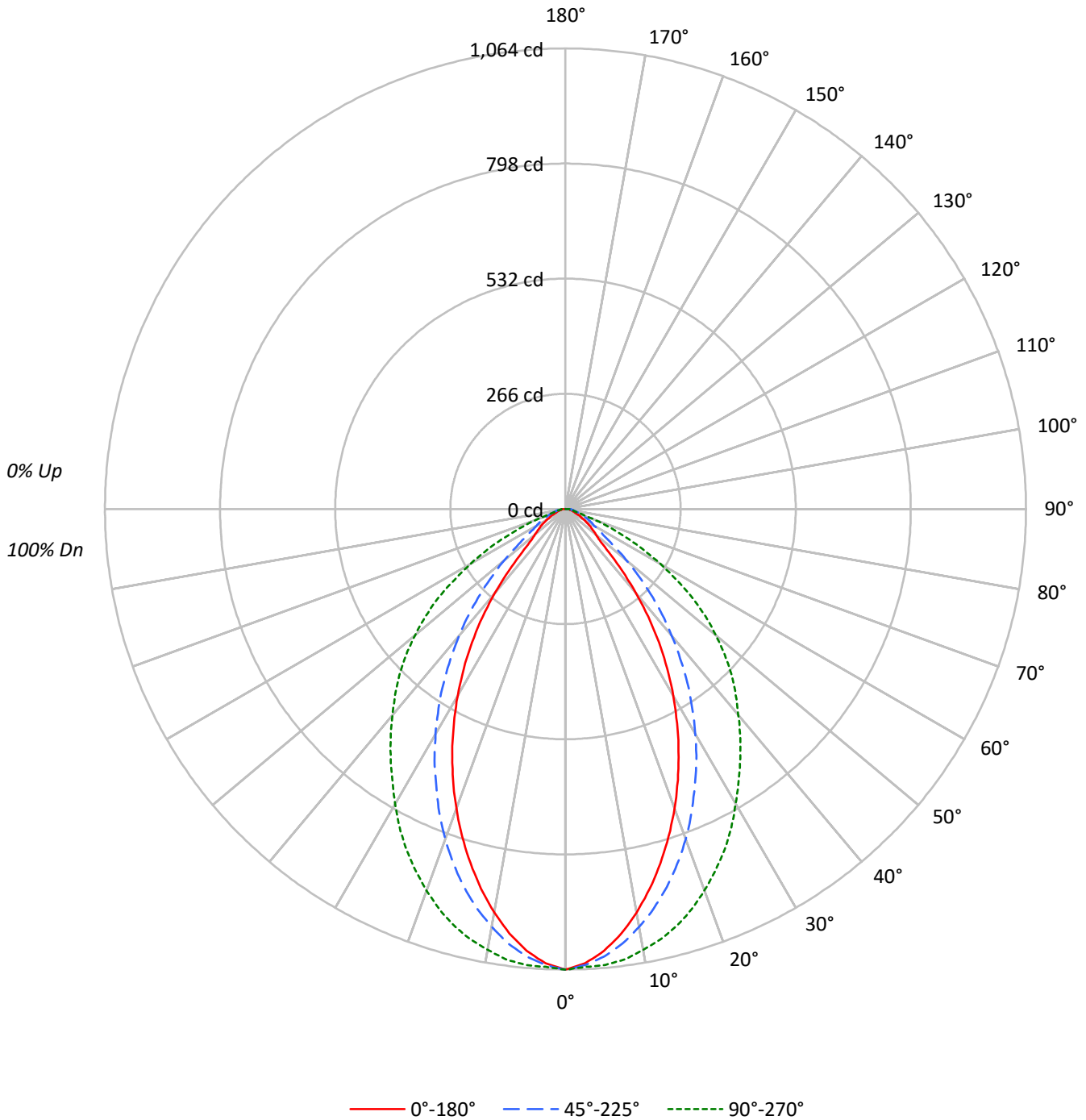
Lumens per Lamp: N/A
Luminaire Lumens: 1496.3 lumens
Efficiency: N/A
Efficacy: 35.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63				63
5	84	73	66	61	82	72	65	60	70	64	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	49	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43				43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9163	9163	9163
5°	8859	8965	9140
10°	8275	8571	9045
15°	7555	8063	8883
20°	6749	7444	8597
25°	5878	6715	8259
30°	4954	5964	7821
35°	3957	5167	7401
40°	2846	4292	6985
45°	1715	3379	6611
50°	1234	2449	6075
55°	1036	1647	5387
60°	839	1305	4337
65°	662	1186	3117
70°	579	989	1669
75°	539	902	812
80°	536	942	739
85°	800	1334	939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6611 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	6.5
10°-20°	256.0	17.1
20°-30°	332.1	22.2
30°-40°	319.2	21.3
40°-50°	236.9	15.8
50°-60°	145.1	9.7
60°-70°	70.5	4.7
70°-80°	26.8	1.8
80°-90°	12.1	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°	685.8	45.8
0°-40°	1005.0	67.2
0°-60°	1387.0	92.7
0°-90°	1496.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1496.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1025	1040	1037	1046	1057	95
15°	848	872	904	958	996	237
25°	619	650	707	797	869	283
35°	376	410	492	608	704	233
45°	141	176	278	424	543	117
55°	69	72	110	248	359	62
65°	32	35	58	92	153	34
75°	16	26	27	24	24	17
85°	8	14	14	12	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.1	1064.1	1064.1	1064.1	1064.1
2.5°	1050.6	1062.8	1054.7	1057.4	1058.7
5°	1024.9	1039.8	1037.1	1046.5	1057.4
7.5°	989.7	1007.3	1012.7	1031.7	1049.3
10°	946.4	968.0	980.2	1011.3	1034.4
12.5°	899.0	922.0	945.0	987.0	1018.1
15°	847.5	871.9	904.4	958.5	996.4
17.5°	793.4	820.4	859.7	924.7	969.4
20°	736.5	764.9	812.3	884.1	938.2
22.5°	678.3	708.1	760.9	840.8	904.4
25°	618.7	649.9	706.7	797.4	869.2
27.5°	557.8	590.3	655.3	751.4	829.9
30°	498.2	529.4	599.8	704.0	786.6
32.5°	437.3	469.8	545.6	655.3	744.6
35°	376.4	410.2	491.5	607.9	704.0
37.5°	314.1	350.7	435.9	561.9	663.4
40°	253.2	288.4	381.8	514.5	621.4
42.5°	193.6	231.5	330.3	467.1	582.2
45°	140.8	176.0	277.5	423.8	542.9
47.5°	105.6	127.3	228.8	383.1	499.6
50°	92.1	96.1	182.8	338.5	453.5
52.5°	79.9	82.6	142.2	289.7	407.5
55°	69.0	71.8	109.7	247.8	358.8
57.5°	58.2	60.9	88.0	207.1	303.3
60°	48.7	51.4	75.8	165.2	251.8
62.5°	40.6	42.0	67.7	125.9	201.7
65°	32.5	35.2	58.2	92.1	153.0
67.5°	27.1	29.8	47.4	63.6	107.0
70°	23.0	29.8	39.3	44.7	66.3
72.5°	19.0	27.1	32.5	31.1	31.1
75°	16.2	25.7	27.1	24.4	24.4
77.5°	13.5	23.0	21.7	20.3	19.0
80°	10.8	19.0	19.0	16.2	14.9
82.5°	9.5	14.9	14.9	14.9	12.2
85°	8.1	13.5	13.5	12.2	9.5
87.5°	5.4	10.8	12.2	10.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)