

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: P1060373

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S124RDR-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

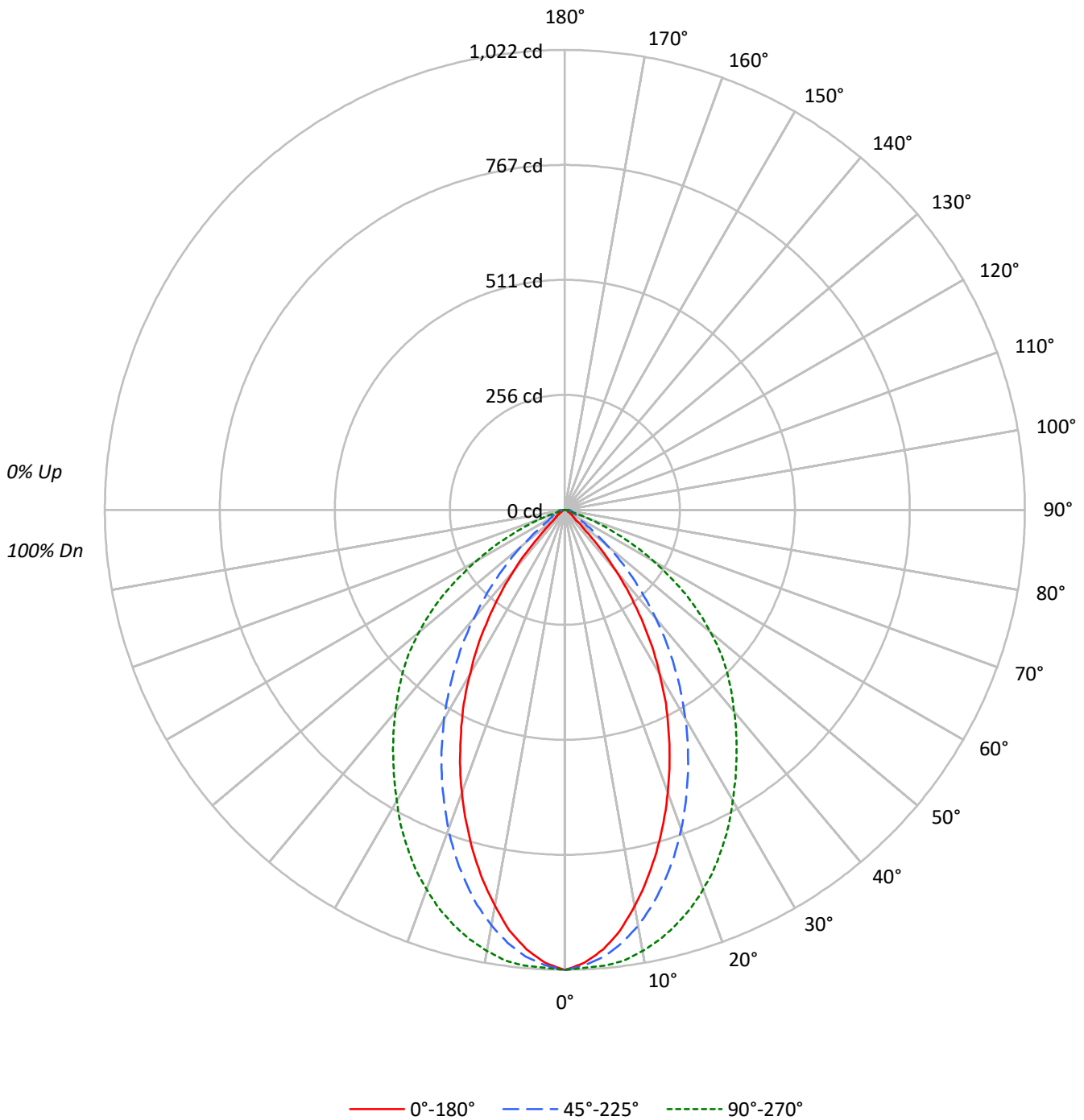
Lumens per Lamp: N/A
Luminaire Lumens: 1283.1 lumens
Efficiency: N/A
Efficacy: 30.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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				
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

(END OF REPORT)