

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: P1056006

Luminaire Tested: S124R3DR-S1195D950-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124R3DR-S1195D950-X4F0-XX-UDD-FLL-W
Description: DEFINE 4, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

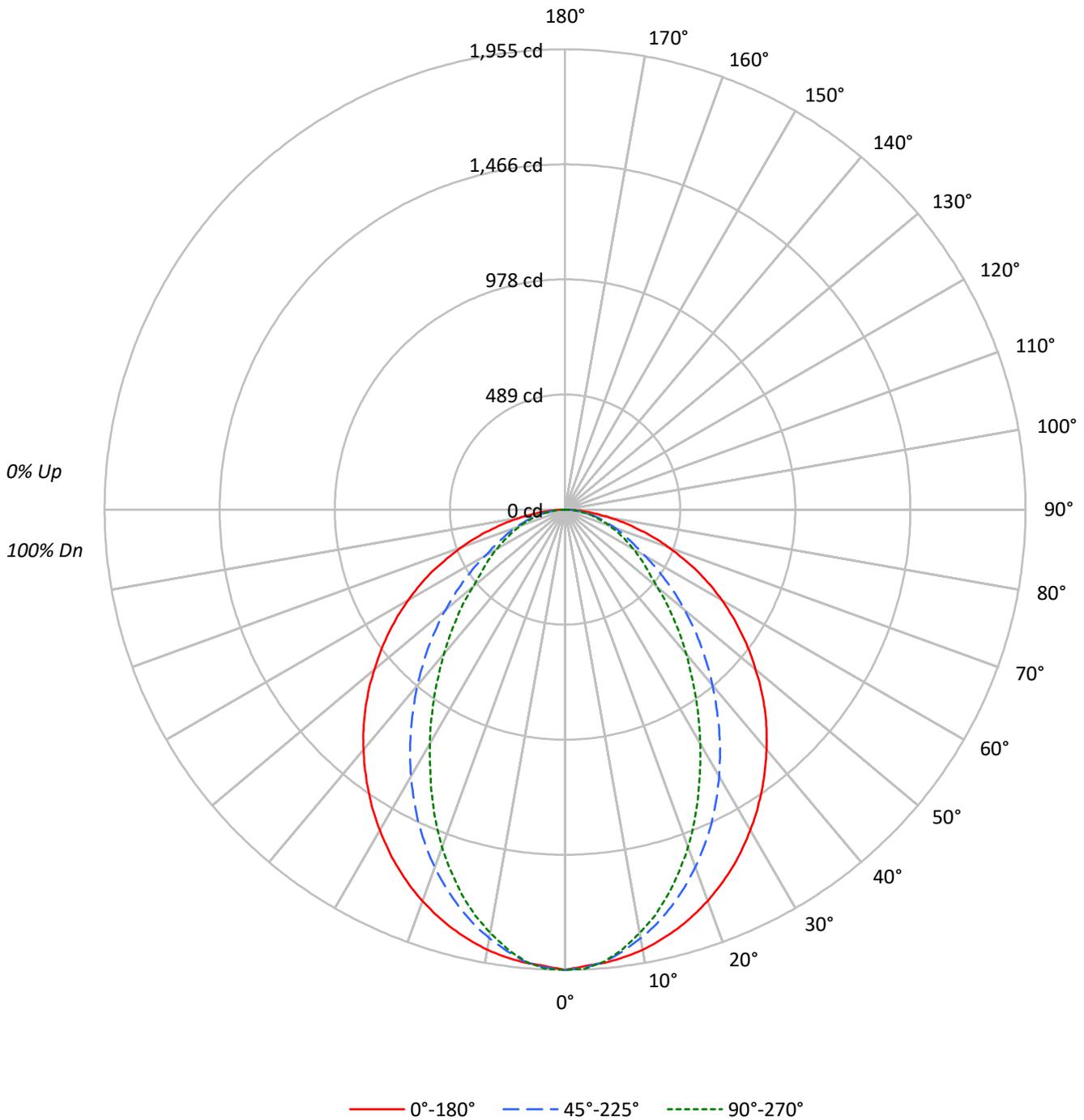
Lumens per Lamp: N/A
Luminaire Lumens: 3894.5 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.95 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73				73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63				63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55				55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32				32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17288	17288	17288
5°	17149	17111	17098
10°	17051	16598	16392
15°	16870	15974	15487
20°	16651	15216	14363
25°	16380	14344	13054
30°	16055	13353	11721
35°	15715	12315	10436
40°	15361	11243	9233
45°	14986	10200	8114
50°	14526	9103	7005
55°	14083	8006	6365
60°	13586	6870	5903
65°	12973	6230	5508
70°	12051	5765	5206
75°	10911	5309	4916
80°	9521	4908	4613
85°	7294	4524	4230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14986 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	4.7
10°-20°	493.8	12.7
20°-30°	683.7	17.6
30°-40°	733.9	18.8
40°-50°	667.4	17.1
50°-60°	525.5	13.5
60°-70°	359.7	9.2
70°-80°	193.6	5.0
80°-90°	54.8	1.4
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°	1359.6	34.9
0°-40°	2093.4	53.8
0°-60°	3286.3	84.4
0°-90°	3894.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3894.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1955	1955	1955	1955	1955	
5°	1932	1954	1928	1918	1926	183
15°	1843	1823	1745	1698	1692	520
25°	1679	1610	1470	1364	1338	773
35°	1456	1342	1141	1003	967	911
45°	1198	1046	816	675	649	924
55°	914	740	519	419	413	817
65°	620	443	298	265	263	612
75°	319	194	155	142	144	341
85°	72	49	45	42	42	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1955.3	1955.3	1955.3	1955.3	1955.3
2.5°	1940.9	1963.9	1946.7	1949.5	1952.4
5°	1932.3	1953.9	1928.0	1917.9	1926.5
7.5°	1917.9	1932.3	1892.0	1873.3	1881.9
10°	1899.2	1902.1	1848.8	1821.5	1825.8
12.5°	1873.3	1866.1	1801.4	1762.5	1765.4
15°	1843.1	1822.9	1745.2	1697.8	1692.0
17.5°	1808.5	1775.5	1683.4	1622.9	1611.4
20°	1769.7	1725.1	1617.2	1539.5	1526.5
22.5°	1726.5	1669.0	1545.3	1453.2	1434.5
25°	1679.1	1610.0	1470.4	1364.0	1338.1
27.5°	1627.3	1546.7	1389.9	1273.3	1240.2
30°	1572.6	1480.5	1307.9	1182.7	1148.1
32.5°	1516.5	1412.9	1224.4	1092.0	1056.1
35°	1456.0	1342.4	1141.0	1002.8	966.9
37.5°	1394.2	1269.0	1056.1	916.5	879.1
40°	1330.9	1195.6	974.1	830.2	800.0
42.5°	1266.1	1120.8	893.5	749.6	722.3
45°	1198.5	1046.0	815.8	674.8	648.9
47.5°	1129.4	969.7	736.7	604.3	579.8
50°	1056.1	893.5	661.8	535.2	509.3
52.5°	985.6	815.8	589.9	467.6	454.7
55°	913.6	739.5	519.4	418.7	412.9
57.5°	841.7	663.3	454.7	379.8	374.1
60°	768.3	588.5	388.5	339.6	333.8
62.5°	694.9	515.1	339.6	300.7	297.8
65°	620.1	443.1	297.8	264.7	263.3
67.5°	541.0	374.1	260.4	233.1	231.6
70°	466.2	305.0	223.0	201.4	201.4
72.5°	395.7	241.7	188.5	171.2	171.2
75°	319.4	194.2	155.4	142.4	143.9
77.5°	251.8	152.5	125.2	116.5	116.5
80°	187.0	113.7	96.4	89.2	90.6
82.5°	126.6	79.1	69.1	64.7	64.7
85°	71.9	48.9	44.6	41.7	41.7
87.5°	25.9	23.0	21.6	18.7	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)