

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: P1055997

Luminaire Tested: S124R3DR-S1195D930-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055997
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-S1195D930-X4F0-XX-UDD-FLL-W
Description: DEFINE 4, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

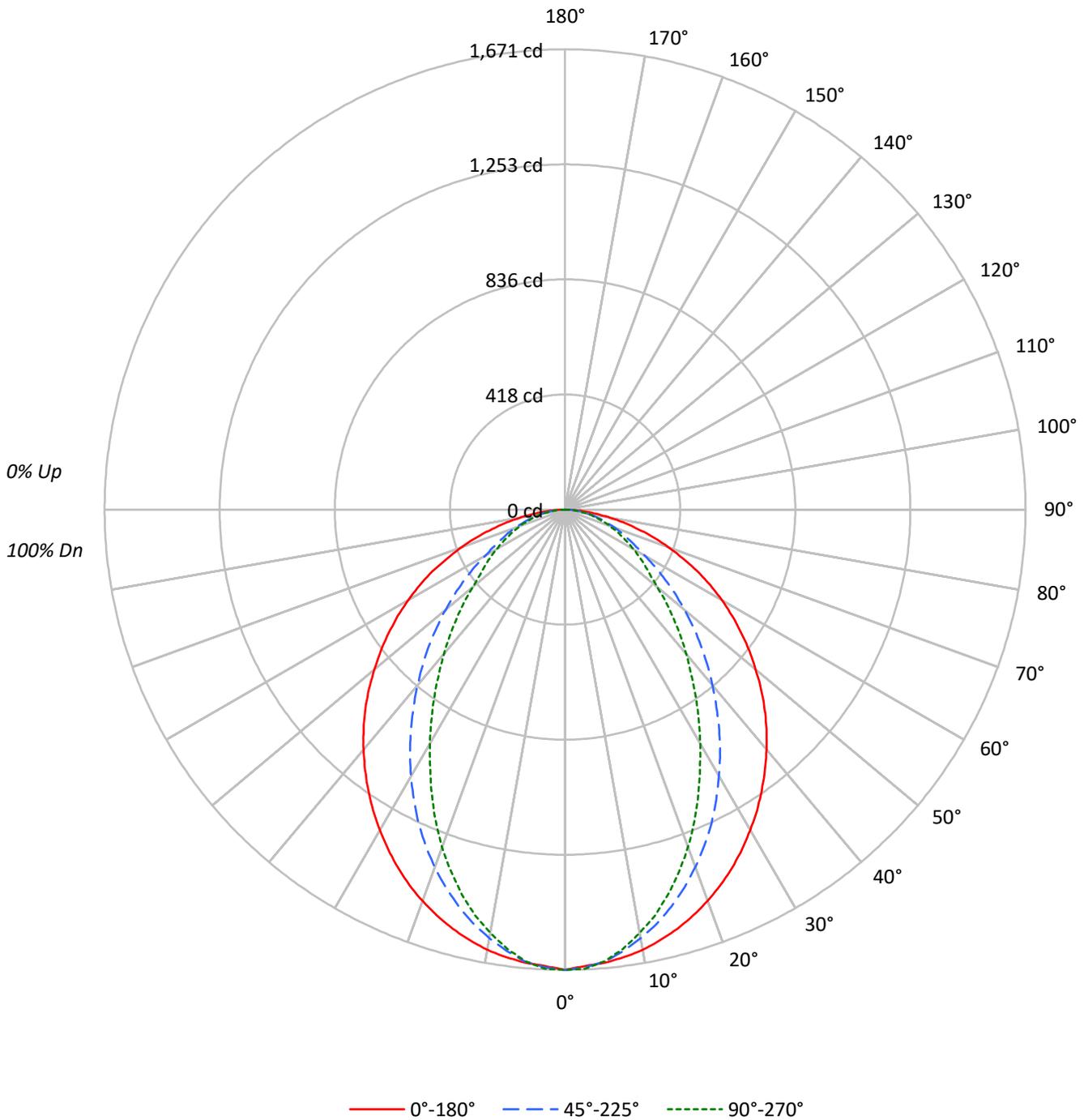
Lumens per Lamp: N/A
Luminaire Lumens: 3328.2 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.95 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 3.9' x H: 0')
CIE Type: Direct

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°	14774	14774	14774
5°	14656	14624	14612
10°	14572	14185	14009
15°	14417	13652	13236
20°	14230	13004	12275
25°	13998	12259	11155
30°	13720	11411	10017
35°	13431	10525	8919
40°	13127	9607	7891
45°	12807	8718	6933
50°	12414	7780	5987
55°	12036	6842	5440
60°	11610	5871	5045
65°	11088	5324	4707
70°	10299	4927	4449
75°	9326	4537	4202
80°	8136	4195	3946
85°	6239	3865	3622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12807 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	4.7
10°-20°	422.0	12.7
20°-30°	584.3	17.6
30°-40°	627.2	18.8
40°-50°	570.3	17.1
50°-60°	449.1	13.5
60°-70°	307.4	9.2
70°-80°	165.5	5.0
80°-90°	46.8	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°	1161.9	34.9
0°-40°	1789.0	53.8
0°-60°	2808.5	84.4
0°-90°	3328.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3328.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1671	1671	1671	1671	1671	
5°	1651	1670	1648	1639	1646	157
15°	1575	1558	1492	1451	1446	444
25°	1435	1376	1257	1166	1144	661
35°	1244	1147	975	857	826	778
45°	1024	894	697	577	554	790
55°	781	632	444	358	353	698
65°	530	379	254	226	225	523
75°	273	166	133	122	123	291
85°	62	42	38	36	36	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1671.0	1671.0	1671.0	1671.0	1671.0
2.5°	1658.7	1678.4	1663.6	1666.1	1668.6
5°	1651.3	1669.8	1647.7	1639.1	1646.4
7.5°	1639.1	1651.3	1616.9	1600.9	1608.3
10°	1623.1	1625.5	1580.0	1556.7	1560.4
12.5°	1600.9	1594.8	1539.5	1506.3	1508.7
15°	1575.1	1557.9	1491.5	1450.9	1446.0
17.5°	1545.6	1517.3	1438.6	1387.0	1377.1
20°	1512.4	1474.3	1382.1	1315.7	1304.6
22.5°	1475.5	1426.3	1320.6	1241.9	1225.9
25°	1434.9	1375.9	1256.6	1165.7	1143.5
27.5°	1390.7	1321.8	1187.8	1088.2	1059.9
30°	1343.9	1265.3	1117.7	1010.7	981.2
32.5°	1296.0	1207.5	1046.4	933.3	902.5
35°	1244.4	1147.2	975.1	857.0	826.3
37.5°	1191.5	1084.5	902.5	783.3	751.3
40°	1137.4	1021.8	832.4	709.5	683.7
42.5°	1082.0	957.9	763.6	640.6	617.3
45°	1024.3	893.9	697.2	576.7	554.5
47.5°	965.2	828.7	629.6	516.4	495.5
50°	902.5	763.6	565.6	457.4	435.3
52.5°	842.3	697.2	504.1	399.6	388.6
55°	780.8	632.0	443.9	357.8	352.9
57.5°	719.3	566.8	388.6	324.6	319.7
60°	656.6	502.9	332.0	290.2	285.3
62.5°	593.9	440.2	290.2	257.0	254.5
65°	530.0	378.7	254.5	226.2	225.0
67.5°	462.3	319.7	222.6	199.2	198.0
70°	398.4	260.7	190.6	172.1	172.1
72.5°	338.1	206.6	161.1	146.3	146.3
75°	273.0	166.0	132.8	121.7	123.0
77.5°	215.2	130.3	107.0	99.6	99.6
80°	159.8	97.1	82.4	76.2	77.5
82.5°	108.2	67.6	59.0	55.3	55.3
85°	61.5	41.8	38.1	35.7	35.7
87.5°	22.1	19.7	18.4	16.0	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)