

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: P1055996

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-9)
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-S
Description: DEFINE 4, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

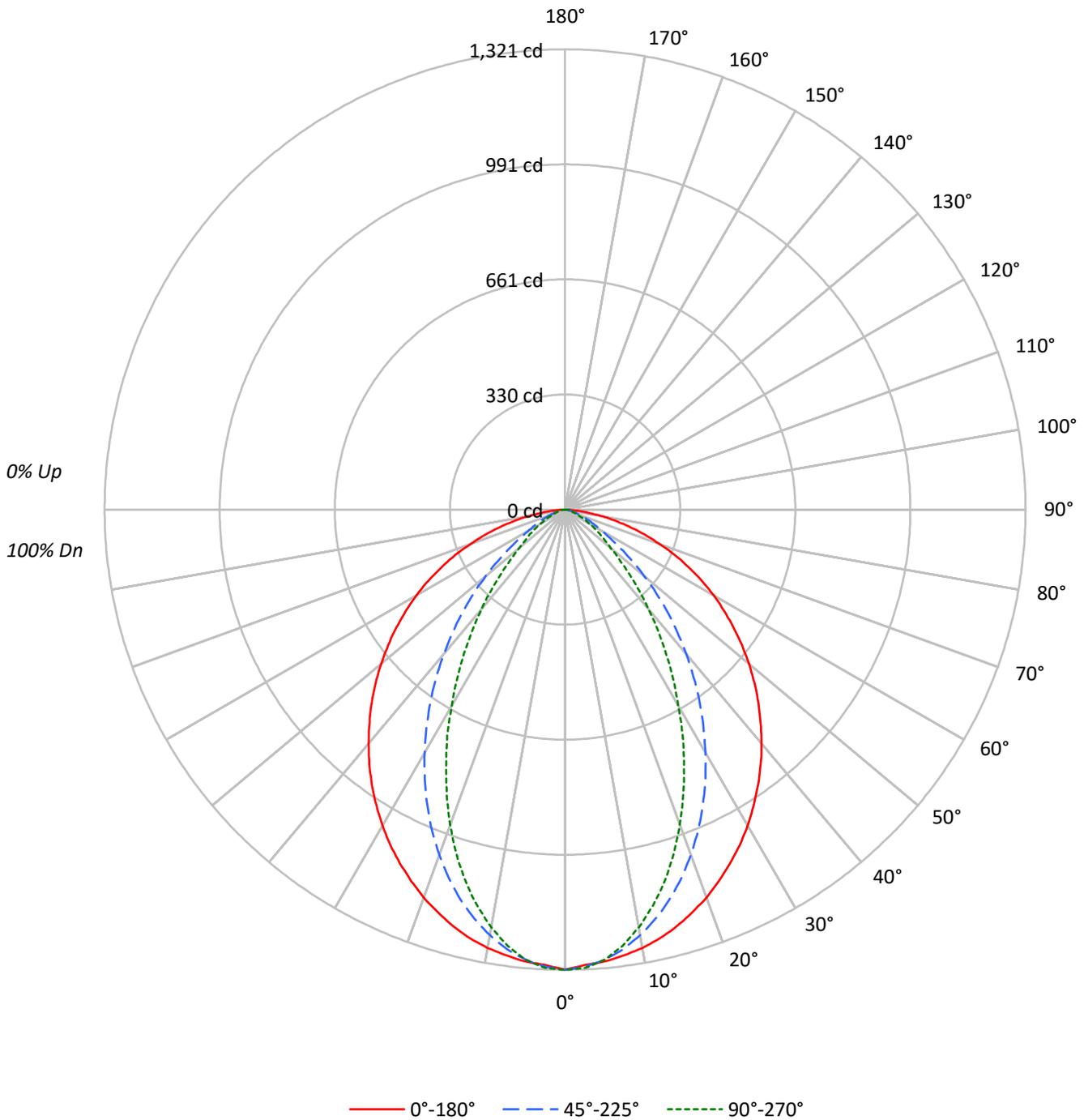
Lumens per Lamp: N/A
Luminaire Lumens: 2135.3 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.87 / 1.03
Luminous Opening: Rectangular (W 0.31' x L: 3.9' x H: 0')
CIE Type: Direct

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89	
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78			78	
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68	
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60			60	
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54			54	
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48			48	
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44	
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40			40	
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37			37	
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34			34	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11676	11676	11676
5°	11556	11513	11513
10°	11469	11139	10929
15°	11334	10602	10107
20°	11152	9926	9059
25°	10928	9128	7869
30°	10695	8222	6628
35°	10418	7260	5455
40°	10119	6230	4300
45°	9809	5181	3213
50°	9472	4076	2351
55°	9098	3014	1876
60°	8696	2087	1436
65°	8180	1621	1054
70°	7406	1145	827
75°	6470	799	629
80°	5198	626	565
85°	2871	497	497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9809 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	5.7
10°-20°	327.3	15.3
20°-30°	436.5	20.4
30°-40°	439.5	20.6
40°-50°	360.4	16.9
50°-60°	246.4	11.5
60°-70°	137.7	6.4
70°-80°	54.6	2.6
80°-90°	10.4	0.5
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°	886.3	41.5
0°-40°	1325.9	62.1
0°-60°	1932.7	90.5
0°-90°	2135.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1302	1317	1297	1291	1297	124
15°	1238	1225	1158	1118	1104	349
25°	1120	1065	936	841	807	516
35°	965	863	673	545	505	604
45°	784	641	414	291	257	605
55°	590	414	196	130	122	528
65°	391	197	78	55	50	386
75°	189	52	23	20	18	203
85°	28	5	5	5	5	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.6	1320.6	1320.6	1320.6	1320.6
2.5°	1308.3	1324.3	1313.2	1314.4	1316.9
5°	1302.1	1316.9	1297.2	1291.1	1297.2
7.5°	1291.1	1302.1	1272.6	1260.3	1262.8
10°	1277.5	1281.2	1240.7	1219.8	1217.3
12.5°	1260.3	1255.4	1202.5	1171.8	1164.4
15°	1238.2	1224.7	1158.3	1117.7	1104.2
17.5°	1212.4	1189.0	1109.1	1056.2	1036.5
20°	1185.3	1150.9	1055.0	987.4	962.8
22.5°	1153.4	1110.3	997.2	914.8	886.5
25°	1120.2	1064.8	935.7	841.0	806.6
27.5°	1085.7	1018.1	871.8	766.0	731.6
30°	1047.6	967.7	805.4	691.0	649.2
32.5°	1007.0	916.0	739.0	617.3	577.9
35°	965.2	863.2	672.6	544.7	505.4
37.5°	922.2	809.1	606.2	475.9	436.5
40°	876.7	753.7	539.8	410.7	372.6
42.5°	830.0	697.2	475.9	349.2	313.5
45°	784.5	640.6	414.4	291.4	257.0
47.5°	736.5	584.1	354.1	237.3	207.8
50°	688.6	527.5	296.3	190.6	170.9
52.5°	639.4	470.9	243.5	156.2	142.6
55°	590.2	414.4	195.5	130.3	121.7
57.5°	541.0	357.8	151.2	110.7	100.8
60°	491.8	302.5	118.0	89.8	81.2
62.5°	441.4	247.1	97.1	71.3	63.9
65°	391.0	196.7	77.5	55.3	50.4
67.5°	340.6	150.0	59.0	43.0	39.3
70°	286.5	107.0	44.3	33.2	32.0
72.5°	239.8	72.5	32.0	25.8	24.6
75°	189.4	51.6	23.4	19.7	18.4
77.5°	146.3	33.2	17.2	16.0	14.8
80°	102.1	18.4	12.3	11.1	11.1
82.5°	62.7	9.8	8.6	7.4	7.4
85°	28.3	4.9	4.9	4.9	4.9
87.5°	4.9	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)