

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: P1056074

Luminaire Tested: S124R3DR-S795D927-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056074  
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-S795D927-X4F0-XX-UDD-FLL-S  
Description: DEFINE 4, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

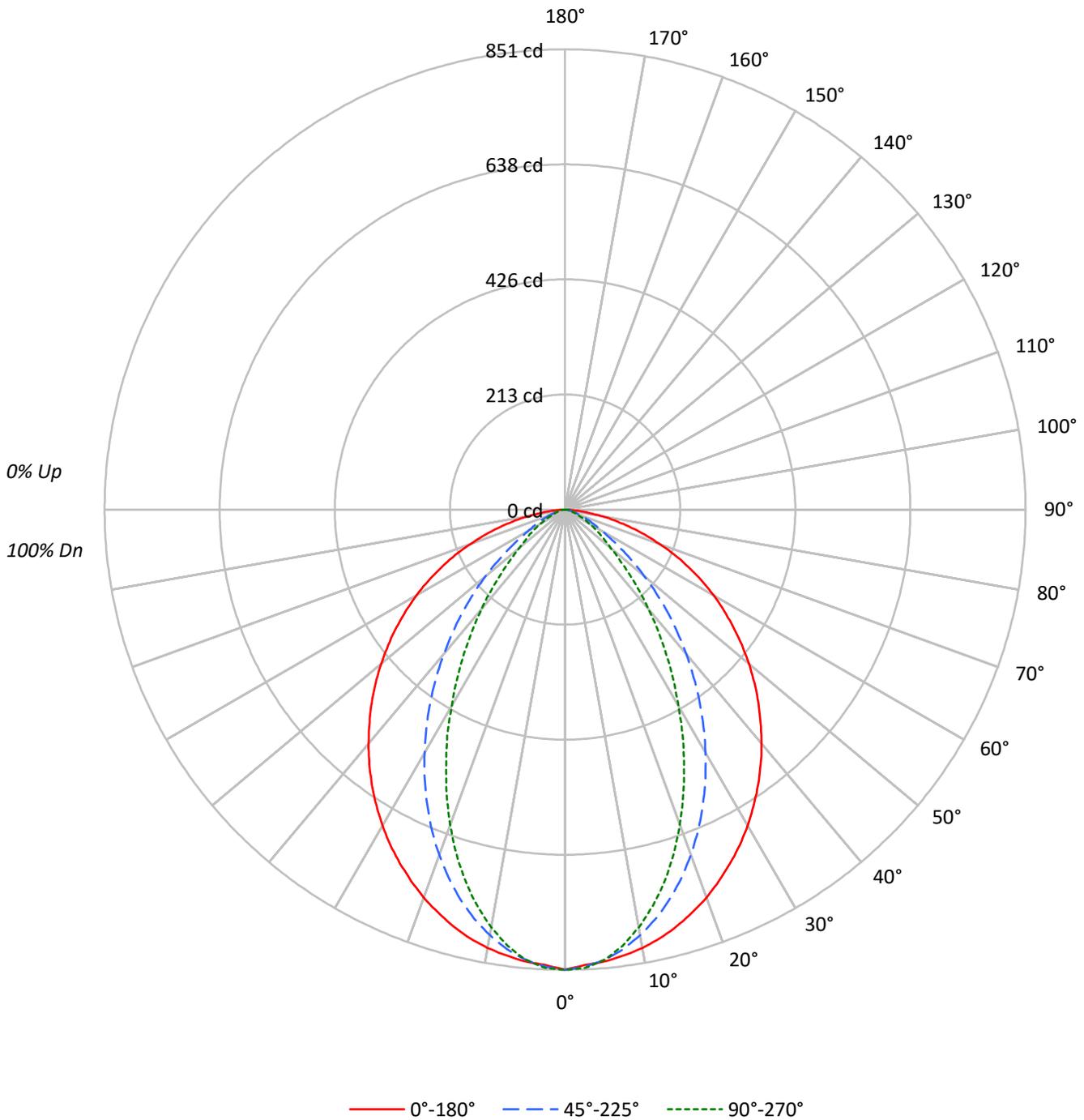
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1375.7 lumens  
Efficiency: N/A  
Efficacy: 52.1 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): 26.4  
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

TEST NUMBER: P1056074

CATALOG NUMBER: S124R3DR-S795D927-X4F0-XX-UDD-FLL-S

### Luminous Intensity Polar Plot



TEST NUMBER: P1056074

CATALOG NUMBER: S124R3DR-S795D927-X4F0-XX-UDD-FLL-S

**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°	7522	7522	7522
5°	7445	7418	7418
10°	7390	7176	7041
15°	7302	6830	6512
20°	7185	6395	5836
25°	7040	5881	5070
30°	6890	5298	4270
35°	6712	4677	3514
40°	6519	4014	2770
45°	6319	3338	2071
50°	6102	2626	1514
55°	5861	1942	1208
60°	5604	1344	925
65°	5270	1044	680
70°	4772	737	533
75°	4168	516	407
80°	3350	402	361
85°	1846	325	325

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6319 cd/sqm



TEST NUMBER: P1056074

CATALOG NUMBER: S124R3DR-S795D927-X4F0-XX-UDD-FLL-S

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.9	5.7
10°-20°	210.9	15.3
20°-30°	281.2	20.4
30°-40°	283.2	20.6
40°-50°	232.2	16.9
50°-60°	158.7	11.5
60°-70°	88.7	6.4
70°-80°	35.2	2.6
80°-90°	6.7	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°	571.0	41.5
0°-40°	854.2	62.1
0°-60°	1245.2	90.5
0°-90°	1375.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1375.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	839	848	836	832	836	80
15°	798	789	746	720	711	225
25°	722	686	603	542	520	332
35°	622	556	433	351	326	389
45°	505	413	267	188	166	390
55°	380	267	126	84	78	340
65°	252	127	50	36	32	249
75°	122	33	15	13	12	131
85°	18	3	3	3	3	26
90°	0	0	0	0	0	



TEST NUMBER: P1056074

CATALOG NUMBER: S124R3DR-S795D927-X4F0-XX-UDD-FLL-S

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	850.8	850.8	850.8	850.8	850.8
2.5°	842.9	853.2	846.0	846.8	848.4
5°	838.9	848.4	835.8	831.8	835.8
7.5°	831.8	838.9	819.9	812.0	813.6
10°	823.1	825.5	799.3	785.8	784.3
12.5°	812.0	808.8	774.8	754.9	750.2
15°	797.7	789.0	746.2	720.1	711.4
17.5°	781.1	766.0	714.5	680.5	667.8
20°	763.7	741.5	679.7	636.1	620.3
22.5°	743.1	715.3	642.5	589.4	571.2
25°	721.7	686.0	602.8	541.9	519.7
27.5°	699.5	655.9	561.7	493.5	471.3
30°	674.9	623.4	518.9	445.2	418.3
32.5°	648.8	590.2	476.1	397.7	372.3
35°	621.9	556.1	433.3	350.9	325.6
37.5°	594.1	521.3	390.5	306.6	281.2
40°	564.8	485.6	347.8	264.6	240.0
42.5°	534.7	449.2	306.6	225.0	202.0
45°	505.4	412.7	267.0	187.7	165.6
47.5°	474.5	376.3	228.1	152.9	133.9
50°	443.6	339.8	190.9	122.8	110.1
52.5°	411.9	303.4	156.9	100.6	91.9
55°	380.2	267.0	126.0	84.0	78.4
57.5°	348.6	230.5	97.4	71.3	65.0
60°	316.9	194.9	76.0	57.8	52.3
62.5°	284.4	159.2	62.6	45.9	41.2
65°	251.9	126.7	49.9	35.6	32.5
67.5°	219.4	96.6	38.0	27.7	25.3
70°	184.6	68.9	28.5	21.4	20.6
72.5°	154.5	46.7	20.6	16.6	15.8
75°	122.0	33.3	15.1	12.7	11.9
77.5°	94.3	21.4	11.1	10.3	9.5
80°	65.8	11.9	7.9	7.1	7.1
82.5°	40.4	6.3	5.5	4.8	4.8
85°	18.2	3.2	3.2	3.2	3.2
87.5°	3.2	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)