

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: P1056077

Luminaire Tested: S124R3DR-S795D930-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056077
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-S795D930-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

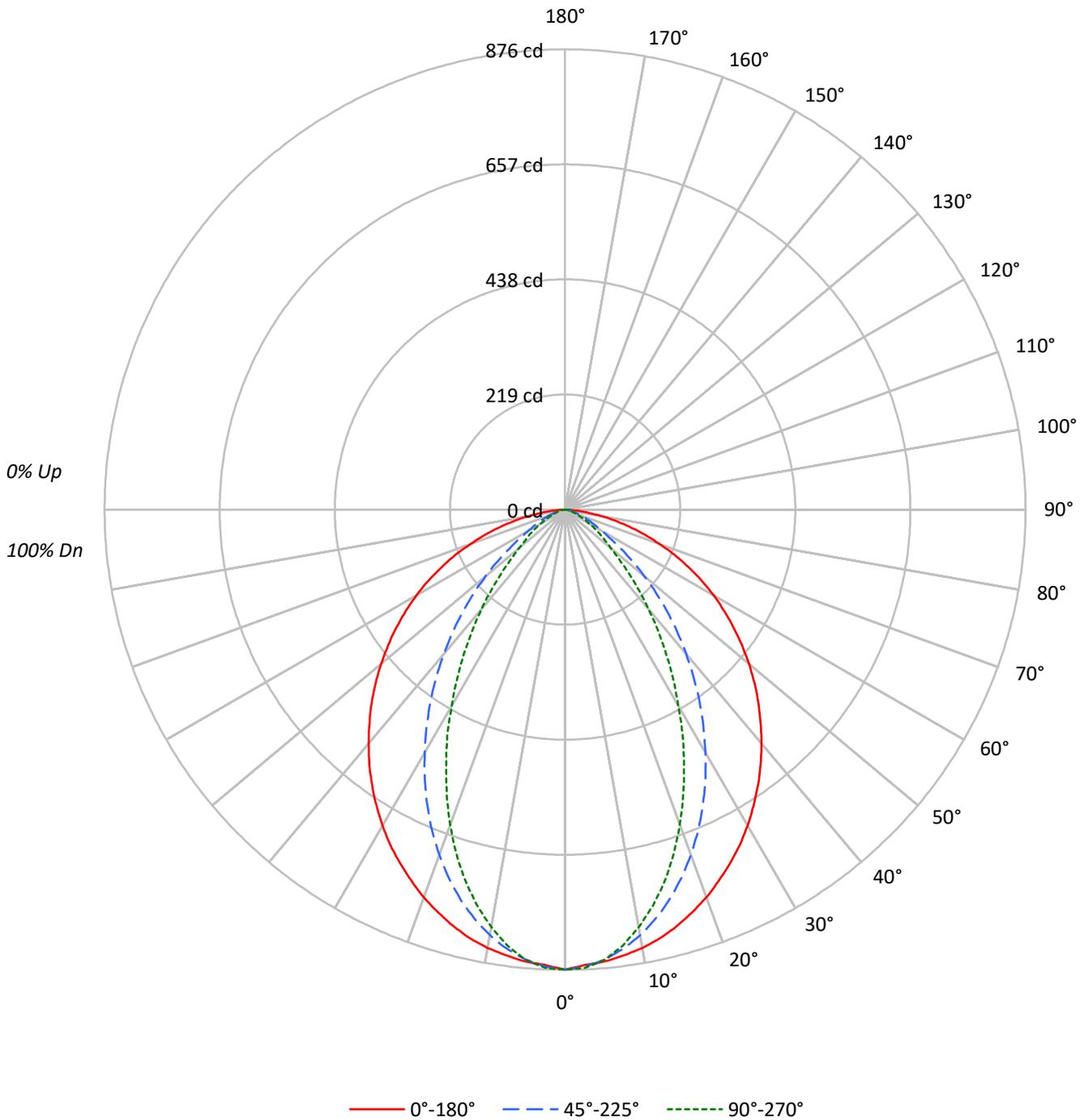
Lumens per Lamp: N/A
Luminaire Lumens: 1415.9 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.87 / 1.03
Luminous Opening: Rectangular (W 0.31' x L: 3.9' x H: 0')
CIE Type: Direct

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

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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7742	7742	7742
5°	7663	7634	7634
10°	7605	7385	7246
15°	7515	7030	6701
20°	7394	6581	6007
25°	7245	6052	5217
30°	7091	5452	4395
35°	6908	4814	3617
40°	6709	4131	2851
45°	6504	3436	2131
50°	6280	2703	1558
55°	6032	1998	1244
60°	5766	1385	951
65°	5425	1075	699
70°	4912	760	548
75°	4291	529	417
80°	3447	418	372
85°	1907	335	335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6504 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	5.7
10°-20°	217.0	15.3
20°-30°	289.4	20.4
30°-40°	291.4	20.6
40°-50°	239.0	16.9
50°-60°	163.4	11.5
60°-70°	91.3	6.4
70°-80°	36.2	2.6
80°-90°	6.9	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°	587.7	41.5
0°-40°	879.1	62.1
0°-60°	1281.5	90.5
0°-90°	1415.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	863	873	860	856	860	82
15°	821	812	768	741	732	231
25°	743	706	620	558	535	342
35°	640	572	446	361	335	400
45°	520	425	275	193	170	401
55°	391	275	130	86	81	350
65°	259	130	51	37	33	256
75°	126	34	16	13	12	135
85°	19	3	3	3	3	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.6	875.6	875.6	875.6	875.6
2.5°	867.5	878.1	870.7	871.6	873.2
5°	863.4	873.2	860.1	856.1	860.1
7.5°	856.1	863.4	843.8	835.7	837.3
10°	847.1	849.5	822.6	808.8	807.1
12.5°	835.7	832.4	797.4	777.0	772.1
15°	821.0	812.0	768.0	741.1	732.1
17.5°	803.9	788.4	735.4	700.3	687.3
20°	785.9	763.1	699.5	654.7	638.4
22.5°	764.7	736.2	661.2	606.6	587.8
25°	742.7	706.0	620.4	557.7	534.8
27.5°	719.9	675.1	578.0	507.9	485.1
30°	694.6	641.6	534.0	458.2	430.5
32.5°	667.7	607.4	490.0	409.3	383.2
35°	640.0	572.3	446.0	361.2	335.1
37.5°	611.5	536.5	401.9	315.5	289.4
40°	581.3	499.8	357.9	272.3	247.0
42.5°	550.3	462.3	315.5	231.5	207.9
45°	520.2	424.8	274.8	193.2	170.4
47.5°	488.4	387.3	234.8	157.4	137.8
50°	456.6	349.8	196.5	126.4	113.3
52.5°	424.0	312.3	161.4	103.5	94.6
55°	391.3	274.8	129.6	86.4	80.7
57.5°	358.7	237.3	100.3	73.4	66.9
60°	326.1	200.6	78.3	59.5	53.8
62.5°	292.7	163.9	64.4	47.3	42.4
65°	259.3	130.4	51.4	36.7	33.4
67.5°	225.8	99.5	39.1	28.5	26.1
70°	190.0	70.9	29.4	22.0	21.2
72.5°	159.0	48.1	21.2	17.1	16.3
75°	125.6	34.2	15.5	13.0	12.2
77.5°	97.0	22.0	11.4	10.6	9.8
80°	67.7	12.2	8.2	7.3	7.3
82.5°	41.6	6.5	5.7	4.9	4.9
85°	18.8	3.3	3.3	3.3	3.3
87.5°	3.3	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)