

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: P1056080

Luminaire Tested: S124R3DR-S795D935-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056080
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-S795D935-X4F0-XX-UDD-FLL-S
Description: DEFINE 4, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

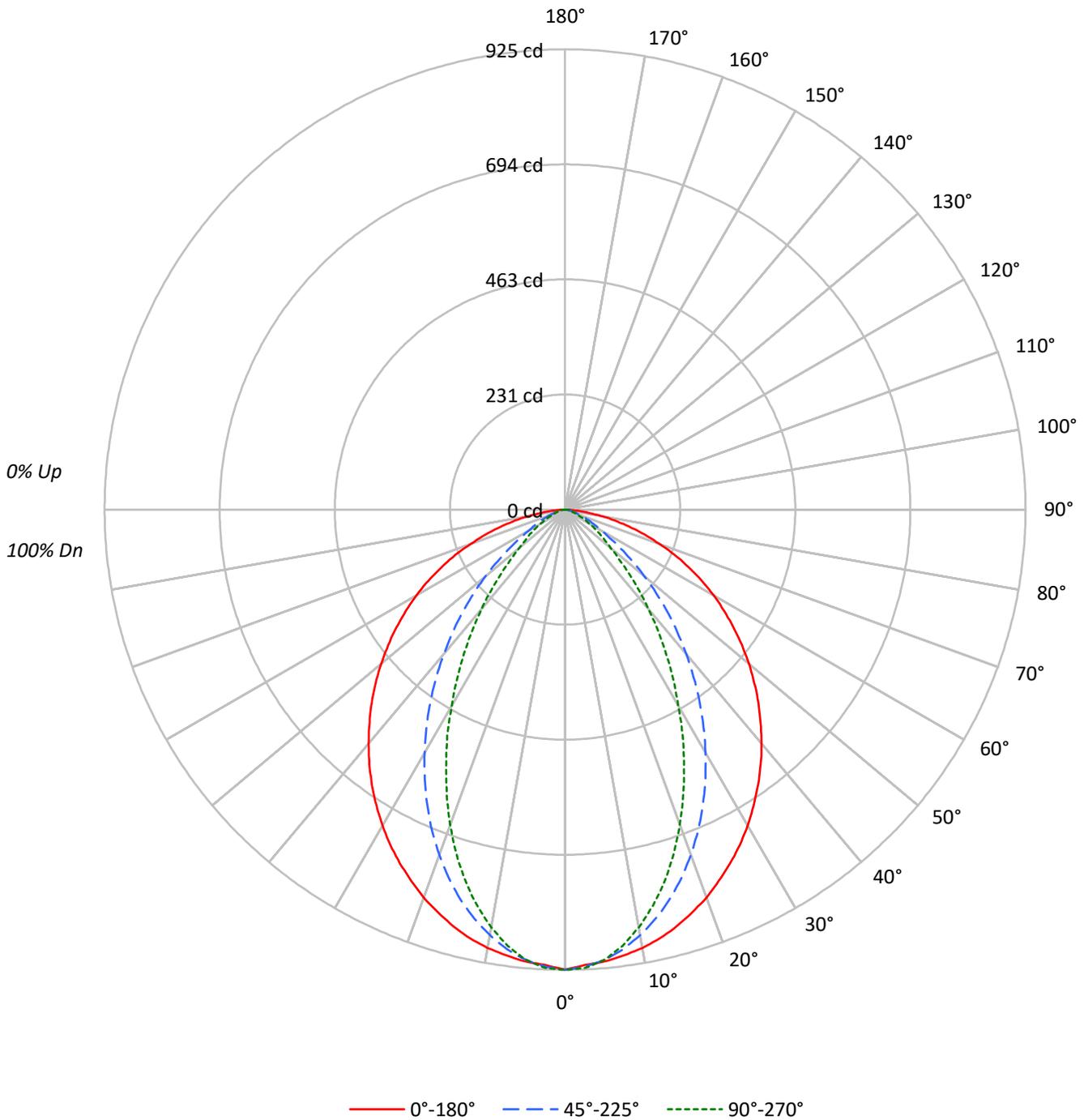
Lumens per Lamp: N/A
Luminaire Lumens: 1495.2 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.87 / 1.03
Luminous Opening: Rectangular (W 0.31' x L: 3.9' x H: 0')
CIE Type: Direct

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	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°	8176	8176	8176
5°	8092	8062	8062
10°	8032	7799	7653
15°	7936	7424	7077
20°	7809	6950	6343
25°	7652	6392	5510
30°	7489	5758	4641
35°	7295	5084	3820
40°	7085	4363	3011
45°	6868	3629	2249
50°	6633	2854	1646
55°	6371	2110	1313
60°	6090	1462	1004
65°	5728	1134	738
70°	5186	801	579
75°	4530	560	441
80°	3640	438	392
85°	2009	345	345

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6868 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	5.7
10°-20°	229.2	15.3
20°-30°	305.7	20.4
30°-40°	307.8	20.6
40°-50°	252.4	16.9
50°-60°	172.5	11.5
60°-70°	96.4	6.4
70°-80°	38.2	2.6
80°-90°	7.2	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°	620.6	41.5
0°-40°	928.4	62.1
0°-60°	1353.4	90.5
0°-90°	1495.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1495.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	912	922	908	904	908	86
15°	867	858	811	783	773	244
25°	784	746	655	589	565	361
35°	676	604	471	381	354	423
45°	549	449	290	204	180	423
55°	413	290	137	91	85	370
65°	274	138	54	39	35	271
75°	133	36	16	14	13	142
85°	20	3	3	3	3	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.7	924.7	924.7	924.7	924.7
2.5°	916.1	927.3	919.5	920.4	922.1
5°	911.8	922.1	908.4	904.0	908.4
7.5°	904.0	911.8	891.1	882.5	884.2
10°	894.6	897.2	868.7	854.1	852.4
12.5°	882.5	879.1	842.1	820.5	815.4
15°	867.0	857.6	811.1	782.6	773.2
17.5°	848.9	832.6	776.6	739.6	725.8
20°	830.0	805.9	738.7	691.4	674.2
22.5°	807.6	777.5	698.3	640.6	620.8
25°	784.4	745.6	655.2	588.9	564.8
27.5°	760.3	712.9	610.4	536.4	512.3
30°	733.6	677.6	564.0	483.9	454.6
32.5°	705.2	641.4	517.5	432.2	404.7
35°	675.9	604.4	471.0	381.4	353.9
37.5°	645.7	566.5	424.5	333.2	305.7
40°	613.9	527.8	378.0	287.6	260.9
42.5°	581.2	488.2	333.2	244.5	219.6
45°	549.3	448.6	290.2	204.1	179.9
47.5°	515.7	409.0	248.0	166.2	145.5
50°	482.2	369.4	207.5	133.5	119.7
52.5°	447.7	329.8	170.5	109.3	99.9
55°	413.3	290.2	136.9	91.3	85.2
57.5°	378.8	250.6	105.9	77.5	70.6
60°	344.4	211.8	82.7	62.9	56.8
62.5°	309.1	173.1	68.0	49.9	44.8
65°	273.8	137.8	54.2	38.7	35.3
67.5°	238.5	105.0	41.3	30.1	27.6
70°	200.6	74.9	31.0	23.2	22.4
72.5°	167.9	50.8	22.4	18.1	17.2
75°	132.6	36.2	16.4	13.8	12.9
77.5°	102.5	23.2	12.1	11.2	10.3
80°	71.5	12.9	8.6	7.7	7.7
82.5°	43.9	6.9	6.0	5.2	5.2
85°	19.8	3.4	3.4	3.4	3.4
87.5°	3.4	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)