

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: P1056053

Luminaire Tested: S124R3DR-S575D935-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056053
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-S575D935-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

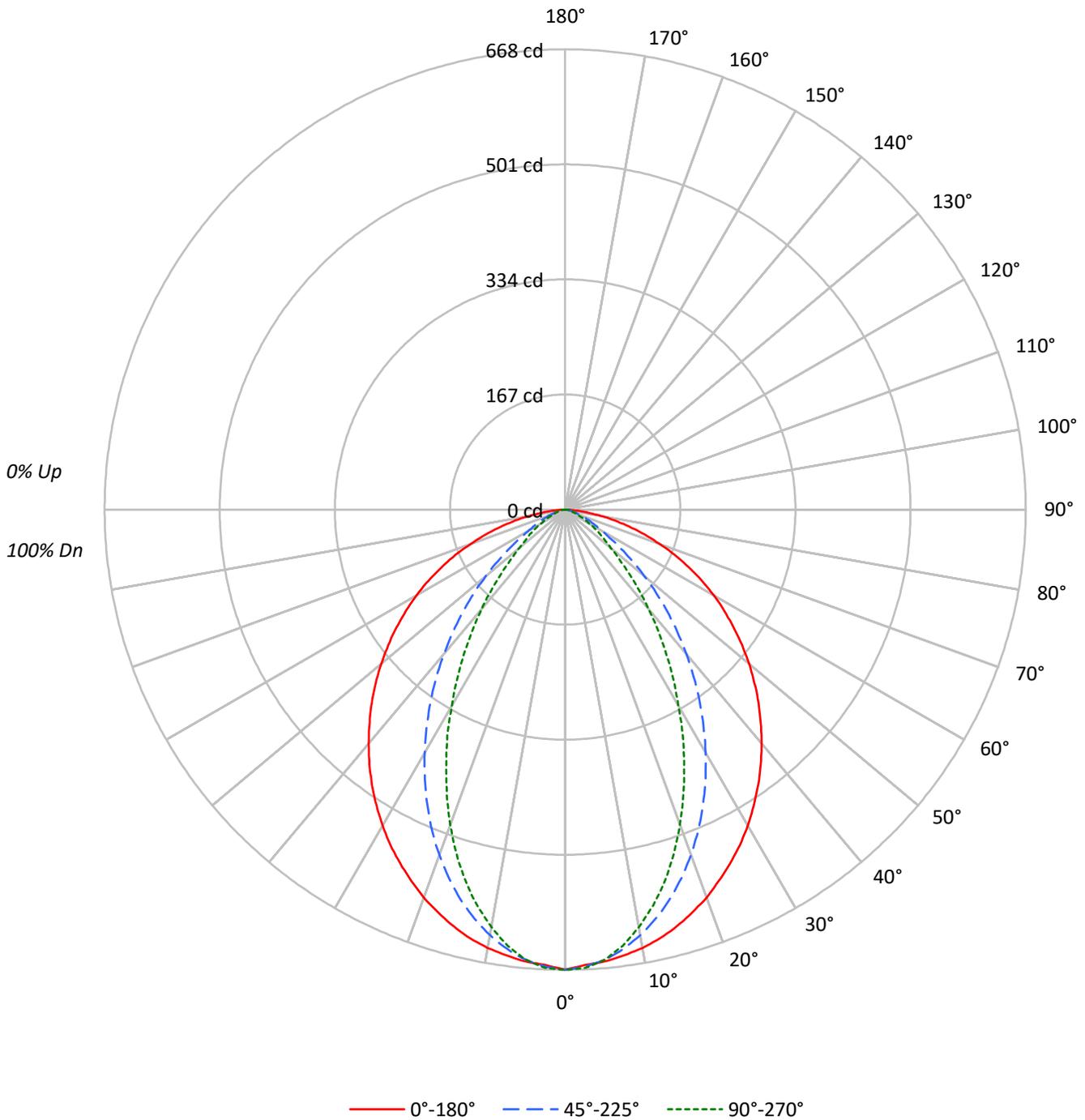
Lumens per Lamp: N/A
Luminaire Lumens: 1079.8 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.87 / 1.03
Luminous Opening: Rectangular (W 0.31' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
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°	5904	5904	5904
5°	5843	5822	5822
10°	5800	5633	5526
15°	5731	5361	5110
20°	5640	5020	4580
25°	5525	4616	3979
30°	5408	4158	3352
35°	5268	3671	2758
40°	5116	3151	2174
45°	4960	2620	1624
50°	4789	2060	1188
55°	4600	1524	950
60°	4398	1056	725
65°	4136	820	533
70°	3746	579	419
75°	3273	403	318
80°	2627	316	285
85°	1451	254	254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4960 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	5.7
10°-20°	165.5	15.3
20°-30°	220.7	20.4
30°-40°	222.3	20.6
40°-50°	182.3	16.9
50°-60°	124.6	11.5
60°-70°	69.6	6.4
70°-80°	27.6	2.6
80°-90°	5.2	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°	448.2	41.5
0°-40°	670.4	62.1
0°-60°	977.3	90.5
0°-90°	1079.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	658	666	656	653	656	62
15°	626	619	586	565	558	176
25°	566	538	473	425	408	261
35°	488	436	340	275	256	305
45°	397	324	210	147	130	306
55°	298	210	99	66	62	267
65°	198	100	39	28	26	195
75°	96	26	12	10	9	103
85°	14	2	2	2	2	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	667.8	667.8	667.8	667.8	667.8
2.5°	661.6	669.6	664.0	664.7	665.9
5°	658.4	665.9	656.0	652.9	656.0
7.5°	652.9	658.4	643.5	637.3	638.6
10°	646.0	647.9	627.4	616.8	615.5
12.5°	637.3	634.8	608.1	592.5	588.8
15°	626.1	619.3	585.7	565.2	558.3
17.5°	613.1	601.2	560.8	534.1	524.1
20°	599.4	582.0	533.5	499.3	486.8
22.5°	583.2	561.5	504.3	462.6	448.3
25°	566.4	538.4	473.2	425.3	407.9
27.5°	549.0	514.8	440.8	387.4	369.9
30°	529.7	489.3	407.3	349.4	328.3
32.5°	509.2	463.2	373.7	312.1	292.2
35°	488.1	436.5	340.1	275.4	255.5
37.5°	466.3	409.1	306.5	240.6	220.7
40°	443.3	381.1	273.0	207.7	188.4
42.5°	419.7	352.5	240.6	176.6	158.5
45°	396.7	323.9	209.5	147.4	129.9
47.5°	372.4	295.3	179.1	120.0	105.1
50°	348.2	266.7	149.8	96.4	86.4
52.5°	323.3	238.1	123.1	79.0	72.1
55°	298.4	209.5	98.9	65.9	61.6
57.5°	273.6	180.9	76.5	56.0	51.0
60°	248.7	153.0	59.7	45.4	41.0
62.5°	223.2	125.0	49.1	36.1	32.3
65°	197.7	99.5	39.2	28.0	25.5
67.5°	172.2	75.9	29.8	21.8	19.9
70°	144.9	54.1	22.4	16.8	16.2
72.5°	121.2	36.7	16.2	13.1	12.4
75°	95.8	26.1	11.8	9.9	9.3
77.5°	74.0	16.8	8.7	8.1	7.5
80°	51.6	9.3	6.2	5.6	5.6
82.5°	31.7	5.0	4.4	3.7	3.7
85°	14.3	2.5	2.5	2.5	2.5
87.5°	2.5	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)