

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: P1056455

Luminaire Tested: S125R3DR-S610D930-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-12)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S610D930-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

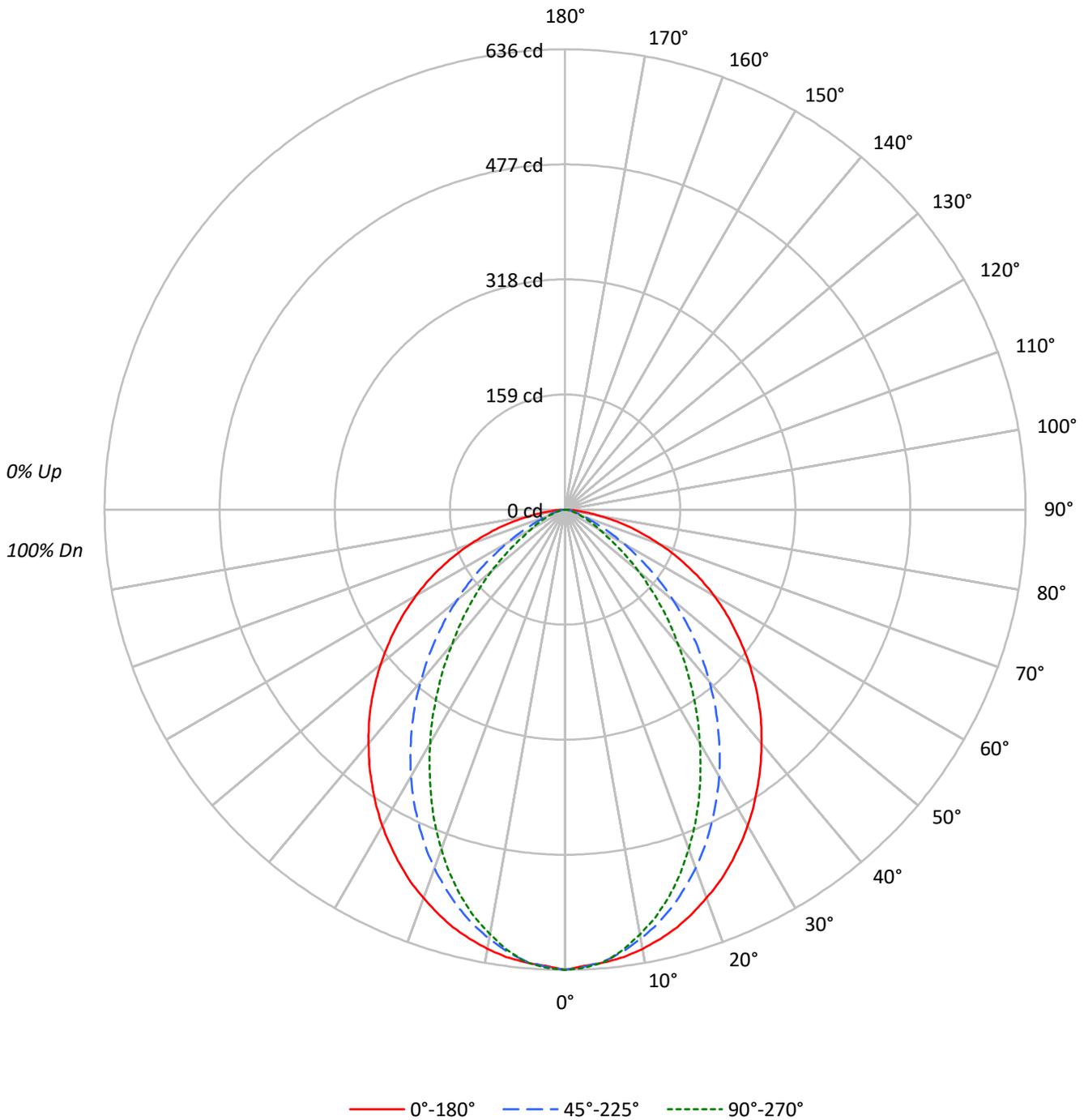
Lumens per Lamp: N/A
Luminaire Lumens: 1149.3 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4495	4495	4495
5°	4458	4445	4454
10°	4425	4324	4277
15°	4374	4167	4055
20°	4296	3968	3756
25°	4216	3734	3416
30°	4119	3475	3042
35°	4009	3181	2647
40°	3895	2858	2239
45°	3785	2519	1855
50°	3652	2143	1457
55°	3513	1742	1060
60°	3355	1298	758
65°	3151	856	590
70°	2848	595	413
75°	2477	385	322
80°	1942	289	265
85°	1006	235	195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3785 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	5.2
10°-20°	161.0	14.0
20°-30°	222.6	19.4
30°-40°	235.9	20.5
40°-50°	205.9	17.9
50°-60°	146.4	12.7
60°-70°	81.4	7.1
70°-80°	31.3	2.7
80°-90°	5.4	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°	442.9	38.5
0°-40°	678.8	59.1
0°-60°	1031.1	89.7
0°-90°	1149.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	636	636	636	636	636	
5°	628	633	626	625	628	60
15°	598	592	569	557	554	168
25°	540	522	479	449	438	249
35°	464	433	369	324	307	291
45°	379	333	252	201	186	292
55°	285	228	141	98	86	255
65°	188	124	51	38	35	186
75°	91	35	14	12	12	96
85°	12	4	3	2	2	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	635.9	635.9	635.9	635.9	635.9
2.5°	631.2	637.6	632.3	632.9	633.5
5°	628.2	632.9	626.4	624.7	627.6
7.5°	623.5	627.0	615.8	611.7	613.5
10°	616.4	617.6	602.3	596.4	595.8
12.5°	607.6	605.8	587.0	577.6	577.0
15°	597.6	592.3	569.3	557.0	554.0
17.5°	585.2	577.0	548.7	532.8	528.1
20°	571.1	559.9	527.5	506.9	499.3
22.5°	557.0	541.7	504.0	478.1	469.8
25°	540.5	522.2	478.7	449.2	438.0
27.5°	522.8	501.0	452.8	418.6	405.1
30°	504.6	479.3	425.7	387.4	372.7
32.5°	485.1	456.3	397.4	355.6	340.3
35°	464.5	432.7	368.6	323.8	306.7
37.5°	443.9	408.6	340.3	292.6	275.0
40°	422.1	383.9	309.7	260.8	242.6
42.5°	400.9	358.6	280.8	230.8	214.3
45°	378.6	333.2	252.0	201.4	185.5
47.5°	355.6	306.7	223.1	173.7	157.8
50°	332.1	280.8	194.9	146.6	132.5
52.5°	308.5	254.9	168.4	120.7	108.3
55°	285.0	228.4	141.3	97.7	86.0
57.5°	261.4	202.5	116.0	76.5	65.9
60°	237.3	176.0	91.8	56.5	53.6
62.5°	213.1	150.1	71.2	46.5	44.2
65°	188.4	123.6	51.2	37.7	35.3
67.5°	163.7	99.5	37.1	28.8	27.1
70°	137.8	76.0	28.8	21.8	20.0
72.5°	113.0	54.8	20.6	15.9	15.3
75°	90.7	35.3	14.1	11.8	11.8
77.5°	68.3	21.2	10.0	8.8	8.8
80°	47.7	12.4	7.1	6.5	6.5
82.5°	28.8	6.5	4.7	4.1	4.1
85°	12.4	3.5	2.9	2.4	2.4
87.5°	2.4	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)