

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: P1056452

Luminaire Tested: S125R3DR-S610D927-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056452
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-S610D927-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

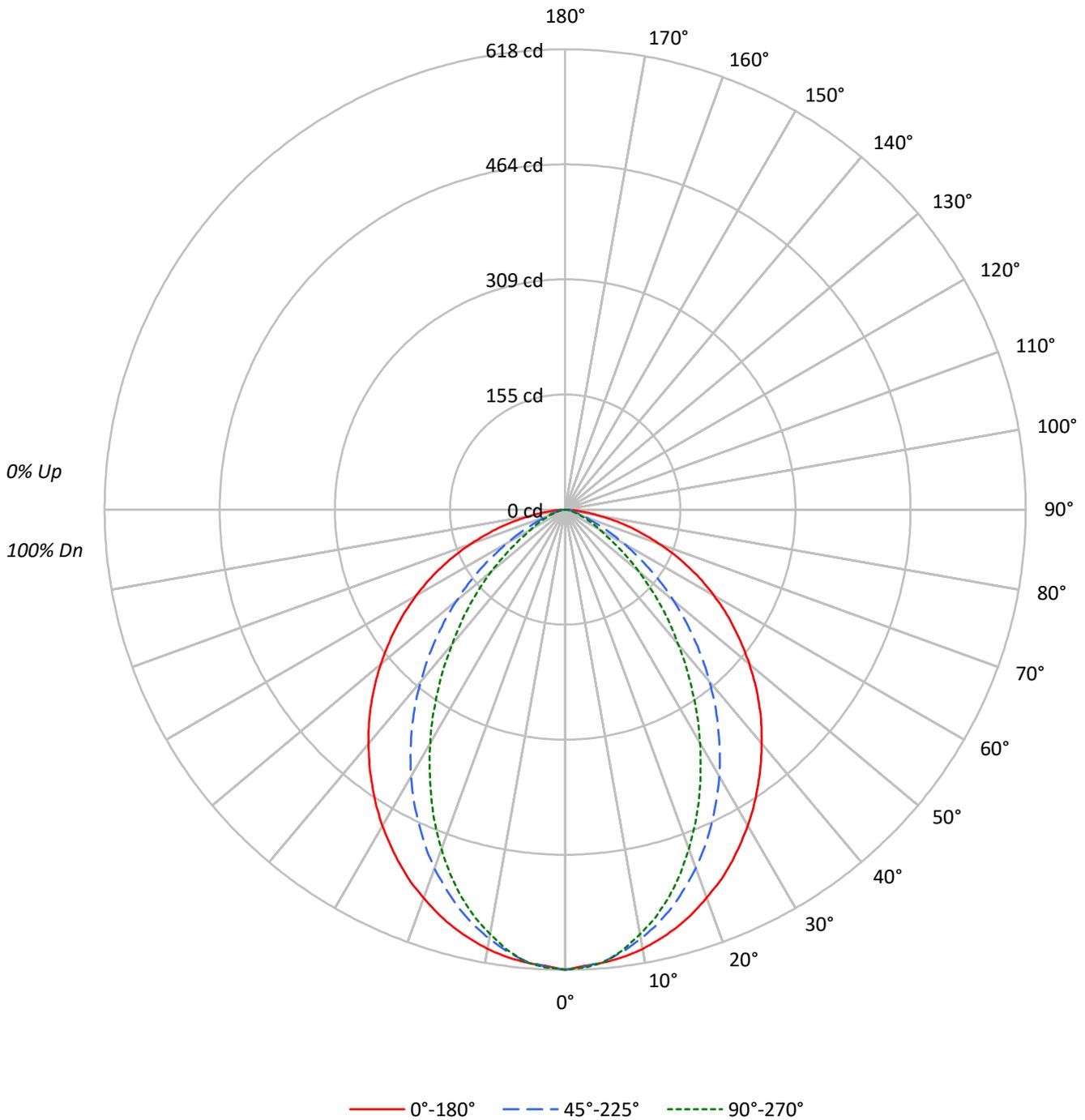
Lumens per Lamp: N/A
Luminaire Lumens: 1116.7 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4367	4367	4367
5°	4332	4320	4327
10°	4300	4201	4156
15°	4249	4049	3940
20°	4175	3856	3649
25°	4097	3628	3320
30°	4002	3376	2956
35°	3896	3090	2572
40°	3785	2777	2175
45°	3677	2447	1802
50°	3548	2083	1415
55°	3413	1692	1029
60°	3259	1261	737
65°	3063	833	574
70°	2768	579	403
75°	2406	374	311
80°	1885	281	256
85°	973	235	187

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3677 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	5.2
10°-20°	156.5	14.0
20°-30°	216.3	19.4
30°-40°	229.2	20.5
40°-50°	200.0	17.9
50°-60°	142.3	12.7
60°-70°	79.1	7.1
70°-80°	30.4	2.7
80°-90°	5.3	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°	430.3	38.5
0°-40°	659.5	59.1
0°-60°	1001.9	89.7
0°-90°	1116.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1116.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	610	615	609	607	610	58
15°	581	576	553	541	538	164
25°	525	507	465	436	426	242
35°	451	420	358	315	298	282
45°	368	324	245	196	180	284
55°	277	222	137	95	84	248
65°	183	120	50	37	34	181
75°	88	34	14	11	11	93
85°	12	3	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°	617.8	617.8	617.8	617.8	617.8
2.5°	613.3	619.5	614.4	615.0	615.5
5°	610.4	615.0	608.7	607.0	609.8
7.5°	605.8	609.3	598.4	594.4	596.1
10°	599.0	600.1	585.2	579.5	578.9
12.5°	590.4	588.7	570.4	561.2	560.6
15°	580.6	575.5	553.2	541.2	538.3
17.5°	568.6	560.6	533.2	517.7	513.1
20°	554.9	544.0	512.6	492.6	485.1
22.5°	541.2	526.3	489.7	464.5	456.5
25°	525.2	507.4	465.1	436.5	425.6
27.5°	508.0	486.8	439.9	406.7	393.6
30°	490.3	465.7	413.6	376.4	362.1
32.5°	471.4	443.4	386.1	345.5	330.7
35°	451.4	420.5	358.1	314.6	298.0
37.5°	431.3	397.0	330.7	284.3	267.2
40°	410.2	373.0	300.9	253.4	235.7
42.5°	389.6	348.4	272.9	224.3	208.2
45°	367.8	323.8	244.8	195.6	180.2
47.5°	345.5	298.0	216.8	168.8	153.3
50°	322.6	272.9	189.4	142.4	128.7
52.5°	299.8	247.7	163.6	117.3	105.3
55°	276.9	222.0	137.3	95.0	83.5
57.5°	254.0	196.8	112.7	74.4	64.1
60°	230.5	171.0	89.2	54.9	52.1
62.5°	207.1	145.9	69.2	45.2	42.9
65°	183.1	120.1	49.8	36.6	34.3
67.5°	159.0	96.7	36.0	28.0	26.3
70°	133.9	73.8	28.0	21.2	19.5
72.5°	109.8	53.2	20.0	15.4	14.9
75°	88.1	34.3	13.7	11.4	11.4
77.5°	66.4	20.6	9.7	8.6	8.6
80°	46.3	12.0	6.9	6.3	6.3
82.5°	28.0	6.3	4.6	4.0	4.0
85°	12.0	3.4	2.9	2.3	2.3
87.5°	2.3	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)