

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: P1056458

Luminaire Tested: S125R3DR-S610D935-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056458
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-S610D935-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

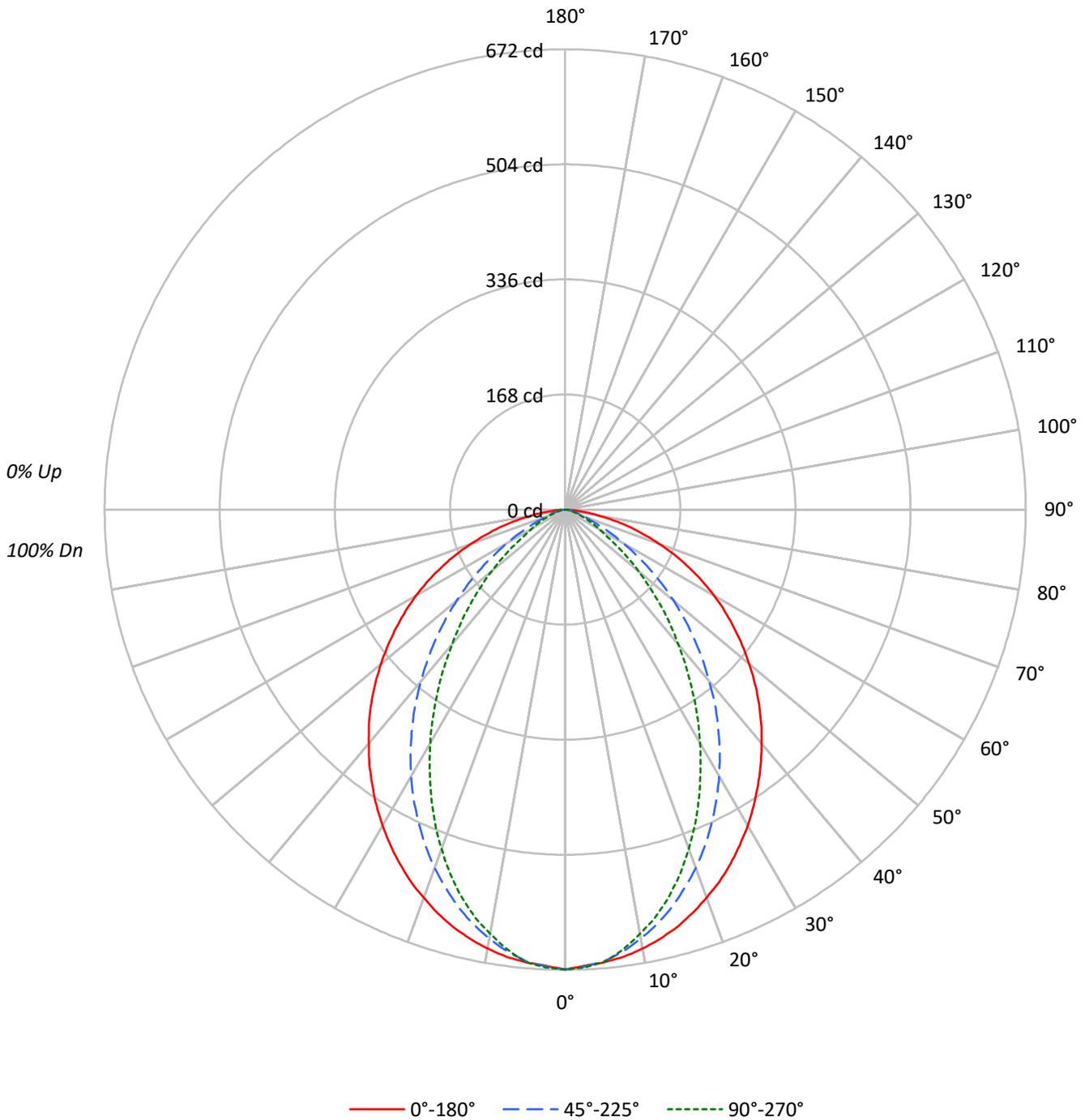
Lumens per Lamp: N/A
Luminaire Lumens: 1213.7 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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				
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°	4747	4747	4747
5°	4708	4695	4703
10°	4673	4566	4517
15°	4619	4400	4282
20°	4537	4191	3967
25°	4452	3943	3608
30°	4350	3669	3213
35°	4234	3359	2795
40°	4114	3018	2364
45°	3997	2660	1959
50°	3857	2263	1539
55°	3709	1839	1119
60°	3543	1371	800
65°	3329	905	624
70°	3007	630	436
75°	2617	407	339
80°	2052	305	277
85°	1063	251	203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3997 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	5.2
10°-20°	170.0	14.0
20°-30°	235.1	19.4
30°-40°	249.1	20.5
40°-50°	217.4	17.9
50°-60°	154.6	12.7
60°-70°	86.0	7.1
70°-80°	33.1	2.7
80°-90°	5.7	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°	467.7	38.5
0°-40°	716.8	59.1
0°-60°	1088.9	89.7
0°-90°	1213.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	663	668	662	660	663	63
15°	631	626	601	588	585	178
25°	571	552	506	474	463	263
35°	491	457	389	342	324	307
45°	400	352	266	213	196	308
55°	301	241	149	103	91	269
65°	199	131	54	40	37	197
75°	96	37	15	12	12	102
85°	13	4	3	2	2	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	671.5	671.5	671.5	671.5	671.5
2.5°	666.5	673.4	667.8	668.4	669.0
5°	663.4	668.4	661.6	659.7	662.8
7.5°	658.4	662.2	650.4	646.0	647.9
10°	651.0	652.2	636.1	629.8	629.2
12.5°	641.7	639.8	619.9	610.0	609.3
15°	631.1	625.5	601.2	588.2	585.1
17.5°	618.0	609.3	579.5	562.7	557.7
20°	603.1	591.3	557.1	535.3	527.3
22.5°	588.2	572.0	532.2	504.9	496.2
25°	570.8	551.5	505.5	474.4	462.6
27.5°	552.1	529.1	478.1	442.1	427.8
30°	532.9	506.1	449.5	409.1	393.6
32.5°	512.3	481.9	419.7	375.5	359.4
35°	490.6	457.0	389.2	342.0	323.9
37.5°	468.8	431.5	359.4	309.0	290.4
40°	445.8	405.4	327.0	275.4	256.2
42.5°	423.4	378.7	296.6	243.7	226.3
45°	399.8	351.9	266.1	212.6	195.9
47.5°	375.5	323.9	235.6	183.4	166.6
50°	350.7	296.6	205.8	154.8	139.9
52.5°	325.8	269.2	177.8	127.5	114.4
55°	300.9	241.2	149.2	103.2	90.8
57.5°	276.1	213.9	122.5	80.8	69.6
60°	250.6	185.9	97.0	59.7	56.6
62.5°	225.1	158.5	75.2	49.1	46.6
65°	199.0	130.6	54.1	39.8	37.3
67.5°	172.9	105.1	39.2	30.5	28.6
70°	145.5	80.2	30.5	23.0	21.1
72.5°	119.4	57.8	21.8	16.8	16.2
75°	95.8	37.3	14.9	12.4	12.4
77.5°	72.1	22.4	10.6	9.3	9.3
80°	50.4	13.1	7.5	6.8	6.8
82.5°	30.5	6.8	5.0	4.4	4.4
85°	13.1	3.7	3.1	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)