

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: P1056459

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-10)
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-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

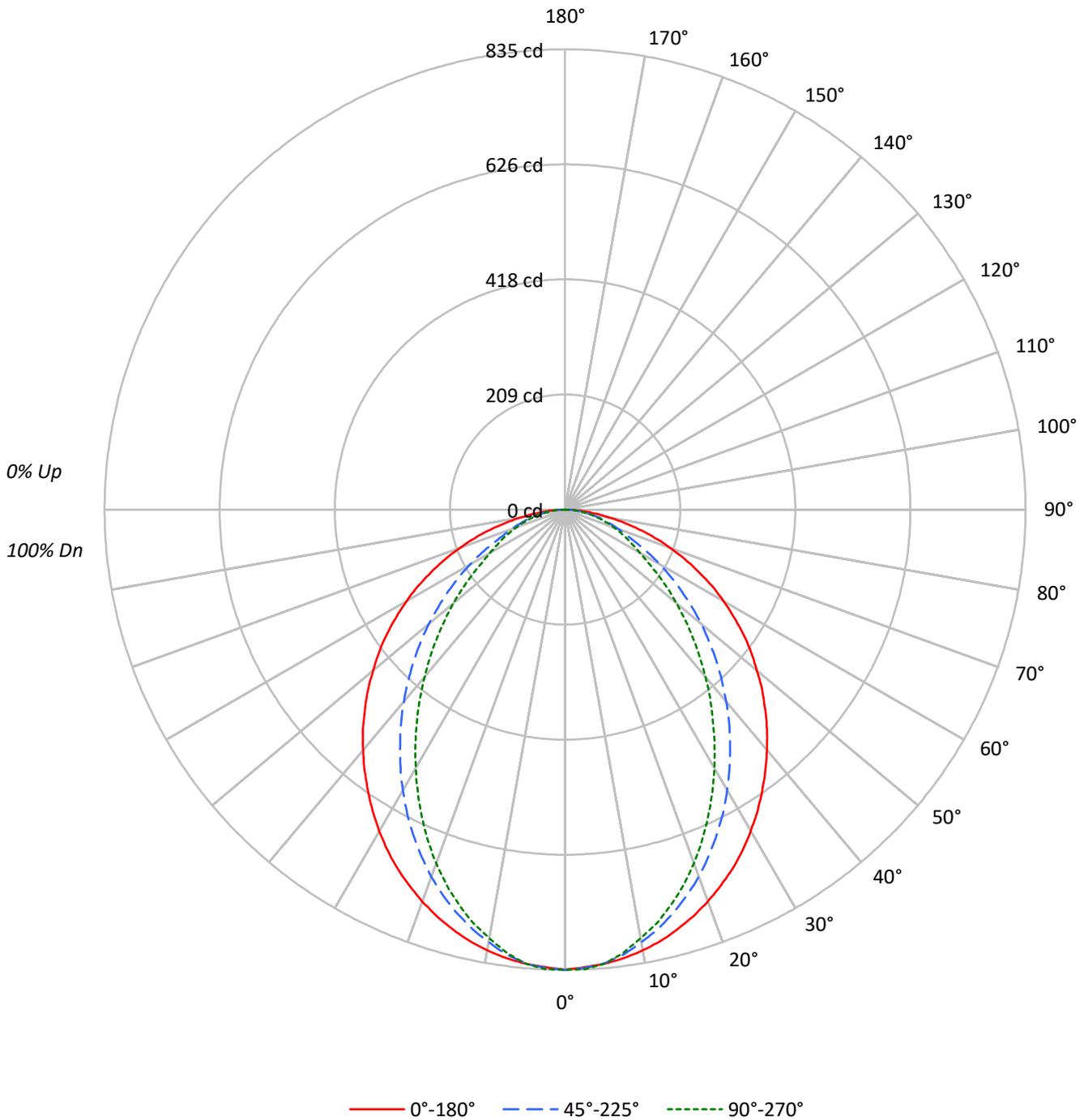
Lumens per Lamp: N/A
Luminaire Lumens: 1769.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86			86	
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73			73	
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63			63	
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55			55	
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48			48	
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43			43	
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38			38	
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34			34	
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31			31	
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28			28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5903	5903	5903
5°	5868	5864	5868
10°	5829	5722	5668
15°	5770	5547	5433
20°	5693	5332	5140
25°	5607	5078	4792
30°	5497	4801	4421
35°	5377	4502	4035
40°	5256	4194	3655
45°	5129	3873	3276
50°	4992	3542	2899
55°	4866	3180	2522
60°	4694	2795	2216
65°	4461	2372	2059
70°	4190	2121	1928
75°	3788	1953	1816
80°	3289	1771	1698
85°	2571	1565	1565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5129 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	4.4
10°-20°	214.5	12.1
20°-30°	303.0	17.1
30°-40°	333.6	18.8
40°-50°	311.2	17.6
50°-60°	248.4	14.0
60°-70°	167.2	9.4
70°-80°	89.0	5.0
80°-90°	24.7	1.4
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°	595.7	33.7
0°-40°	929.3	52.5
0°-60°	1488.9	84.1
0°-90°	1769.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	827	834	826	824	827	78
15°	788	784	758	745	742	222
25°	719	697	651	622	614	331
35°	623	586	522	481	468	390
45°	513	464	387	340	328	396
55°	395	335	258	217	205	352
65°	267	208	142	126	123	265
75°	139	92	72	67	66	148
85°	32	22	19	20	19	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.0	835.0	835.0	835.0	835.0
2.5°	830.7	837.5	831.9	833.2	834.4
5°	826.9	833.8	826.3	823.8	826.9
7.5°	820.7	826.3	813.9	808.3	810.8
10°	812.0	815.8	797.1	789.6	789.6
12.5°	801.5	801.5	779.1	768.5	768.5
15°	788.4	784.0	757.9	744.9	742.4
17.5°	773.5	765.4	734.3	717.5	714.4
20°	756.7	743.6	708.8	687.0	683.3
22.5°	738.0	721.2	680.8	654.1	649.7
25°	718.8	697.0	651.0	622.4	614.3
27.5°	697.0	670.9	620.5	588.2	578.2
30°	673.4	643.5	588.2	552.1	541.6
32.5°	649.1	615.5	555.2	516.7	504.9
35°	623.0	586.3	521.7	480.6	467.6
37.5°	596.9	557.1	488.7	445.8	432.1
40°	569.5	526.0	454.5	410.4	396.1
42.5°	542.2	495.5	420.9	376.2	361.2
45°	513.0	464.5	387.4	340.1	327.7
47.5°	485.0	432.7	354.4	308.4	294.7
50°	453.9	399.8	322.1	276.1	263.6
52.5°	425.3	367.5	289.7	246.8	233.8
55°	394.8	335.1	258.0	217.0	204.6
57.5°	363.1	302.8	227.6	189.0	177.2
60°	332.0	270.5	197.7	162.3	156.7
62.5°	300.3	240.0	169.7	142.4	138.7
65°	266.7	208.3	141.8	125.6	123.1
67.5°	235.0	177.8	119.4	110.1	107.6
70°	202.7	147.4	102.6	94.5	93.3
72.5°	171.0	118.1	86.4	80.8	79.6
75°	138.7	92.0	71.5	67.2	66.5
77.5°	108.8	69.0	56.6	54.7	53.5
80°	80.8	51.6	43.5	42.3	41.7
82.5°	55.3	35.4	31.1	31.1	29.8
85°	31.7	21.8	19.3	19.9	19.3
87.5°	11.8	9.3	8.7	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)