

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: P1056456

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056456
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-S610D930-X4F0-XX-UDD-FLL-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

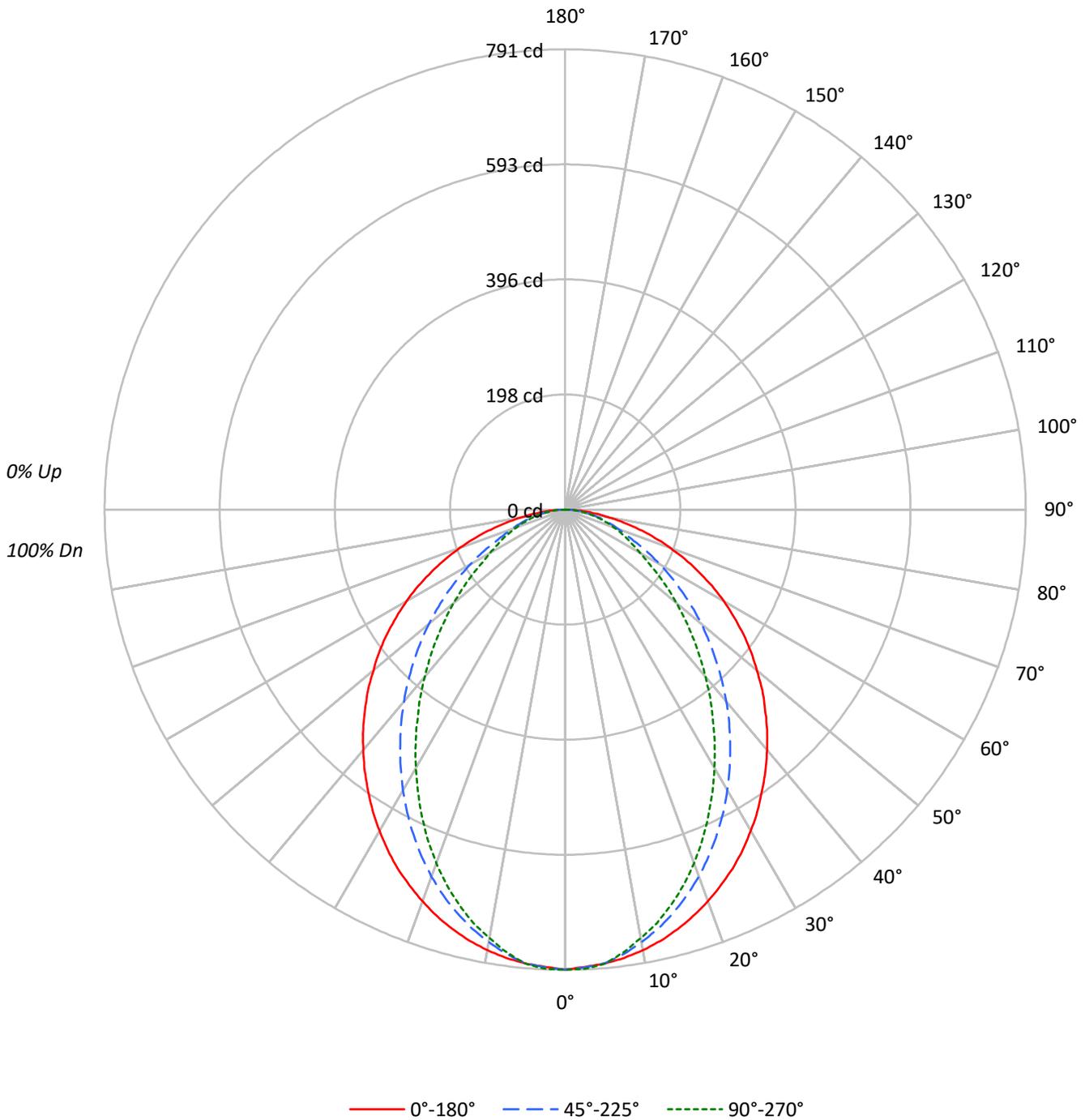
Lumens per Lamp: N/A
Luminaire Lumens: 1675.9 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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									
RC	80									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	31	42	35	30	41	35	30	40	34	30	28			28																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5590	5590	5590
5°	5557	5553	5557
10°	5519	5418	5367
15°	5464	5253	5145
20°	5390	5049	4867
25°	5309	4808	4537
30°	5205	4547	4186
35°	5091	4263	3821
40°	4977	3972	3461
45°	4856	3667	3102
50°	4727	3354	2745
55°	4608	3011	2387
60°	4445	2647	2098
65°	4225	2245	1950
70°	3966	2007	1825
75°	3586	1849	1721
80°	3114	1677	1604
85°	2433	1484	1484

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	4.4
10°-20°	203.1	12.1
20°-30°	287.0	17.1
30°-40°	315.9	18.8
40°-50°	294.7	17.6
50°-60°	235.2	14.0
60°-70°	158.3	9.4
70°-80°	84.3	5.0
80°-90°	23.4	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°	564.1	33.7
0°-40°	880.0	52.5
0°-60°	1409.9	84.1
0°-90°	1675.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	783	790	782	780	783	74
15°	747	742	718	705	703	210
25°	681	660	616	589	582	313
35°	590	555	494	455	443	369
45°	486	440	367	322	310	375
55°	374	317	244	206	194	334
65°	253	197	134	119	117	251
75°	131	87	68	64	63	140
85°	30	21	18	19	18	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790.7	790.7	790.7	790.7	790.7
2.5°	786.6	793.1	787.8	788.9	790.1
5°	783.1	789.5	782.5	780.1	783.1
7.5°	777.2	782.5	770.7	765.4	767.7
10°	768.9	772.5	754.8	747.7	747.7
12.5°	758.9	758.9	737.7	727.7	727.7
15°	746.6	742.4	717.7	705.3	703.0
17.5°	732.4	724.8	695.3	679.4	676.5
20°	716.5	704.2	671.2	650.6	647.0
22.5°	698.9	683.0	644.7	619.4	615.3
25°	680.6	660.0	616.4	589.4	581.7
27.5°	660.0	635.3	587.6	557.0	547.5
30°	637.6	609.4	557.0	522.8	512.8
32.5°	614.7	582.9	525.8	489.3	478.1
35°	589.9	555.2	494.0	455.1	442.7
37.5°	565.2	527.5	462.8	422.1	409.2
40°	539.3	498.1	430.4	388.6	375.0
42.5°	513.4	469.2	398.6	356.2	342.1
45°	485.7	439.8	366.8	322.1	310.3
47.5°	459.2	409.8	335.6	292.0	279.1
50°	429.8	378.6	305.0	261.4	249.6
52.5°	402.7	348.0	274.4	233.7	221.4
55°	373.9	317.3	244.3	205.5	193.7
57.5°	343.8	286.7	215.5	179.0	167.8
60°	314.4	256.1	187.2	153.7	148.4
62.5°	284.4	227.3	160.7	134.8	131.3
65°	252.6	197.2	134.2	118.9	116.6
67.5°	222.6	168.4	113.0	104.2	101.9
70°	191.9	139.5	97.1	89.5	88.3
72.5°	161.9	111.9	81.8	76.5	75.4
75°	131.3	87.1	67.7	63.6	63.0
77.5°	103.0	65.4	53.6	51.8	50.6
80°	76.5	48.9	41.2	40.0	39.4
82.5°	52.4	33.6	29.4	29.4	28.3
85°	30.0	20.6	18.3	18.8	18.3
87.5°	11.2	8.8	8.2	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)