

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: P1056440

Luminaire Tested: S125R3DR-S610D830-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056440
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-S610D830-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, 80 CRI LEDS
Ballast/Driver: -

Summary

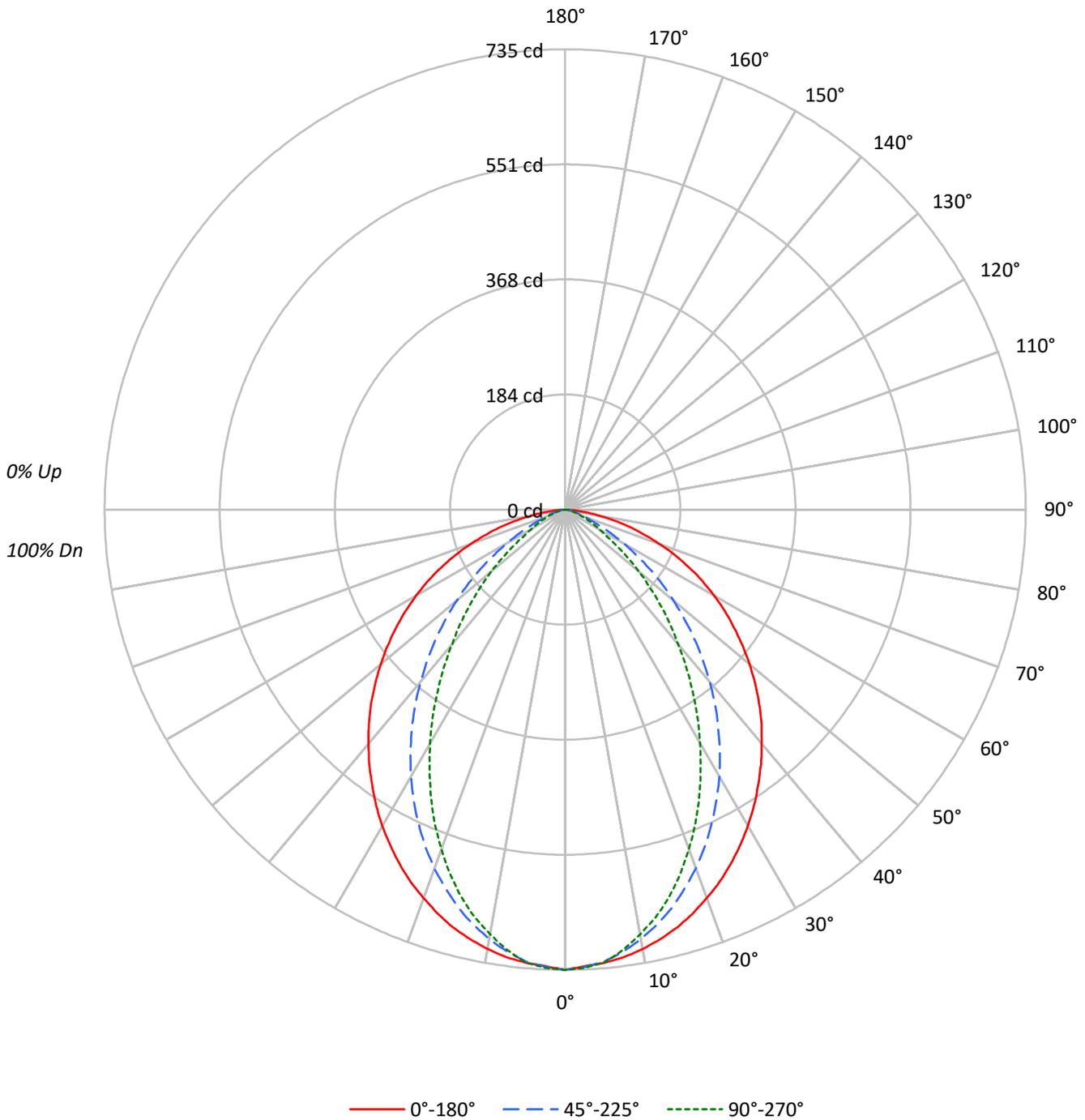
Lumens per Lamp: N/A
Luminaire Lumens: 1328.6 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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°	5197	5197	5197
5°	5154	5139	5149
10°	5115	4998	4944
15°	5057	4817	4688
20°	4967	4588	4342
25°	4874	4317	3950
30°	4761	4017	3517
35°	4634	3677	3060
40°	4503	3304	2588
45°	4376	2912	2143
50°	4222	2478	1684
55°	4060	2014	1225
60°	3878	1502	875
65°	3643	990	682
70°	3293	690	477
75°	2862	445	371
80°	2243	334	305
85°	1160	276	219

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4376 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	5.2
10°-20°	186.1	14.0
20°-30°	257.4	19.4
30°-40°	272.7	20.5
40°-50°	238.0	17.9
50°-60°	169.3	12.7
60°-70°	94.1	7.1
70°-80°	36.2	2.7
80°-90°	6.3	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°	512.0	38.5
0°-40°	784.7	59.1
0°-60°	1192.0	89.7
0°-90°	1328.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1328.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	726	732	724	722	726	69
15°	691	685	658	644	640	195
25°	625	604	553	519	506	288
35°	537	500	426	374	355	336
45°	438	385	291	233	214	337
55°	329	264	163	113	99	295
65°	218	143	59	44	41	215
75°	105	41	16	14	14	111
85°	14	4	3	3	3	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	735.1	735.1	735.1	735.1	735.1
2.5°	729.7	737.1	731.0	731.7	732.4
5°	726.3	731.7	724.2	722.2	725.6
7.5°	720.8	724.9	712.0	707.2	709.2
10°	712.6	714.0	696.3	689.5	688.8
12.5°	702.4	700.4	678.6	667.7	667.0
15°	690.9	684.7	658.2	643.9	640.5
17.5°	676.6	667.0	634.4	616.0	610.5
20°	660.2	647.3	609.9	586.0	577.2
22.5°	643.9	626.2	582.6	552.7	543.2
25°	624.8	603.7	553.4	519.3	506.4
27.5°	604.4	579.2	523.4	483.9	468.3
30°	583.3	554.0	492.1	447.9	430.9
32.5°	560.9	527.5	459.4	411.1	393.4
35°	537.0	500.3	426.1	374.4	354.6
37.5°	513.2	472.4	393.4	338.3	317.9
40°	488.0	443.8	358.0	301.5	280.4
42.5°	463.5	414.5	324.7	266.8	247.8
45°	437.7	385.2	291.3	232.8	214.4
47.5°	411.1	354.6	258.0	200.8	182.4
50°	383.9	324.7	225.3	169.5	153.1
52.5°	356.7	294.7	194.7	139.5	125.2
55°	329.4	264.1	163.4	113.0	99.4
57.5°	302.2	234.1	134.1	88.5	76.2
60°	274.3	203.5	106.2	65.3	61.9
62.5°	246.4	173.6	82.4	53.8	51.0
65°	217.8	142.9	59.2	43.6	40.8
67.5°	189.2	115.0	42.9	33.4	31.3
70°	159.3	87.8	33.4	25.2	23.1
72.5°	130.7	63.3	23.8	18.4	17.7
75°	104.8	40.8	16.3	13.6	13.6
77.5°	79.0	24.5	11.6	10.2	10.2
80°	55.1	14.3	8.2	7.5	7.5
82.5°	33.4	7.5	5.4	4.8	4.8
85°	14.3	4.1	3.4	2.7	2.7
87.5°	2.7	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)