

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: P1056443

Luminaire Tested: S125R3DR-S610D835-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056443
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-S610D835-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, 80 CRI LEDS
Ballast/Driver: -

Summary

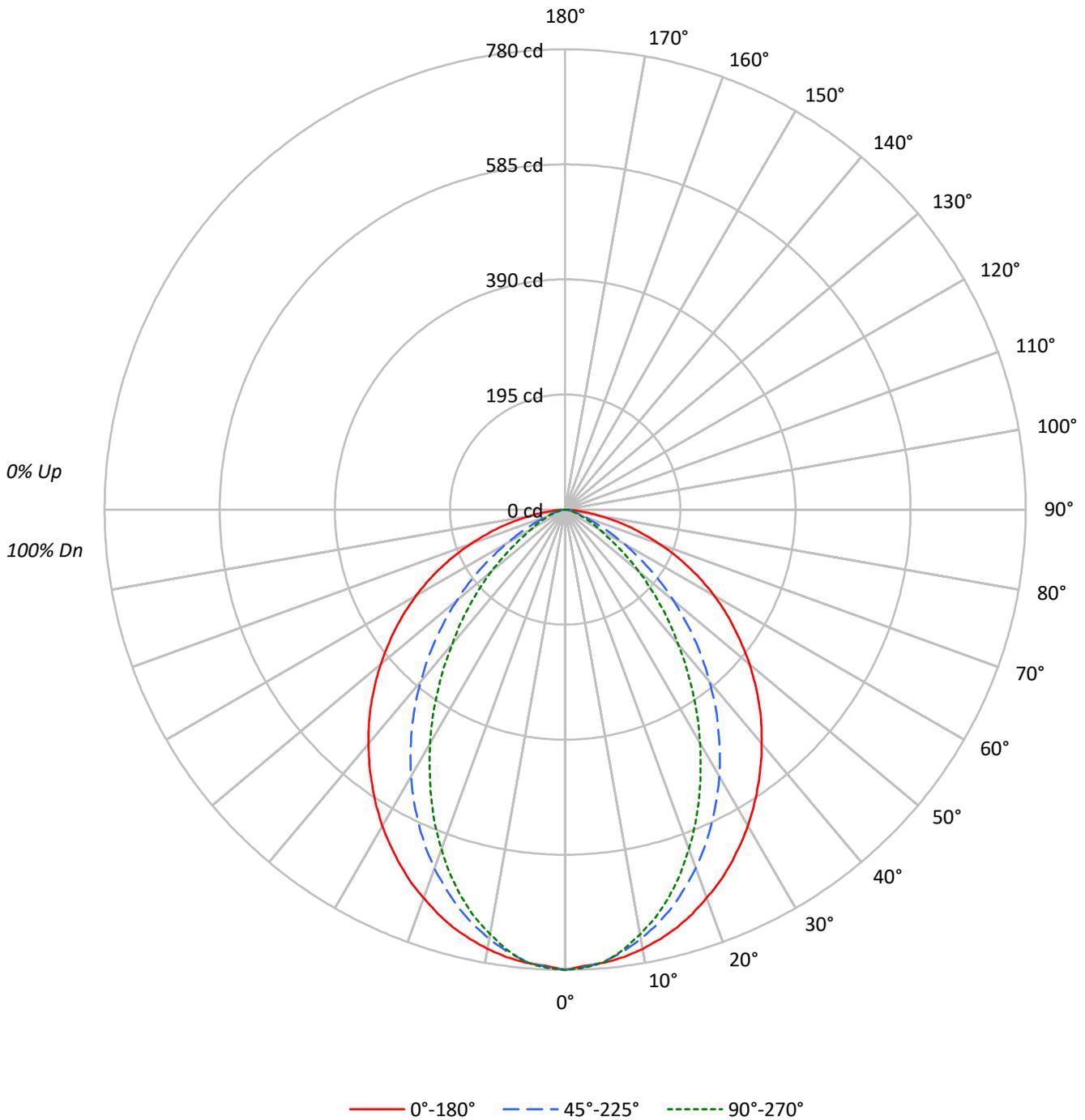
Lumens per Lamp: N/A
Luminaire Lumens: 1409.6 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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°	5513	5513	5513
5°	5468	5453	5463
10°	5428	5303	5246
15°	5365	5111	4973
20°	5270	4867	4607
25°	5171	4579	4191
30°	5052	4262	3731
35°	4917	3902	3247
40°	4778	3505	2745
45°	4642	3090	2274
50°	4479	2629	1787
55°	4308	2136	1299
60°	4114	1593	929
65°	3866	1050	724
70°	3493	732	508
75°	3037	473	393
80°	2382	354	322
85°	1233	292	235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4642 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	5.2
10°-20°	197.5	14.0
20°-30°	273.1	19.4
30°-40°	289.3	20.5
40°-50°	252.5	17.9
50°-60°	179.6	12.7
60°-70°	99.9	7.1
70°-80°	38.4	2.7
80°-90°	6.6	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°	543.2	38.5
0°-40°	832.6	59.1
0°-60°	1264.7	89.7
0°-90°	1409.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1409.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	770	776	768	766	770	73
15°	733	726	698	683	680	206
25°	663	640	587	551	537	305
35°	570	531	452	397	376	356
45°	464	409	309	247	228	358
55°	350	280	173	120	105	312
65°	231	152	63	46	43	228
75°	111	43	17	14	14	118
85°	15	4	4	3	3	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.9	779.9	779.9	779.9	779.9
2.5°	774.1	782.1	775.6	776.3	777.0
5°	770.5	776.3	768.4	766.2	769.8
7.5°	764.7	769.1	755.4	750.3	752.5
10°	756.1	757.5	738.8	731.5	730.8
12.5°	745.3	743.1	720.0	708.4	707.7
15°	733.0	726.5	698.3	683.1	679.5
17.5°	717.8	707.7	673.0	653.5	647.8
20°	700.5	686.8	647.0	621.8	612.4
22.5°	683.1	664.4	618.2	586.4	576.3
25°	662.9	640.5	587.1	551.0	537.3
27.5°	641.3	614.5	555.3	513.4	496.8
30°	618.9	587.8	522.1	475.2	457.1
32.5°	595.0	559.7	487.4	436.2	417.4
35°	569.8	530.8	452.1	397.2	376.2
37.5°	544.5	501.2	417.4	358.9	337.2
40°	517.8	470.8	379.8	319.9	297.5
42.5°	491.8	439.8	344.5	283.1	262.9
45°	464.3	408.7	309.1	247.0	227.5
47.5°	436.2	376.2	273.7	213.0	193.5
50°	407.3	344.5	239.0	179.8	162.5
52.5°	378.4	312.7	206.5	148.0	132.9
55°	349.5	280.2	173.3	119.9	105.4
57.5°	320.6	248.4	142.3	93.9	80.9
60°	291.0	215.9	112.7	69.3	65.7
62.5°	261.4	184.1	87.4	57.0	54.2
65°	231.1	151.7	62.8	46.2	43.3
67.5°	200.8	122.0	45.5	35.4	33.2
70°	169.0	93.2	35.4	26.7	24.6
72.5°	138.7	67.2	25.3	19.5	18.8
75°	111.2	43.3	17.3	14.4	14.4
77.5°	83.8	26.0	12.3	10.8	10.8
80°	58.5	15.2	8.7	7.9	7.9
82.5°	35.4	7.9	5.8	5.1	5.1
85°	15.2	4.3	3.6	2.9	2.9
87.5°	2.9	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)