

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: P1056457

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-11)
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-B
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

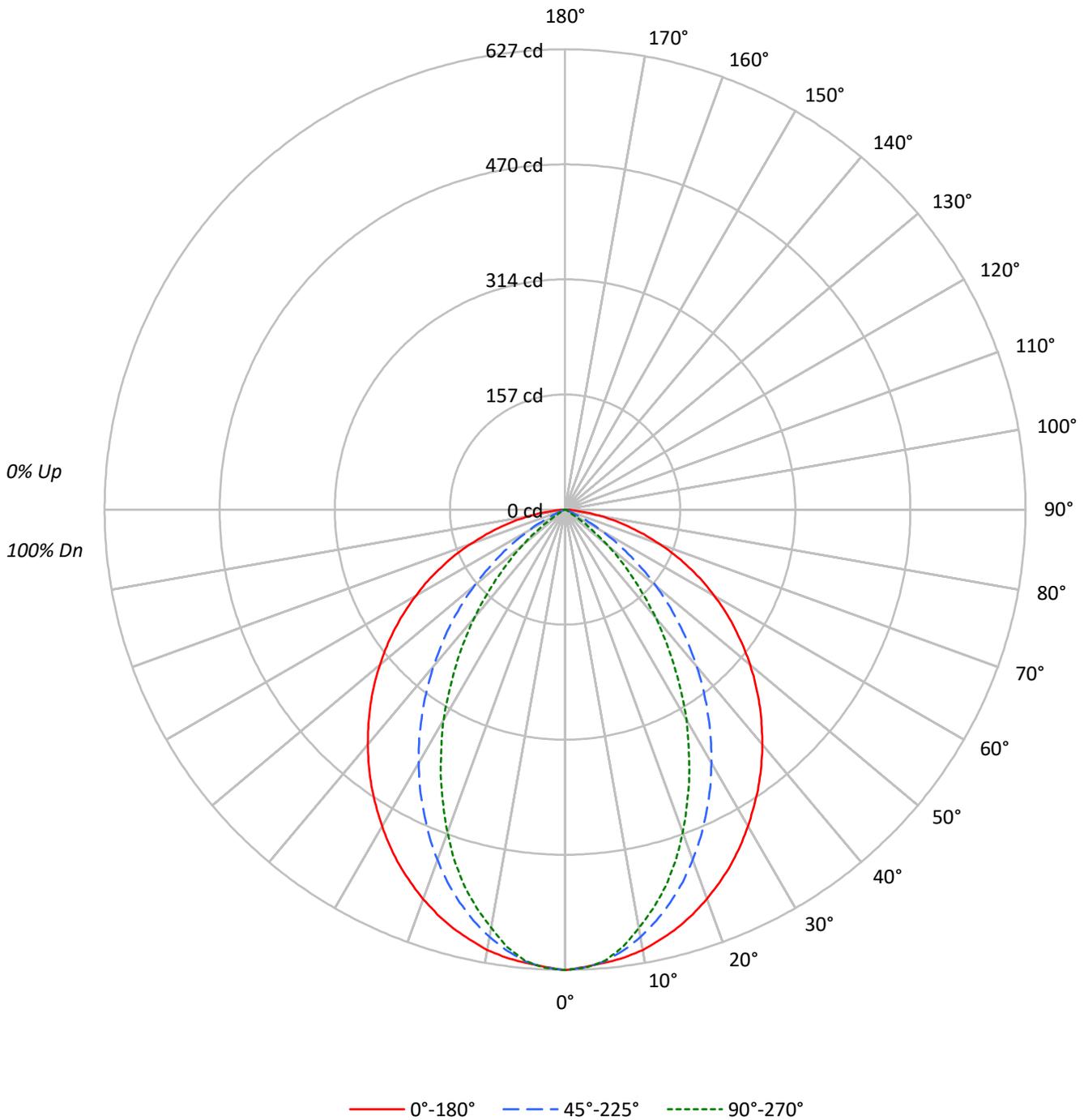
Lumens per Lamp: N/A
Luminaire Lumens: 1016.9 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61				61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55				55
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49				49
7	72	61	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45				45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41				41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4435	4435	4435
5°	4399	4386	4381
10°	4374	4245	4156
15°	4319	4055	3882
20°	4248	3822	3522
25°	4166	3550	3123
30°	4065	3254	2700
35°	3966	2925	2233
40°	3856	2571	1767
45°	3742	2194	1281
50°	3617	1771	827
55°	3479	1295	367
60°	3314	800	106
65°	3110	291	62
70°	2815	103	25
75°	2445	33	16
80°	1873	24	0
85°	860	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	5.7
10°-20°	156.5	15.4
20°-30°	211.7	20.8
30°-40°	217.5	21.4
40°-50°	180.1	17.7
50°-60°	115.7	11.4
60°-70°	55.9	5.5
70°-80°	18.9	1.9
80°-90°	2.4	0.2
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°	426.4	41.9
0°-40°	643.9	63.3
0°-60°	939.7	92.4
0°-90°	1016.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1016.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	620	625	618	614	617	59
15°	590	583	554	535	530	166
25°	534	508	455	414	400	246
35°	460	415	339	280	259	287
45°	374	313	220	152	128	289
55°	282	207	105	46	30	252
65°	186	103	17	5	4	184
75°	90	19	1	1	1	95
85°	11	0	0	0	0	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.4	627.4	627.4	627.4	627.4
2.5°	623.6	628.6	624.3	623.6	624.9
5°	619.9	624.9	618.0	614.3	617.4
7.5°	615.5	618.0	606.2	600.0	601.2
10°	609.3	608.7	591.3	580.7	578.9
12.5°	600.0	596.9	573.9	559.0	555.9
15°	590.1	582.6	554.0	534.7	530.4
17.5°	578.2	566.4	532.2	507.4	501.1
20°	564.6	548.4	508.0	477.5	468.2
22.5°	549.6	529.1	482.5	446.4	434.0
25°	534.1	508.0	455.1	414.1	400.4
27.5°	516.7	486.2	427.8	381.1	364.4
30°	498.0	463.2	398.6	347.6	330.8
32.5°	478.8	440.2	369.3	314.0	293.5
35°	459.5	415.3	338.9	279.8	258.7
37.5°	439.0	390.5	309.0	247.5	224.5
40°	417.8	365.0	278.6	213.9	191.5
42.5°	396.1	338.9	248.1	182.2	159.2
45°	374.3	312.7	219.5	151.7	128.1
47.5°	351.9	286.0	189.6	121.9	101.3
50°	328.9	259.9	161.0	95.1	75.2
52.5°	305.9	233.2	131.8	69.0	51.0
55°	282.3	207.0	105.1	46.0	29.8
57.5°	258.7	180.3	80.2	25.5	11.2
60°	234.4	154.8	56.6	8.7	7.5
62.5°	210.8	127.5	35.4	6.8	5.6
65°	185.9	102.6	17.4	5.0	3.7
67.5°	161.7	79.0	7.5	3.1	1.9
70°	136.2	57.2	5.0	1.9	1.2
72.5°	112.5	36.7	3.1	1.2	0.6
75°	89.5	19.3	1.2	0.6	0.6
77.5°	67.2	8.1	0.6	0.6	0.6
80°	46.0	3.7	0.6	0.6	0.0
82.5°	27.4	1.2	0.6	0.6	0.0
85°	10.6	0.0	0.0	0.0	0.0
87.5°	0.6	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)