

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: P1056453

Luminaire Tested: S125R3DR-S610D927-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056453
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-S610D927-X4F0-XX-UDD-FLL-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

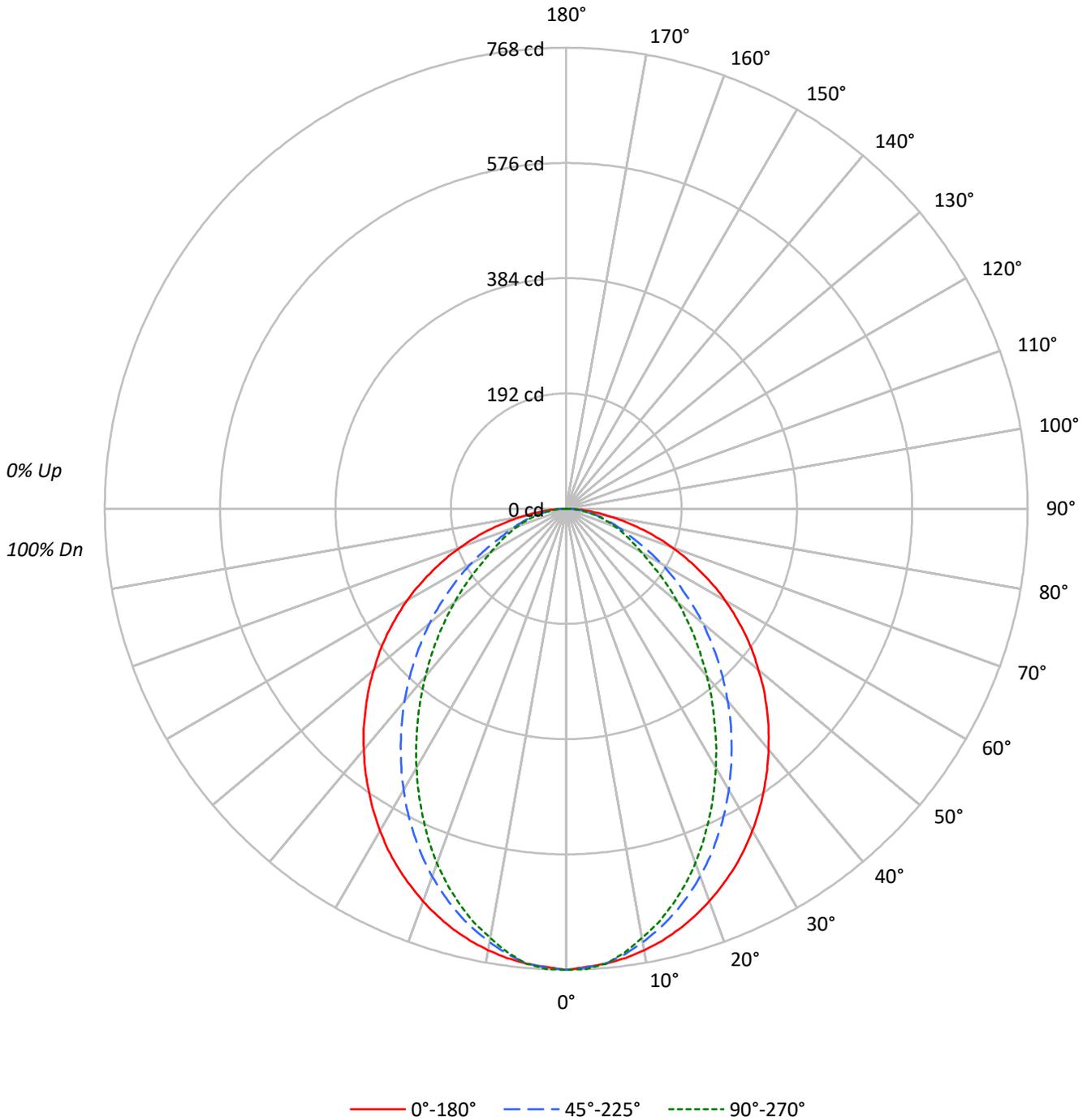
Lumens per Lamp: N/A
Luminaire Lumens: 1628.4 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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°	5431	5431	5431
5°	5400	5395	5400
10°	5363	5265	5215
15°	5309	5104	4999
20°	5238	4907	4730
25°	5158	4672	4409
30°	5058	4418	4068
35°	4947	4142	3713
40°	4836	3859	3363
45°	4719	3563	3014
50°	4593	3259	2668
55°	4478	2926	2320
60°	4319	2572	2039
65°	4105	2181	1895
70°	3855	1951	1773
75°	3485	1797	1672
80°	3029	1628	1559
85°	2368	1436	1436

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4719 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	4.4
10°-20°	197.4	12.1
20°-30°	278.8	17.1
30°-40°	306.9	18.8
40°-50°	286.3	17.6
50°-60°	228.6	14.0
60°-70°	153.8	9.4
70°-80°	81.9	5.0
80°-90°	22.8	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°	548.1	33.7
0°-40°	855.0	52.5
0°-60°	1369.9	84.1
0°-90°	1628.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	761	767	760	758	761	72
15°	725	721	697	685	683	205
25°	661	641	599	573	565	304
35°	573	540	480	442	430	359
45°	472	427	356	313	302	364
55°	363	308	237	200	188	324
65°	245	192	130	116	113	243
75°	128	85	66	62	61	136
85°	29	20	18	18	18	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.3	768.3	768.3	768.3	768.3
2.5°	764.3	770.6	765.4	766.6	767.7
5°	760.9	767.1	760.3	758.0	760.9
7.5°	755.1	760.3	748.8	743.7	746.0
10°	747.1	750.6	733.4	726.5	726.5
12.5°	737.4	737.4	716.8	707.1	707.1
15°	725.4	721.4	697.4	685.3	683.0
17.5°	711.7	704.2	675.6	660.2	657.3
20°	696.2	684.2	652.2	632.1	628.7
22.5°	679.0	663.6	626.4	601.8	597.8
25°	661.3	641.3	599.0	572.6	565.2
27.5°	641.3	617.3	570.9	541.2	532.0
30°	619.6	592.1	541.2	508.0	498.3
32.5°	597.2	566.3	510.9	475.4	464.5
35°	573.2	539.5	480.0	442.2	430.2
37.5°	549.2	512.6	449.6	410.2	397.6
40°	524.0	484.0	418.2	377.6	364.4
42.5°	498.8	455.9	387.3	346.1	332.4
45°	472.0	427.3	356.4	312.9	301.5
47.5°	446.2	398.2	326.1	283.7	271.2
50°	417.6	367.8	296.3	254.0	242.6
52.5°	391.3	338.1	266.6	227.1	215.1
55°	363.3	308.3	237.4	199.7	188.2
57.5°	334.1	278.6	209.4	173.9	163.0
60°	305.5	248.8	181.9	149.3	144.2
62.5°	276.3	220.8	156.2	131.0	127.6
65°	245.4	191.6	130.4	115.6	113.3
67.5°	216.2	163.6	109.8	101.3	99.0
70°	186.5	135.6	94.4	87.0	85.8
72.5°	157.3	108.7	79.5	74.4	73.2
75°	127.6	84.7	65.8	61.8	61.2
77.5°	100.1	63.5	52.1	50.3	49.2
80°	74.4	47.5	40.0	38.9	38.3
82.5°	50.9	32.6	28.6	28.6	27.5
85°	29.2	20.0	17.7	18.3	17.7
87.5°	10.9	8.6	8.0	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)