

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: P1061713

Luminaire Tested: S125RDR-S610D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D927-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

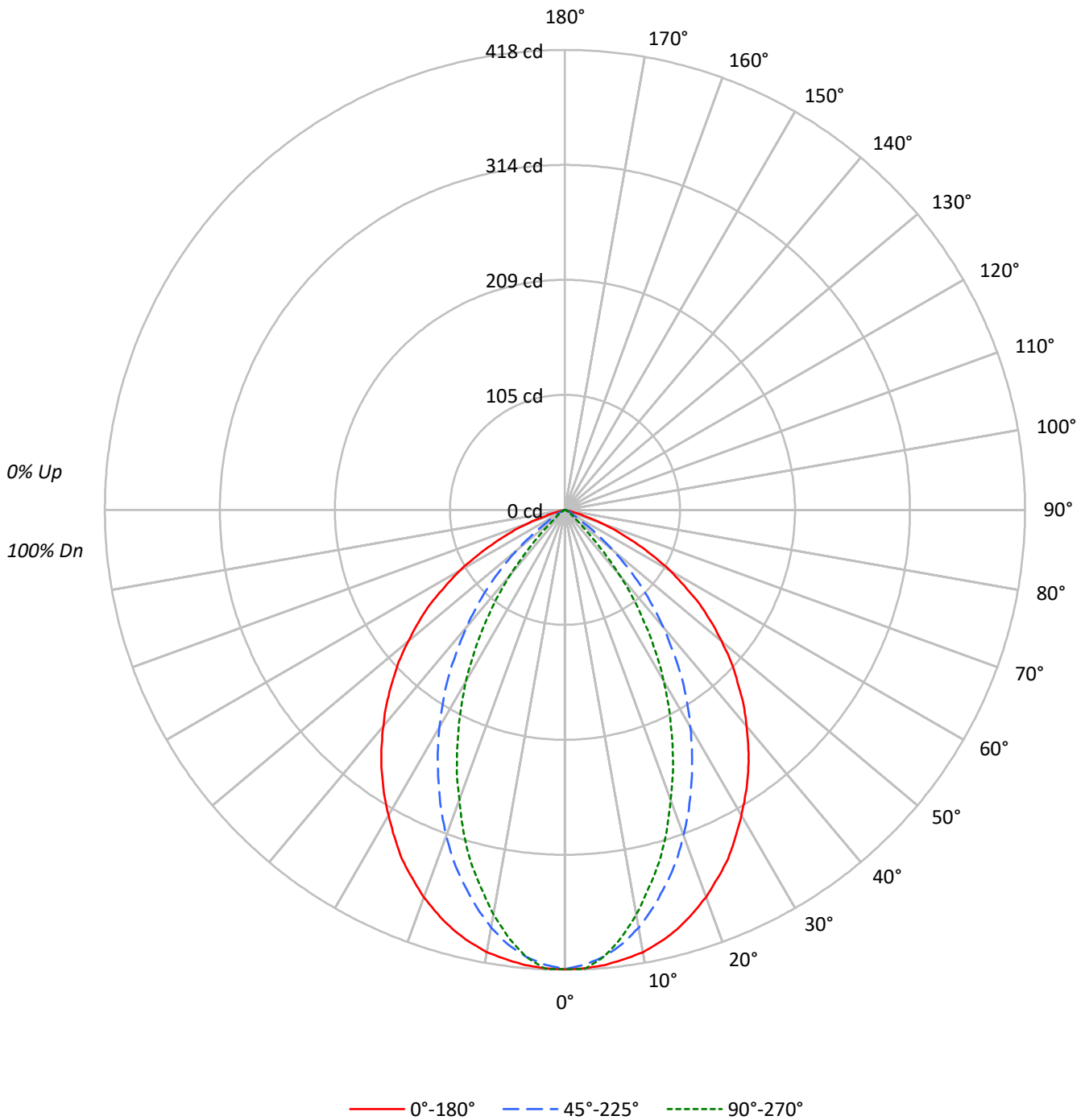
Lumens per Lamp: N/A
Luminaire Lumens: 539.4 lumens
Efficiency: N/A
Efficacy: 27.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91				
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82				
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66				
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54				
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50				
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46				
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2875	2875	2875
5°	2870	2817	2817
10°	2854	2696	2611
15°	2811	2517	2359
20°	2745	2309	2055
25°	2661	2067	1749
30°	2549	1813	1428
35°	2440	1547	1069
40°	2307	1248	693
45°	2162	944	300
50°	1988	602	112
55°	1792	264	79
60°	1518	114	54
65°	1149	72	28
70°	699	34	12
75°	146	16	16
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2162 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	7.1
10°-20°	100.3	18.6
20°-30°	128.8	23.9
30°-40°	121.3	22.5
40°-50°	84.8	15.7
50°-60°	45.3	8.4
60°-70°	18.1	3.4
70°-80°	2.4	0.4
80°-90°	0.0	0.0
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°	267.6	49.6
0°-40°	388.9	72.1
0°-60°	519.0	96.2
0°-90°	539.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	539.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	415	414	408	409	408	39
15°	394	382	353	336	331	111
25°	350	320	272	242	230	161
35°	290	244	184	142	127	181
45°	222	166	97	47	31	171
55°	149	91	22	8	7	132
65°	70	28	4	2	2	70
75°	6	2	1	1	1	11
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	417.5	417.5	417.5	417.5	417.5
2.5°	417.0	417.5	413.7	417.0	417.5
5°	415.3	414.2	407.6	408.7	407.6
7.5°	412.0	409.3	398.2	394.4	392.2
10°	408.2	402.1	385.6	377.3	373.4
12.5°	402.1	393.3	370.1	357.5	352.0
15°	394.4	381.7	353.1	336.5	331.0
17.5°	385.0	368.5	335.4	315.1	306.8
20°	374.6	352.5	315.1	290.8	280.4
22.5°	362.4	337.1	294.1	267.1	256.7
25°	350.3	319.5	272.1	242.4	230.2
27.5°	335.4	301.3	250.1	218.1	204.9
30°	320.6	283.1	228.0	193.3	179.6
32.5°	305.7	263.8	206.0	167.4	153.7
35°	290.3	244.0	184.0	142.1	127.2
37.5°	273.8	224.2	160.3	117.9	102.5
40°	256.7	204.9	138.8	94.2	77.1
42.5°	240.2	185.6	117.3	71.1	52.3
45°	222.0	166.3	96.9	46.8	30.8
47.5°	204.9	147.6	76.0	27.0	16.0
50°	185.6	128.3	56.2	14.3	10.5
52.5°	167.4	109.6	37.5	9.4	8.3
55°	149.3	91.4	22.0	7.7	6.6
57.5°	128.3	73.8	12.1	6.1	5.0
60°	110.2	57.8	8.3	4.4	3.9
62.5°	89.2	42.4	6.1	3.3	2.8
65°	70.5	28.1	4.4	2.2	1.7
67.5°	52.3	16.5	2.8	1.1	1.1
70°	34.7	8.8	1.7	0.6	0.6
72.5°	18.2	3.9	1.1	0.6	0.6
75°	5.5	1.7	0.6	0.6	0.6
77.5°	0.0	0.6	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)