

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: P1061714

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
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-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

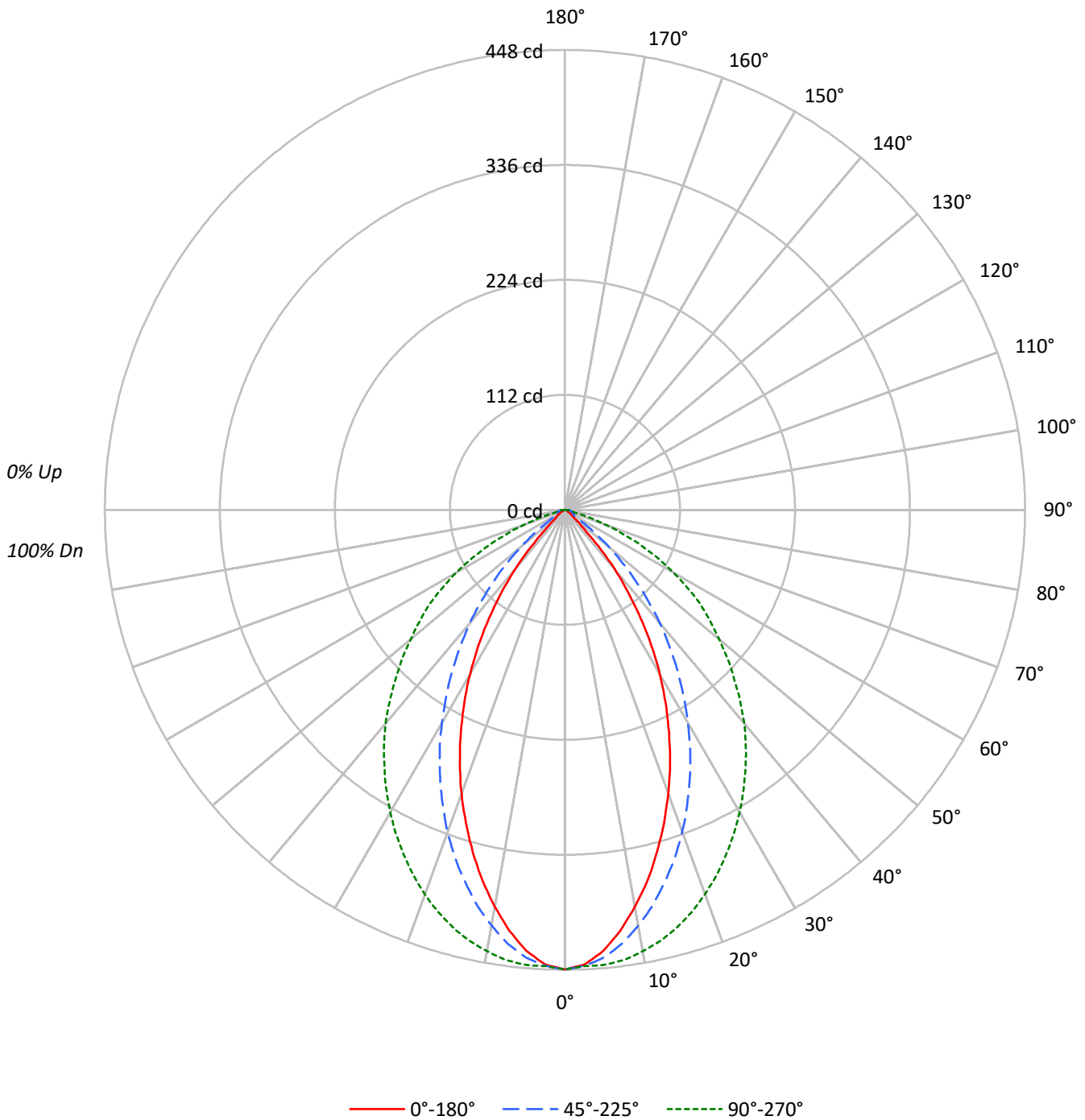
Lumens per Lamp: N/A
Luminaire Lumens: 575.8 lumens
Efficiency: N/A
Efficacy: 29.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3083	3083	3083
5°	2980	3025	3075
10°	2744	2876	3052
15°	2464	2676	3002
20°	2157	2448	2921
25°	1822	2186	2818
30°	1468	1903	2705
35°	1080	1604	2576
40°	674	1293	2443
45°	252	945	2271
50°	118	590	2096
55°	86	245	1939
60°	61	129	1677
65°	36	153	1329
70°	34	177	843
75°	45	176	263
80°	67	218	198
85°	134	348	261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2271 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	7.1
10°-20°	106.3	18.5
20°-30°	135.4	23.5
30°-40°	126.0	21.9
40°-50°	86.3	15.0
50°-60°	47.5	8.3
60°-70°	22.5	3.9
70°-80°	7.1	1.2
80°-90°	3.6	0.6
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°	282.7	49.1
0°-40°	408.7	71.0
0°-60°	542.6	94.2
0°-90°	575.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	575.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	431	437	438	441	445	40
15°	346	357	375	404	421	96
25°	240	255	288	334	371	109
35°	128	147	191	254	306	80
45°	26	44	97	172	233	25
55°	7	8	20	96	162	6
65°	2	3	9	35	82	3
75°	2	3	7	7	10	2
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	447.7	447.7	447.7	447.7	447.7
2.5°	443.3	447.7	444.4	444.4	444.9
5°	431.1	436.6	437.7	441.1	444.9
7.5°	413.5	420.7	426.2	435.5	442.2
10°	392.5	401.4	411.3	426.7	436.6
12.5°	370.5	379.9	394.7	416.2	430.0
15°	345.7	356.7	375.4	403.6	421.2
17.5°	320.3	332.4	355.6	388.7	410.7
20°	294.4	307.1	334.1	371.0	398.6
22.5°	267.4	281.2	310.9	352.8	385.4
25°	239.8	254.7	287.8	334.1	371.0
27.5°	212.3	227.7	264.1	314.8	356.1
30°	184.7	200.7	239.3	295.0	340.2
32.5°	156.6	174.2	215.0	275.1	323.6
35°	128.5	146.6	190.8	253.6	306.5
37.5°	100.9	119.6	167.0	233.2	289.4
40°	75.0	93.7	143.9	212.8	271.8
42.5°	48.5	68.4	119.6	191.9	252.5
45°	25.9	43.6	97.0	172.0	233.2
47.5°	13.8	23.2	75.5	152.2	215.0
50°	11.0	12.7	55.1	132.3	195.7
52.5°	8.8	9.9	35.3	111.9	178.6
55°	7.2	8.3	20.4	95.9	161.5
57.5°	5.5	6.6	11.6	79.9	141.7
60°	4.4	5.0	9.4	64.0	121.8
62.5°	2.8	3.9	9.4	49.6	102.0
65°	2.2	2.8	9.4	35.3	81.6
67.5°	2.2	2.2	9.4	23.2	61.2
70°	1.7	1.7	8.8	14.9	41.9
72.5°	1.7	1.7	7.7	9.9	24.3
75°	1.7	2.8	6.6	7.2	9.9
77.5°	1.7	4.4	6.1	6.1	5.5
80°	1.7	4.4	5.5	5.0	5.0
82.5°	1.7	4.4	4.4	4.4	3.9
85°	1.7	3.9	4.4	3.9	3.3
87.5°	1.7	3.9	3.9	3.9	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)