

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: P1061749

Luminaire Tested: S125RDR-S610D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061749
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-S610D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

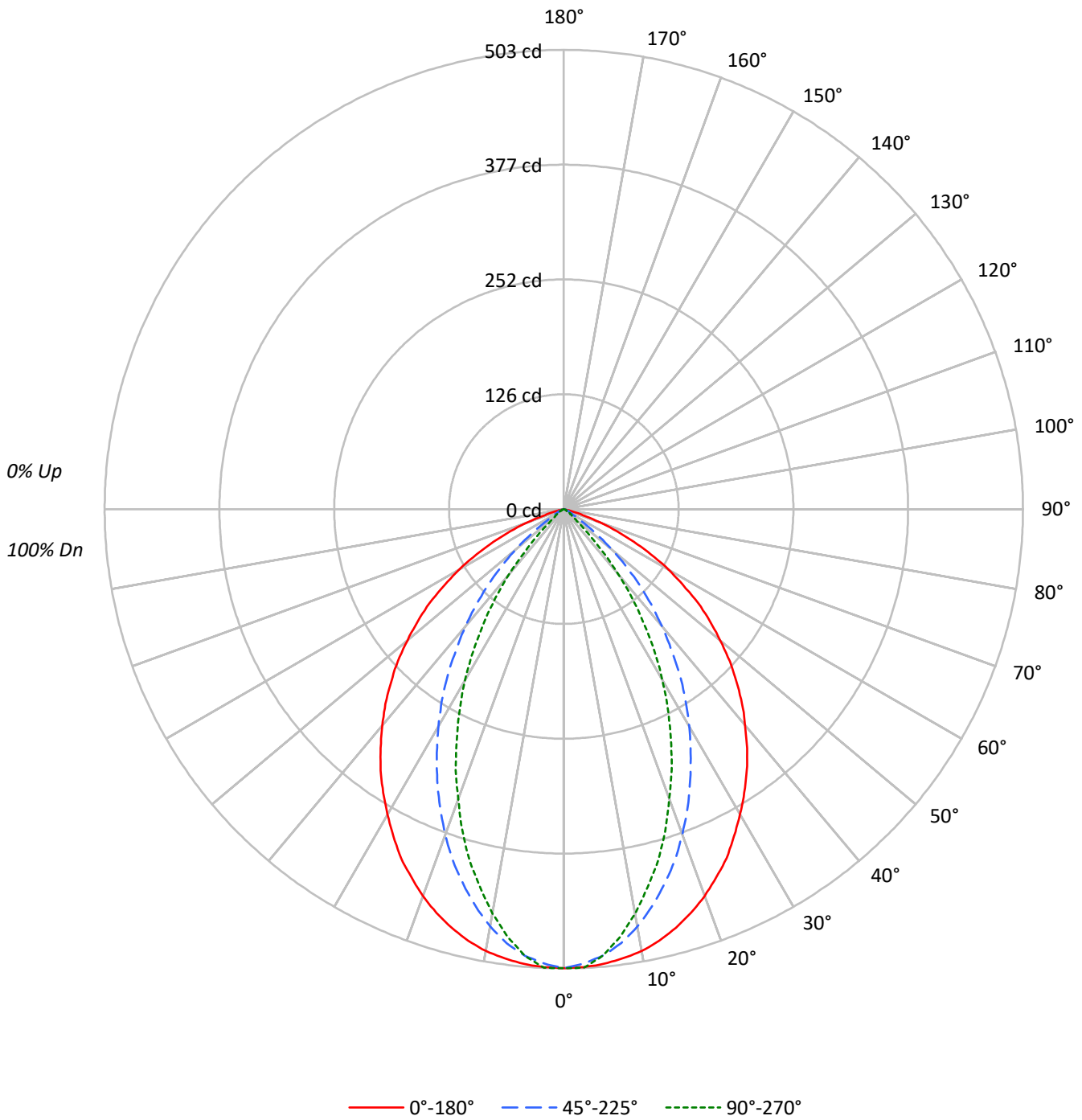
Lumens per Lamp: N/A
Luminaire Lumens: 649.6 lumens
Efficiency: N/A
Efficacy: 33.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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									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	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°	3462	3462	3462
5°	3456	3393	3393
10°	3436	3246	3144
15°	3385	3031	2842
20°	3305	2780	2474
25°	3205	2490	2107
30°	3070	2183	1719
35°	2939	1863	1288
40°	2778	1503	835
45°	2603	1136	361
50°	2394	725	135
55°	2158	318	96
60°	1827	136	63
65°	1383	86	33
70°	841	40	14
75°	176	19	19
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2603 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	7.1
10°-20°	120.8	18.6
20°-30°	155.1	23.9
30°-40°	146.0	22.5
40°-50°	102.1	15.7
50°-60°	54.5	8.4
60°-70°	21.8	3.3
70°-80°	2.8	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°	322.3	49.6
0°-40°	468.3	72.1
0°-60°	625.0	96.2
0°-90°	649.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	503	503	503	503	503	
5°	500	499	491	492	491	47
15°	475	460	425	405	399	134
25°	422	385	328	292	277	194
35°	350	294	222	171	153	218
45°	267	200	117	56	37	206
55°	180	110	26	9	8	159
65°	85	34	5	3	2	84
75°	7	2	1	1	1	13
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°	502.8	502.8	502.8	502.8	502.8
2.5°	502.1	502.8	498.2	502.1	502.8
5°	500.1	498.8	490.9	492.2	490.9
7.5°	496.2	492.9	479.6	474.9	472.3
10°	491.5	484.2	464.3	454.4	449.7
12.5°	484.2	473.6	445.8	430.5	423.9
15°	474.9	459.7	425.2	405.3	398.7
17.5°	463.7	443.8	404.0	379.4	369.5
20°	451.1	424.5	379.4	350.2	337.6
22.5°	436.5	406.0	354.2	321.7	309.1
25°	421.9	384.7	327.7	291.9	277.3
27.5°	404.0	362.8	301.1	262.7	246.8
30°	386.1	340.9	274.6	232.8	216.2
32.5°	368.1	317.7	248.1	201.7	185.1
35°	349.6	293.9	221.6	171.1	153.2
37.5°	329.7	270.0	193.0	142.0	123.4
40°	309.1	246.8	167.2	113.4	92.9
42.5°	289.2	223.5	141.3	85.6	63.0
45°	267.3	200.3	116.7	56.4	37.1
47.5°	246.8	177.8	91.5	32.5	19.2
50°	223.5	154.6	67.7	17.2	12.6
52.5°	201.7	132.0	45.1	11.3	9.9
55°	179.8	110.1	26.5	9.3	8.0
57.5°	154.6	88.9	14.6	7.3	6.0
60°	132.7	69.6	9.9	5.3	4.6
62.5°	107.5	51.1	7.3	4.0	3.3
65°	84.9	33.8	5.3	2.7	2.0
67.5°	63.0	19.9	3.3	1.3	1.3
70°	41.8	10.6	2.0	0.7	0.7
72.5°	21.9	4.6	1.3	0.7	0.7
75°	6.6	2.0	0.7	0.7	0.7
77.5°	0.0	0.7	0.0	0.0	0.7
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)