

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: P1061740

Luminaire Tested: S125RDR-S610D940-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061740
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-S610D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

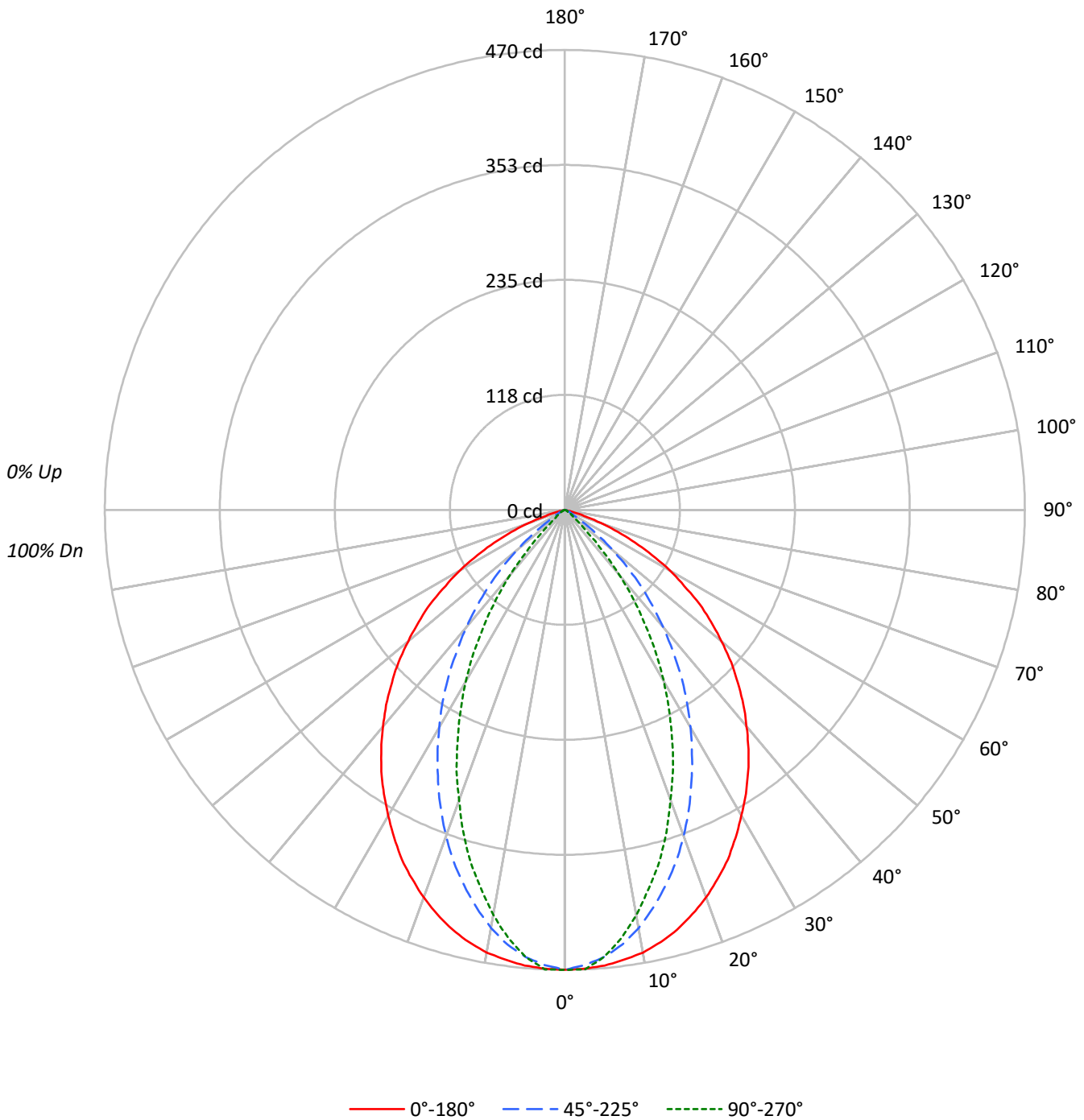
Lumens per Lamp: N/A
Luminaire Lumens: 607.1 lumens
Efficiency: N/A
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91				91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82				82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66				66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54				54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46				46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3236	3236	3236
5°	3231	3171	3171
10°	3212	3034	2939
15°	3164	2833	2656
20°	3089	2598	2312
25°	2996	2327	1969
30°	2869	2041	1607
35°	2746	1741	1204
40°	2597	1404	780
45°	2433	1062	338
50°	2238	677	126
55°	2017	298	89
60°	1708	128	59
65°	1294	81	31
70°	787	38	12
75°	165	16	16
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2433 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	7.1
10°-20°	112.9	18.6
20°-30°	145.0	23.9
30°-40°	136.5	22.5
40°-50°	95.4	15.7
50°-60°	51.0	8.4
60°-70°	20.3	3.3
70°-80°	2.6	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°	301.3	49.6
0°-40°	437.8	72.1
0°-60°	584.2	96.2
0°-90°	607.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	607.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	470	470	470	470	470	
5°	468	466	459	460	459	44
15°	444	430	397	379	373	125
25°	394	360	306	273	259	181
35°	327	275	207	160	143	204
45°	250	187	109	53	35	193
55°	168	103	25	9	7	149
65°	79	32	5	2	2	79
75°	6	2	1	1	1	12
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°	470.0	470.0	470.0	470.0	470.0
2.5°	469.4	470.0	465.6	469.4	470.0
5°	467.5	466.3	458.8	460.1	458.8
7.5°	463.8	460.7	448.3	443.9	441.5
10°	459.4	452.6	434.0	424.7	420.4
12.5°	452.6	442.7	416.6	402.4	396.2
15°	443.9	429.7	397.4	378.8	372.6
17.5°	433.4	414.8	377.6	354.6	345.3
20°	421.6	396.8	354.6	327.4	315.6
22.5°	408.0	379.4	331.1	300.7	288.9
25°	394.3	359.6	306.3	272.8	259.2
27.5°	377.6	339.1	281.5	245.5	230.6
30°	360.8	318.7	256.7	217.6	202.1
32.5°	344.1	297.0	231.9	188.5	173.0
35°	326.7	274.7	207.1	160.0	143.2
37.5°	308.1	252.3	180.4	132.7	115.3
40°	288.9	230.6	156.2	106.0	86.8
42.5°	270.3	208.9	132.1	80.0	58.9
45°	249.9	187.2	109.1	52.7	34.7
47.5°	230.6	166.2	85.6	30.4	18.0
50°	208.9	144.5	63.2	16.1	11.8
52.5°	188.5	123.4	42.2	10.5	9.3
55°	168.0	102.9	24.8	8.7	7.4
57.5°	144.5	83.1	13.6	6.8	5.6
60°	124.0	65.1	9.3	5.0	4.3
62.5°	100.4	47.7	6.8	3.7	3.1
65°	79.4	31.6	5.0	2.5	1.9
67.5°	58.9	18.6	3.1	1.2	1.2
70°	39.1	9.9	1.9	0.6	0.6
72.5°	20.5	4.3	1.2	0.6	0.6
75°	6.2	1.9	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)