

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: P1175426

Luminaire Tested: S125RDR-H610D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H610D940-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

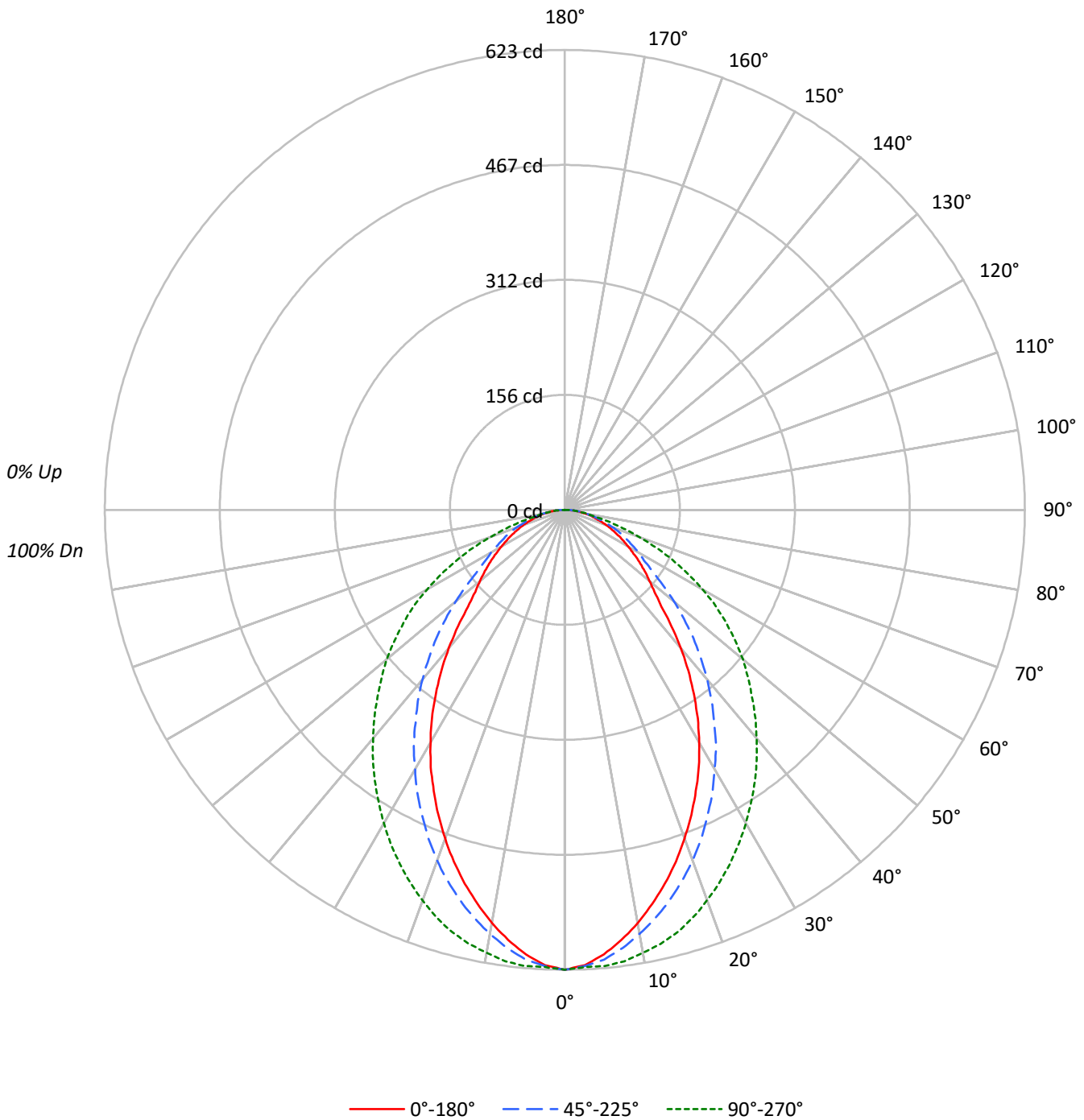
Lumens per Lamp: N/A
Luminaire Lumens: 1173.7 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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																		
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																												
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74																												
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64																												
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56																												
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50																												
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44																												
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40																												
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36																												
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33																												
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4290	4290	4290
5°	4178	4226	4287
10°	3975	4078	4259
15°	3736	3905	4218
20°	3472	3705	4127
25°	3190	3471	4018
30°	2893	3225	3897
35°	2560	2965	3770
40°	2196	2696	3631
45°	1802	2399	3492
50°	1604	2062	3371
55°	1479	1726	3199
60°	1362	1573	2963
65°	1266	1483	2620
70°	1182	1385	2140
75°	1112	1280	1604
80°	1047	1174	1154
85°	964	1169	964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3492 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	4.9
10°-20°	155.5	13.2
20°-30°	213.9	18.2
30°-40°	226.8	19.3
40°-50°	198.5	16.9
50°-60°	152.3	13.0
60°-70°	101.5	8.6
70°-80°	52.0	4.4
80°-90°	15.5	1.3
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°	427.0	36.4
0°-40°	653.8	55.7
0°-60°	1004.7	85.6
0°-90°	1173.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	604	612	611	616	620	57
15°	524	536	548	574	592	147
25°	420	434	457	496	529	193
35°	305	319	353	405	448	190
45°	185	200	246	308	359	146
55°	123	126	144	214	266	110
65°	78	78	91	120	161	77
75°	42	44	48	51	60	44
85°	12	14	15	14	12	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.0	623.0	623.0	623.0	623.0
2.5°	617.2	623.5	618.8	619.3	619.8
5°	604.5	612.4	611.4	615.6	620.3
7.5°	587.6	596.0	598.7	609.2	616.6
10°	568.5	578.0	583.3	599.2	609.2
12.5°	546.8	557.9	566.4	587.0	601.8
15°	524.1	536.3	547.9	573.8	591.8
17.5°	499.8	511.9	527.3	556.9	578.6
20°	473.9	487.1	505.6	537.3	563.2
22.5°	447.4	461.2	482.3	517.2	546.8
25°	419.9	434.2	456.9	495.5	528.9
27.5°	392.9	406.2	432.6	473.9	510.3
30°	363.9	377.6	405.6	451.1	490.2
32.5°	334.8	348.5	380.8	428.4	469.6
35°	304.6	318.9	352.7	404.6	448.5
37.5°	274.5	289.3	326.8	380.2	426.8
40°	244.3	260.2	299.9	355.9	404.0
42.5°	213.7	230.6	272.4	332.1	381.8
45°	185.1	200.4	246.4	307.8	358.6
47.5°	164.5	173.5	218.9	282.9	336.3
50°	149.7	153.9	192.5	259.1	314.7
52.5°	136.4	139.1	166.6	236.9	290.9
55°	123.2	125.9	143.8	213.7	266.5
57.5°	110.5	112.1	126.9	190.4	242.2
60°	98.9	100.0	114.2	167.1	215.2
62.5°	88.3	88.8	102.1	143.3	188.3
65°	77.7	78.3	91.0	119.5	160.8
67.5°	68.2	68.2	80.4	97.8	134.3
70°	58.7	58.7	68.8	79.3	106.3
72.5°	50.2	51.3	58.2	64.0	83.0
75°	41.8	44.4	48.1	50.8	60.3
77.5°	33.8	37.0	38.6	39.7	40.2
80°	26.4	28.6	29.6	30.1	29.1
82.5°	19.6	21.2	21.7	21.7	20.1
85°	12.2	13.8	14.8	14.3	12.2
87.5°	5.8	7.9	8.5	7.4	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)