

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: P1175427

Luminaire Tested: S125RDR-H610D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175427
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-H610D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

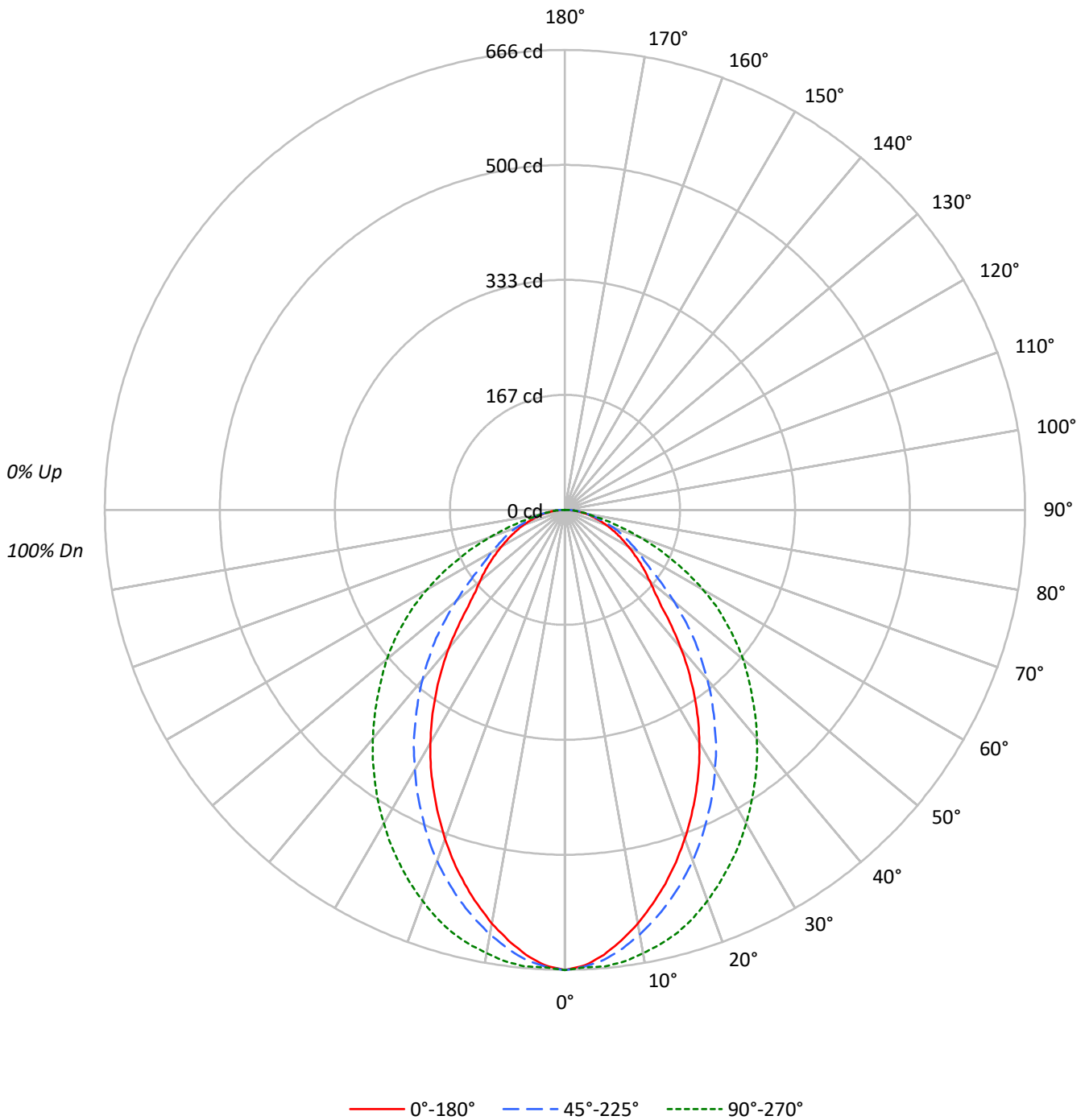
Lumens per Lamp: N/A
Luminaire Lumens: 1255.7 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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									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°	4589	4589	4589
5°	4470	4521	4587
10°	4252	4363	4557
15°	3997	4179	4513
20°	3715	3963	4415
25°	3413	3713	4298
30°	3095	3450	4170
35°	2739	3172	4033
40°	2349	2883	3886
45°	1928	2568	3735
50°	1715	2206	3606
55°	1582	1847	3424
60°	1457	1683	3171
65°	1355	1585	2802
70°	1264	1482	2289
75°	1189	1370	1716
80°	1122	1257	1233
85°	1027	1248	1027

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3735 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	4.9
10°-20°	166.3	13.2
20°-30°	228.8	18.2
30°-40°	242.7	19.3
40°-50°	212.4	16.9
50°-60°	163.0	13.0
60°-70°	108.6	8.6
70°-80°	55.7	4.4
80°-90°	16.5	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°	456.8	36.4
0°-40°	699.5	55.7
0°-60°	1074.9	85.6
0°-90°	1255.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1255.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	647	655	654	659	664	61
15°	561	574	586	614	633	157
25°	449	464	489	530	566	206
35°	326	341	377	433	480	203
45°	198	214	264	329	384	156
55°	132	135	154	229	285	118
65°	83	84	97	128	172	83
75°	45	48	52	54	64	48
85°	13	15	16	15	13	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	666.5	666.5	666.5	666.5	666.5
2.5°	660.3	667.1	662.0	662.5	663.1
5°	646.7	655.2	654.1	658.6	663.7
7.5°	628.6	637.7	640.5	651.8	659.7
10°	608.2	618.4	624.1	641.0	651.8
12.5°	585.0	596.9	606.0	628.0	643.9
15°	560.7	573.7	586.2	613.9	633.1
17.5°	534.7	547.7	564.1	595.8	619.0
20°	507.0	521.1	540.9	574.8	602.6
22.5°	478.7	493.4	516.0	553.3	585.0
25°	449.2	464.5	488.8	530.1	565.8
27.5°	420.4	434.5	462.8	507.0	546.0
30°	389.3	404.0	434.0	482.6	524.5
32.5°	358.1	372.9	407.4	458.3	502.4
35°	325.9	341.2	377.4	432.8	479.8
37.5°	293.6	309.5	349.7	406.8	456.6
40°	261.4	278.4	320.8	380.8	432.3
42.5°	228.6	246.7	291.4	355.3	408.5
45°	198.0	214.4	263.7	329.3	383.6
47.5°	176.0	185.6	234.2	302.7	359.8
50°	160.1	164.6	205.9	277.2	336.6
52.5°	146.0	148.8	178.2	253.5	311.2
55°	131.8	134.7	153.9	228.6	285.2
57.5°	118.3	119.9	135.8	203.7	259.1
60°	105.8	106.9	122.2	178.8	230.3
62.5°	94.5	95.1	109.2	153.3	201.4
65°	83.2	83.7	97.3	127.9	172.0
67.5°	73.0	73.0	86.0	104.7	143.7
70°	62.8	62.8	73.6	84.9	113.7
72.5°	53.8	54.9	62.2	68.5	88.8
75°	44.7	47.5	51.5	54.3	64.5
77.5°	36.2	39.6	41.3	42.4	43.0
80°	28.3	30.6	31.7	32.3	31.1
82.5°	20.9	22.6	23.2	23.2	21.5
85°	13.0	14.7	15.8	15.3	13.0
87.5°	6.2	8.5	9.1	7.9	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)