

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: P1175424

Luminaire Tested: S125RDR-H610D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175424
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-H610D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

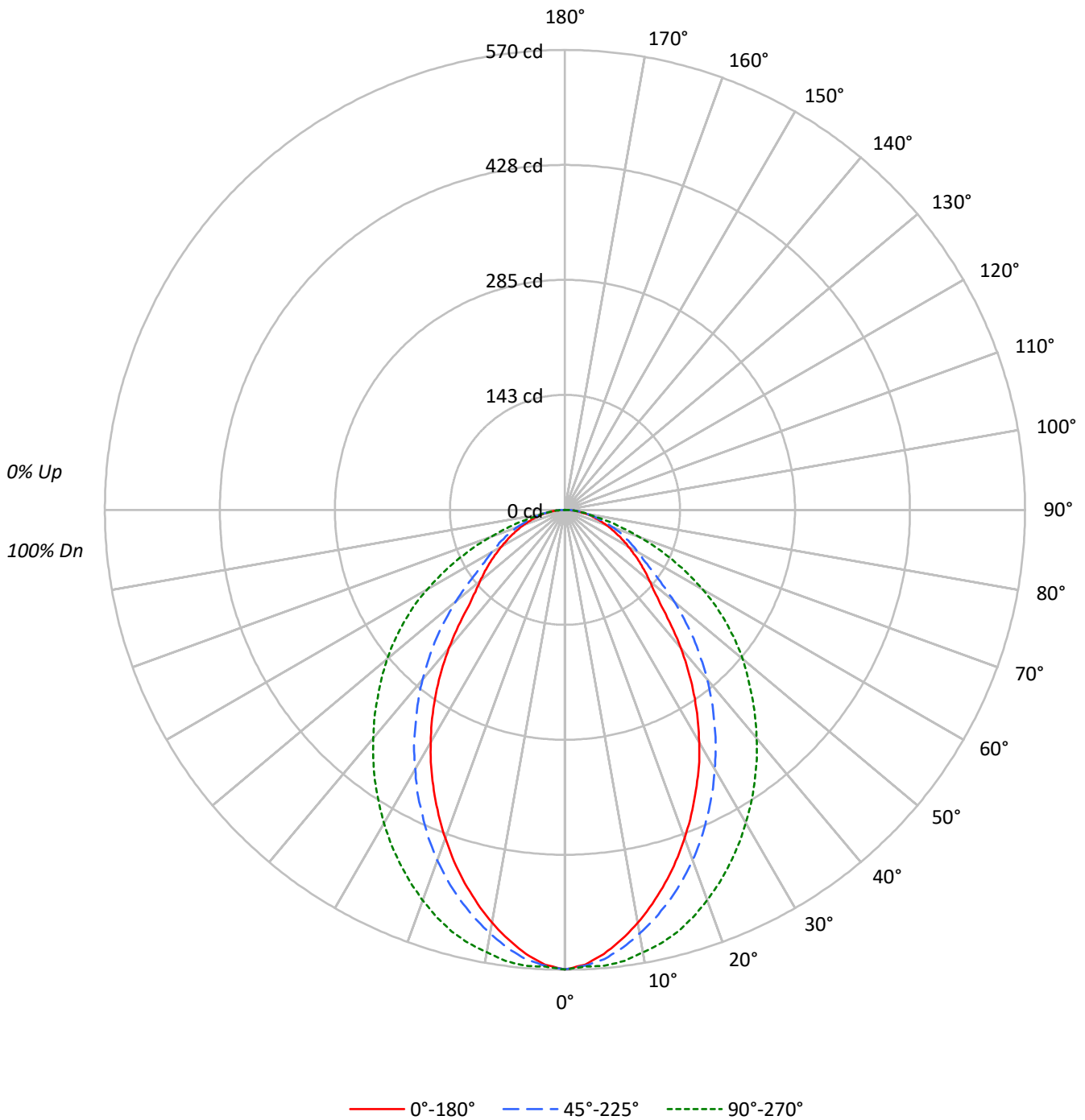
Lumens per Lamp: N/A
Luminaire Lumens: 1073.1 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3922	3922	3922
5°	3820	3864	3920
10°	3634	3729	3894
15°	3416	3570	3857
20°	3174	3387	3773
25°	2916	3174	3673
30°	2645	2949	3563
35°	2341	2711	3446
40°	2008	2465	3320
45°	1648	2194	3192
50°	1465	1885	3082
55°	1353	1579	2925
60°	1245	1438	2710
65°	1158	1355	2395
70°	1081	1266	1957
75°	1016	1171	1466
80°	960	1075	1055
85°	877	1066	877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3192 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	4.9
10°-20°	142.1	13.2
20°-30°	195.5	18.2
30°-40°	207.4	19.3
40°-50°	181.5	16.9
50°-60°	139.3	13.0
60°-70°	92.8	8.6
70°-80°	47.6	4.4
80°-90°	14.1	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°	390.4	36.4
0°-40°	597.8	55.7
0°-60°	918.6	85.6
0°-90°	1073.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	553	560	559	563	567	52
15°	479	490	501	525	541	134
25°	384	397	418	453	484	176
35°	278	292	322	370	410	174
45°	169	183	225	281	328	134
55°	113	115	132	195	244	101
65°	71	72	83	109	147	71
75°	38	41	44	46	55	41
85°	11	13	14	13	11	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	569.6	569.6	569.6	569.6	569.6
2.5°	564.3	570.1	565.7	566.2	566.7
5°	552.7	559.9	559.0	562.8	567.2
7.5°	537.2	544.9	547.4	557.0	563.8
10°	519.8	528.5	533.3	547.8	557.0
12.5°	500.0	510.1	517.9	536.7	550.3
15°	479.2	490.3	500.9	524.6	541.1
17.5°	456.9	468.1	482.1	509.2	529.0
20°	433.2	445.3	462.3	491.3	515.0
22.5°	409.1	421.6	441.0	472.9	500.0
25°	383.9	397.0	417.8	453.1	483.5
27.5°	359.3	371.4	395.5	433.2	466.6
30°	332.7	345.2	370.9	412.5	448.2
32.5°	306.1	318.6	348.1	391.7	429.4
35°	278.5	291.6	322.5	369.9	410.0
37.5°	251.0	264.5	298.8	347.7	390.2
40°	223.4	237.9	274.2	325.4	369.4
42.5°	195.3	210.8	249.0	303.7	349.1
45°	169.2	183.3	225.3	281.4	327.8
47.5°	150.4	158.6	200.2	258.7	307.5
50°	136.8	140.7	176.0	236.9	287.7
52.5°	124.8	127.2	152.3	216.6	265.9
55°	112.7	115.1	131.5	195.3	243.7
57.5°	101.1	102.5	116.0	174.1	221.5
60°	90.4	91.4	104.4	152.8	196.8
62.5°	80.8	81.2	93.3	131.0	172.1
65°	71.1	71.6	83.2	109.3	147.0
67.5°	62.4	62.4	73.5	89.5	122.8
70°	53.7	53.7	62.9	72.5	97.2
72.5°	45.9	46.9	53.2	58.5	75.9
75°	38.2	40.6	44.0	46.4	55.1
77.5°	30.9	33.8	35.3	36.3	36.7
80°	24.2	26.1	27.1	27.6	26.6
82.5°	17.9	19.3	19.8	19.8	18.4
85°	11.1	12.6	13.5	13.1	11.1
87.5°	5.3	7.3	7.7	6.8	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)