

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: P1175423

Luminaire Tested: S125RDR-H610D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175423
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-H610D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

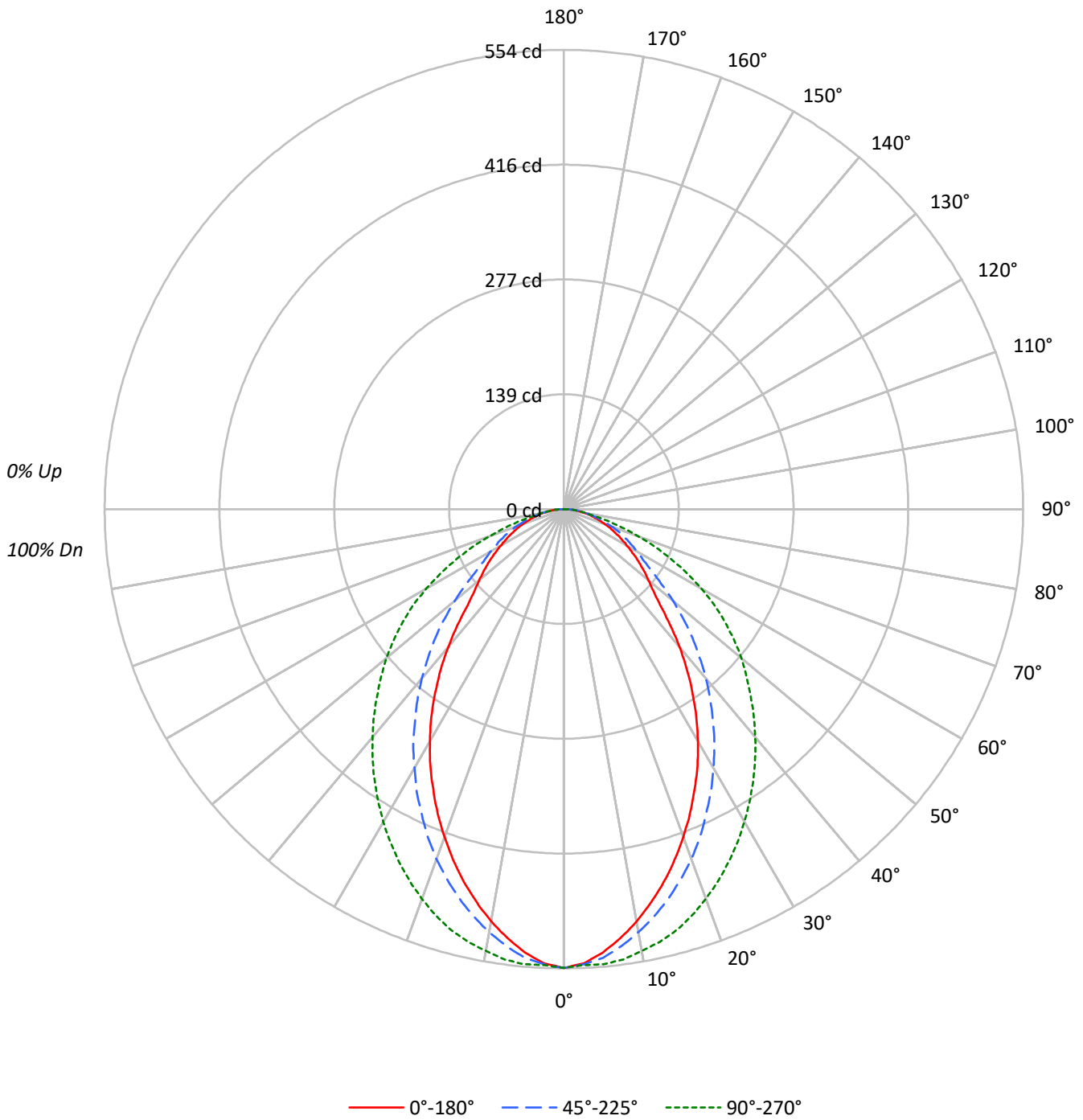
Lumens per Lamp: N/A
Luminaire Lumens: 1042.7 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	3811	3811	3811
5°	3711	3754	3809
10°	3531	3623	3784
15°	3319	3469	3747
20°	3085	3291	3666
25°	2834	3084	3569
30°	2570	2865	3462
35°	2274	2634	3349
40°	1951	2394	3226
45°	1601	2131	3101
50°	1425	1832	2994
55°	1314	1534	2843
60°	1210	1398	2633
65°	1126	1316	2326
70°	1051	1230	1900
75°	987	1139	1426
80°	932	1043	1023
85°	853	1043	853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3101 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	4.9
10°-20°	138.1	13.2
20°-30°	190.0	18.2
30°-40°	201.5	19.3
40°-50°	176.4	16.9
50°-60°	135.3	13.0
60°-70°	90.2	8.6
70°-80°	46.2	4.4
80°-90°	13.7	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°	379.3	36.4
0°-40°	580.9	55.7
0°-60°	892.6	85.6
0°-90°	1042.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	554	554	554	554	554	
5°	537	544	543	547	551	50
15°	466	476	487	510	526	130
25°	373	386	406	440	470	171
35°	271	283	313	359	398	169
45°	164	178	219	273	318	130
55°	110	112	128	190	237	98
65°	69	70	81	106	143	69
75°	37	40	43	45	54	39
85°	11	12	13	13	11	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	553.5	553.5	553.5	553.5	553.5
2.5°	548.3	553.9	549.7	550.2	550.6
5°	537.0	544.1	543.1	546.9	551.1
7.5°	522.0	529.5	531.8	541.2	547.8
10°	505.1	513.5	518.2	532.3	541.2
12.5°	485.8	495.7	503.2	521.5	534.7
15°	465.6	476.4	486.7	509.8	525.7
17.5°	444.0	454.8	468.4	494.7	514.0
20°	421.0	432.7	449.2	477.3	500.4
22.5°	397.5	409.7	428.5	459.5	485.8
25°	373.0	385.7	405.9	440.2	469.8
27.5°	349.1	360.8	384.3	421.0	453.4
30°	323.2	335.5	360.4	400.8	435.5
32.5°	297.4	309.6	338.3	380.6	417.2
35°	270.6	283.3	313.4	359.4	398.4
37.5°	243.8	257.0	290.4	337.8	379.1
40°	217.1	231.2	266.4	316.2	358.9
42.5°	189.8	204.8	242.0	295.0	339.2
45°	164.4	178.1	218.9	273.4	318.5
47.5°	146.1	154.1	194.5	251.4	298.8
50°	133.0	136.7	171.0	230.2	279.5
52.5°	121.2	123.6	148.0	210.5	258.4
55°	109.5	111.8	127.8	189.8	236.8
57.5°	98.2	99.6	112.8	169.1	215.2
60°	87.9	88.8	101.5	148.5	191.2
62.5°	78.5	78.9	90.7	127.3	167.3
65°	69.1	69.5	80.8	106.2	142.8
67.5°	60.6	60.6	71.4	86.9	119.3
70°	52.2	52.2	61.1	70.5	94.4
72.5°	44.6	45.6	51.7	56.8	73.8
75°	37.1	39.5	42.8	45.1	53.6
77.5°	30.1	32.9	34.3	35.2	35.7
80°	23.5	25.4	26.3	26.8	25.8
82.5°	17.4	18.8	19.3	19.3	17.9
85°	10.8	12.2	13.2	12.7	10.8
87.5°	5.2	7.0	7.5	6.6	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)