

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: P1061745

Luminaire Tested: S125RDR-S610D940-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D940-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

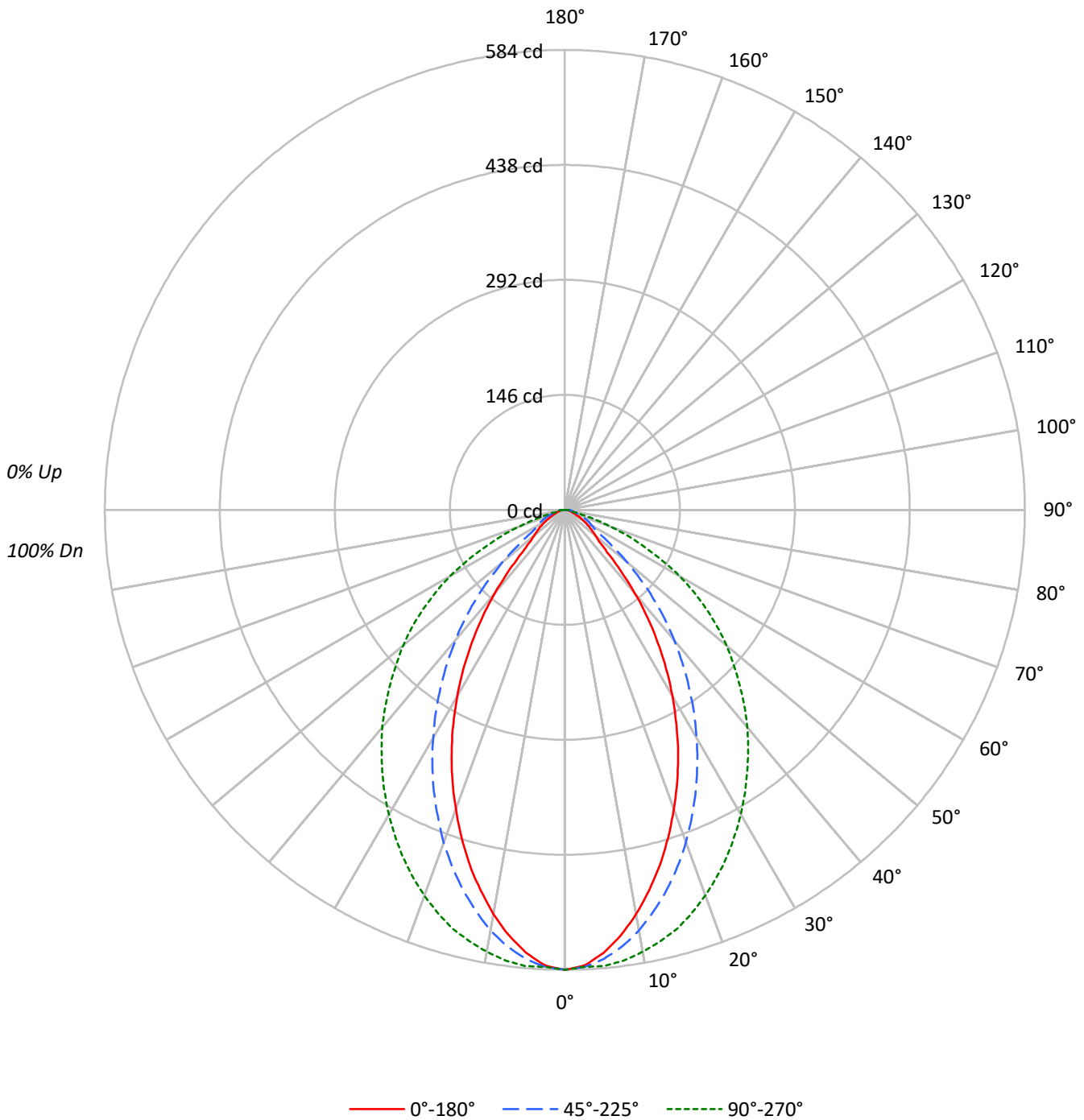
Lumens per Lamp: N/A
Luminaire Lumens: 845.9 lumens
Efficiency: N/A
Efficacy: 43.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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																		
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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89																												
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																												
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																												
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62																												
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56																												
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																												
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																												
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																												
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39																												
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4021	4021	4021
5°	3903	3955	4019
10°	3645	3792	3983
15°	3327	3561	3924
20°	2965	3292	3820
25°	2584	2989	3696
30°	2171	2659	3552
35°	1726	2311	3396
40°	1244	1941	3241
45°	737	1540	3052
50°	545	1097	2872
55°	462	678	2630
60°	376	547	2316
65°	293	505	1830
70°	250	437	1224
75°	231	380	495
80°	246	393	345
85°	292	585	395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3052 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	6.4
10°-20°	141.4	16.7
20°-30°	184.8	21.8
30°-40°	180.0	21.3
40°-50°	135.0	16.0
50°-60°	84.6	10.0
60°-70°	44.1	5.2
70°-80°	15.9	1.9
80°-90°	6.3	0.7
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°	379.9	44.9
0°-40°	559.9	66.2
0°-60°	779.5	92.2
0°-90°	845.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	845.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	565	572	572	576	582	53
15°	467	480	500	531	550	130
25°	340	359	393	447	486	155
35°	205	227	275	348	404	128
45°	76	98	158	244	313	64
55°	38	40	56	148	219	34
65°	18	19	31	60	112	19
75°	9	12	14	15	19	9
85°	4	6	7	7	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	584.0	584.0	584.0	584.0	584.0
2.5°	579.0	584.6	580.9	580.9	580.9
5°	564.7	572.2	572.2	576.5	581.5
7.5°	544.9	553.6	559.1	569.7	577.1
10°	521.3	531.8	542.4	559.8	569.7
12.5°	494.6	507.0	521.9	546.1	561.0
15°	466.7	480.3	499.6	530.6	550.5
17.5°	436.3	452.4	475.4	512.6	536.8
20°	404.6	420.8	449.3	491.5	521.3
22.5°	373.0	390.3	421.4	469.2	504.5
25°	340.1	358.7	393.4	446.8	486.5
27.5°	306.6	325.8	364.3	423.9	466.7
30°	273.1	292.9	334.5	399.0	446.8
32.5°	239.5	260.6	304.7	373.6	425.7
35°	205.4	227.1	274.9	348.1	404.0
37.5°	172.5	194.2	245.1	322.1	382.3
40°	138.4	162.0	216.0	296.0	360.6
42.5°	104.9	129.1	186.8	270.0	337.0
45°	75.7	98.1	158.2	244.5	313.4
47.5°	58.3	70.7	129.1	218.4	290.4
50°	50.9	54.6	102.4	194.2	268.1
52.5°	44.1	46.5	77.0	171.9	243.9
55°	38.5	40.3	56.5	147.7	219.1
57.5°	32.3	34.8	44.7	124.1	193.6
60°	27.3	28.5	39.7	102.4	168.2
62.5°	22.3	23.6	35.4	80.7	139.6
65°	18.0	19.2	31.0	59.6	112.3
67.5°	14.9	15.5	26.1	42.2	86.3
70°	12.4	13.0	21.7	29.2	60.8
72.5°	10.5	12.4	17.4	21.1	38.5
75°	8.7	11.8	14.3	14.9	18.6
77.5°	7.4	11.2	11.8	11.8	10.5
80°	6.2	9.3	9.9	9.3	8.7
82.5°	5.0	7.4	8.1	8.1	6.8
85°	3.7	6.2	7.4	6.8	5.0
87.5°	2.5	5.6	6.2	5.6	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)