

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: P1061756

Luminaire Tested: S125RDR-S610D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D950-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

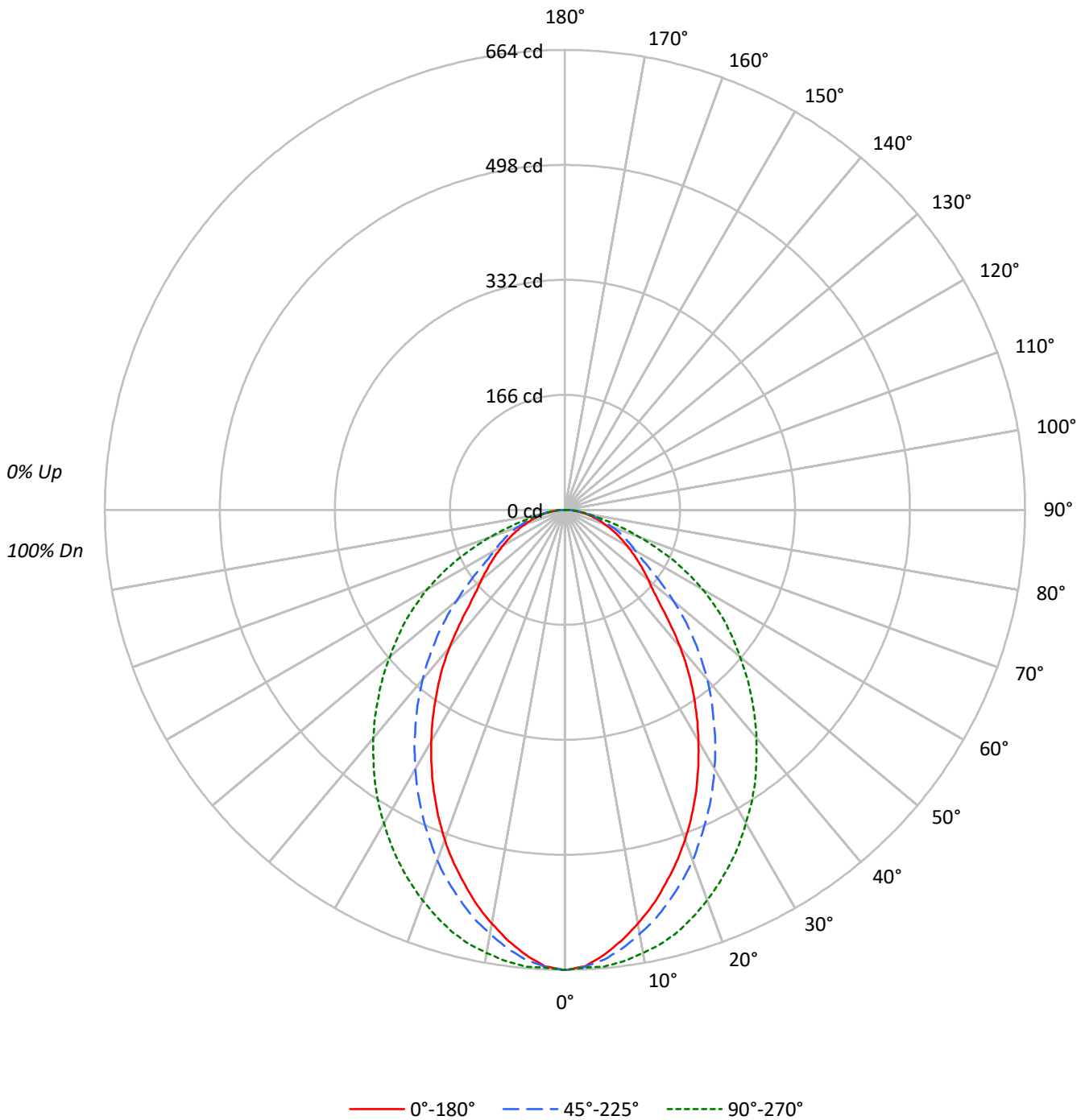
Lumens per Lamp: N/A
Luminaire Lumens: 1245.4 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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	
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	74	69	77	72	68	74	70	66				64	
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46				44	
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42				40	
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38				36	
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35				33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32				30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4574	4574	4574
5°	4459	4504	4573
10°	4241	4348	4542
15°	3988	4163	4494
20°	3715	3949	4396
25°	3403	3696	4285
30°	3066	3430	4152
35°	2711	3152	4022
40°	2326	2869	3866
45°	1900	2552	3703
50°	1685	2189	3533
55°	1546	1816	3386
60°	1425	1608	3153
65°	1329	1546	2812
70°	1242	1470	2299
75°	1147	1378	1695
80°	1078	1289	1237
85°	995	1256	1051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3703 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	4.9
10°-20°	165.6	13.3
20°-30°	227.6	18.3
30°-40°	241.2	19.4
40°-50°	210.5	16.9
50°-60°	160.0	12.8
60°-70°	107.2	8.6
70°-80°	55.3	4.4
80°-90°	16.6	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°	454.7	36.5
0°-40°	695.9	55.9
0°-60°	1066.4	85.6
0°-90°	1245.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1245.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	645	652	652	656	662	60
15°	560	570	584	610	630	157
25°	448	462	486	527	564	205
35°	322	341	375	428	478	201
45°	195	214	262	324	380	154
55°	129	133	151	222	282	115
65°	82	84	95	127	173	81
75°	43	46	52	55	64	46
85°	13	16	16	15	13	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.3	664.3	664.3	664.3	664.3
2.5°	659.7	664.3	660.3	660.3	661.7
5°	645.1	651.7	651.7	656.4	661.7
7.5°	627.2	634.5	638.4	649.1	657.0
10°	606.6	614.6	621.9	637.8	649.7
12.5°	584.7	593.3	604.6	625.2	641.8
15°	559.5	570.1	584.0	609.9	630.5
17.5°	534.2	544.9	562.1	592.7	615.9
20°	507.0	518.3	538.9	572.1	600.0
22.5°	477.8	490.4	512.3	550.2	582.7
25°	448.0	461.9	486.5	526.9	564.1
27.5°	416.8	433.4	459.9	503.1	544.2
30°	385.6	402.2	431.4	478.5	522.3
32.5°	354.4	372.3	404.2	453.9	501.1
35°	322.5	341.1	375.0	428.1	478.5
37.5°	291.3	309.9	347.8	402.8	453.9
40°	258.8	278.1	319.2	377.0	430.1
42.5°	225.6	246.2	290.7	350.4	405.5
45°	195.1	214.4	262.1	324.5	380.3
47.5°	172.6	185.2	233.6	298.0	355.7
50°	157.3	163.9	204.4	272.1	329.8
52.5°	142.0	147.3	177.2	245.6	305.3
55°	128.8	132.7	151.3	222.3	282.1
57.5°	115.5	119.5	131.4	199.1	254.8
60°	103.5	106.8	116.8	174.5	229.0
62.5°	92.2	94.9	105.5	151.3	201.1
65°	81.6	83.6	94.9	126.8	172.6
67.5°	71.0	73.0	84.3	103.5	142.0
70°	61.7	62.4	73.0	84.3	114.2
72.5°	52.4	53.1	61.7	68.4	87.6
75°	43.1	45.8	51.8	55.1	63.7
77.5°	35.2	38.5	41.8	43.1	43.1
80°	27.2	31.2	32.5	32.5	31.2
82.5°	19.9	23.2	23.9	22.6	21.2
85°	12.6	15.9	15.9	14.6	13.3
87.5°	6.0	8.6	8.6	8.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)