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S251XX-MDWNC-TX-XX

Photometric Testing Report

Light efficiency:

62 Lumen/Watt

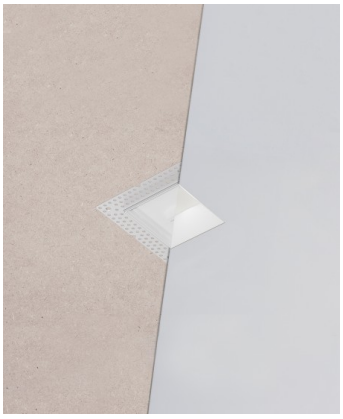
Color temperature:

3126 K

Light quality:

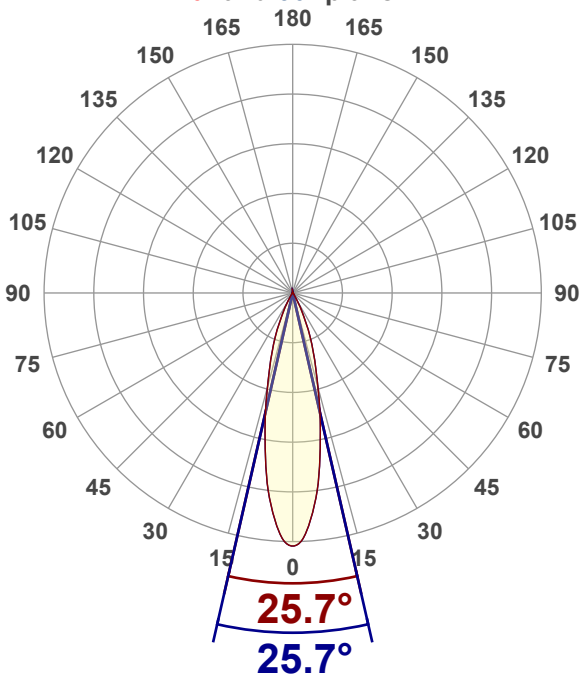
CRI:93.2, R_g:102.3, R_f:91.2
R9: 74.3 / P: 2 / V: - / F: 2

Output:	**1139 lm**
Peak:	**4452 cd**
Power:	**18.5 W**
Voltage:	**119 V**
Current:	**0.157 A**
PF:	**0.99**
THD:	**11.93 %**



Angular Distribution

0° and 90° plane



Product name:
S251XX-MDWNC-TX-XX

Test Date:
8/27/2026

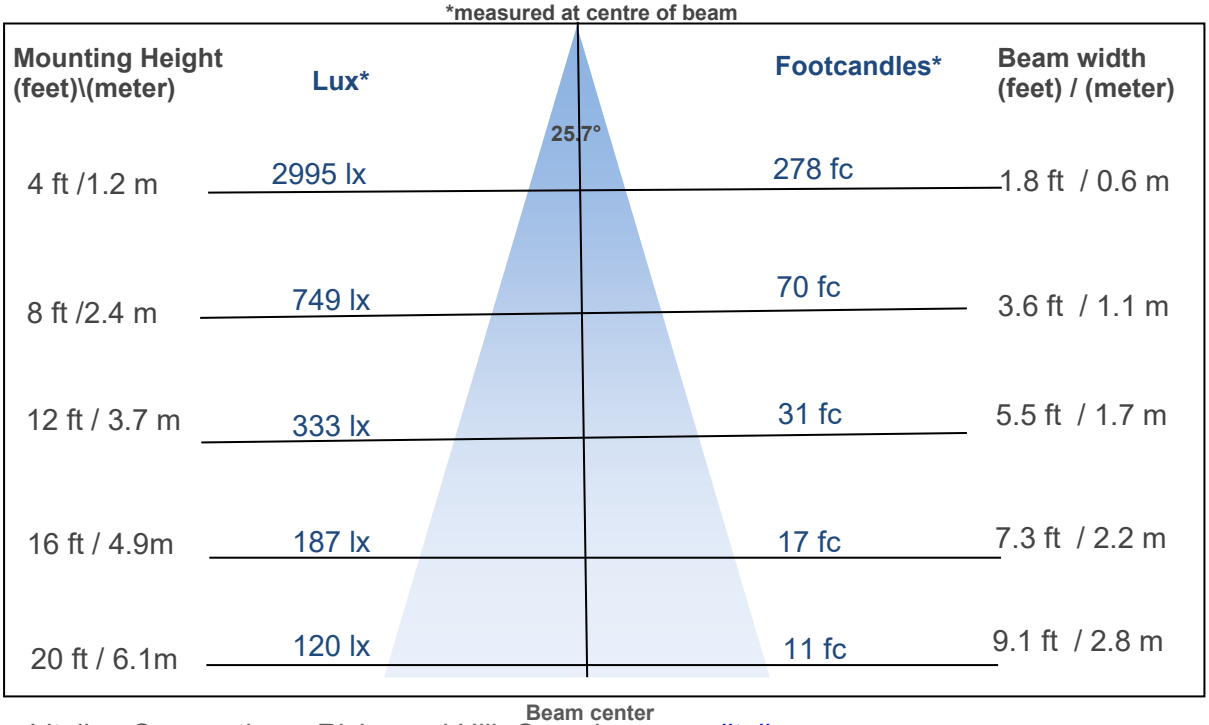
Beam Angle (50% of the brightness of the centre):
25.7°

Field Angle (10% of the brightness of the centre):
51.5°

Cut Off Angle (2.5% of the brightness of the centre):
63.3°

Beam Details

*measured at centre of beam



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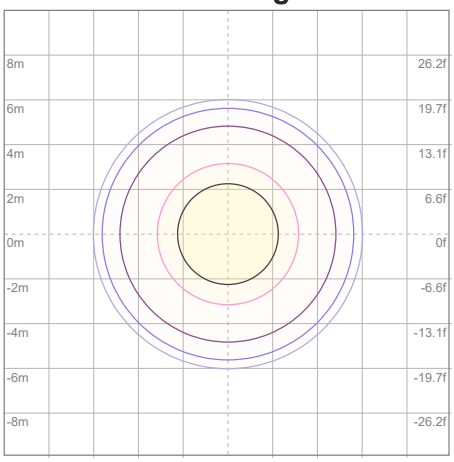
S251XX-MDWNC-TX-XX

Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	1077	94.56%
0-40	1114	97.81%
0-60	1132	99.39%
60-90	5.43	0.48%
70-100	1.58	0.14%
90-120	0.554	0.05%
0-90	1137	99.82%
90-180	1.78	0.16%
0-180	1139	100.00%

ISO Lux Diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	479 lx
3%	14.37 lx
5%	23.95 lx
10%	47.90 lx
30%	143.70 lx
50%	239.50 lx

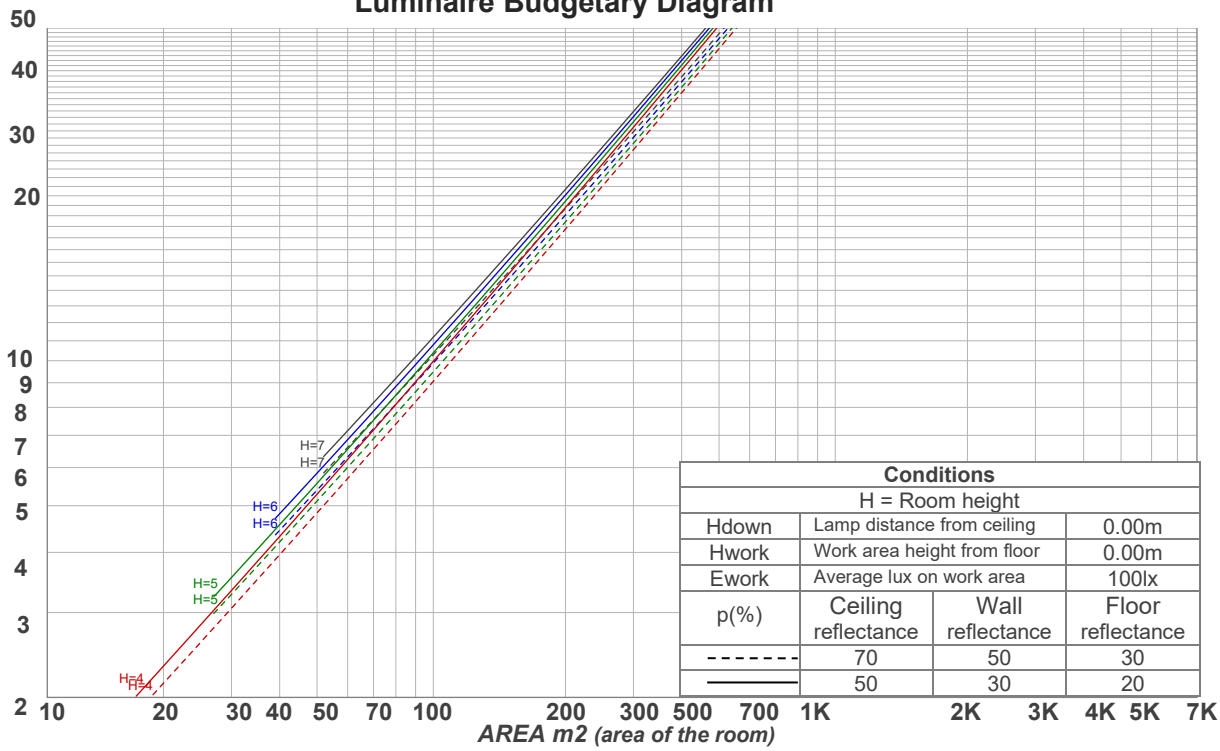
Conditions:
Number of planes: 8
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio)				Room Values are expressed as percentage of Lumens delivered to the task surface													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	85	82	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	86	82	79	85	82	79	84	81	79	83	80	78	77
8	91	84	80	77	90	84	80	77	83	79	76	82	78	76	81	78	76	75
9	88	81	77	74	88	81	77	74	80	76	74	79	76	74	79	76	73	72
10	86	79	75	72	85	79	74	72	78	74	72	77	74	71	77	73	71	70

Luminaire Budgetary Diagram

LAMPS (number of lamps)



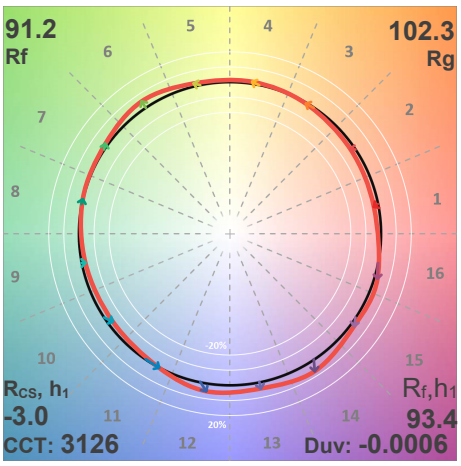
Conditions			
H = Room height			
Hdown	Lamp distance from ceiling		0.00m
Hwork	Work area height from floor		0.00m
Ework	Average lux on work area		100lx
p(%)	Ceiling reflectance	Wall reflectance	Floor reflectance
- - - - - - -	70	50	30
———	50	30	20

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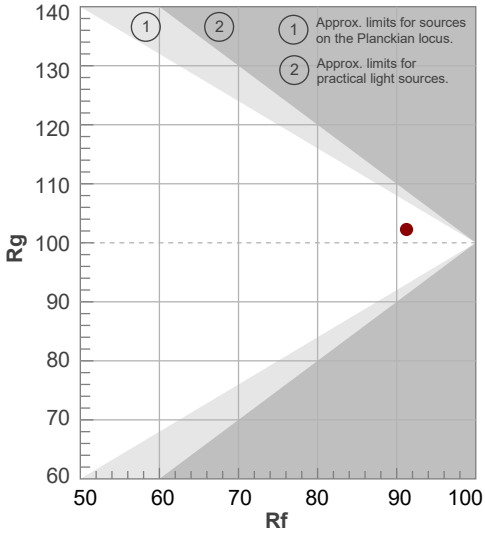
S251XX-MDWNC-TX-XX

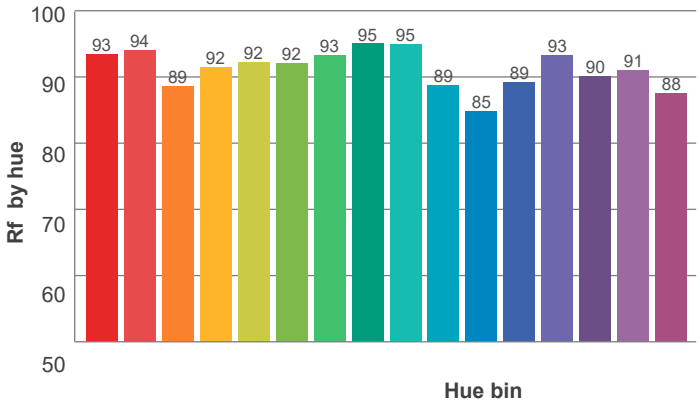
Photometric Testing Report

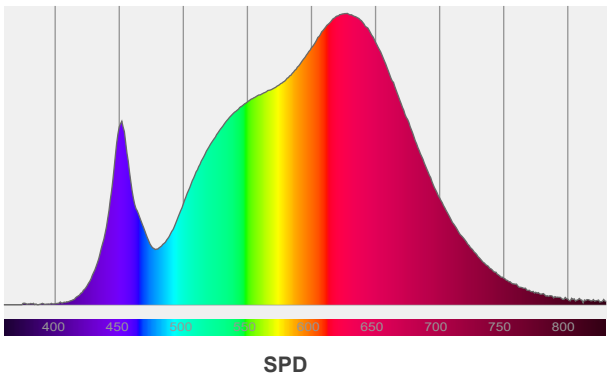
ANSI/IES TM-30-18 P: **2** / V: **-** / F: **2**

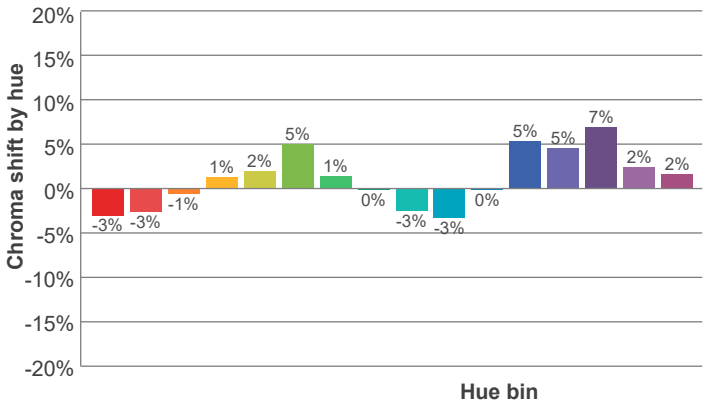


Hue Bin	R_f	Shifts (%) Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	-1%	6%
4	92	1%	5%
5	92	2%	4%
6	92	5%	0%
7	93	1%	-4%
8	95	0%	-3%
9	95	-3%	0%
10	89	-3%	6%
11	85	0%	10%
12	89	5%	5%
13	93	5%	0%
14	90	7%	-4%
15	91	2%	-5%
16	88	2%	-10%









Red: 39.4%, Power=12.8mW

Blue: 8%, Power=5.6mW

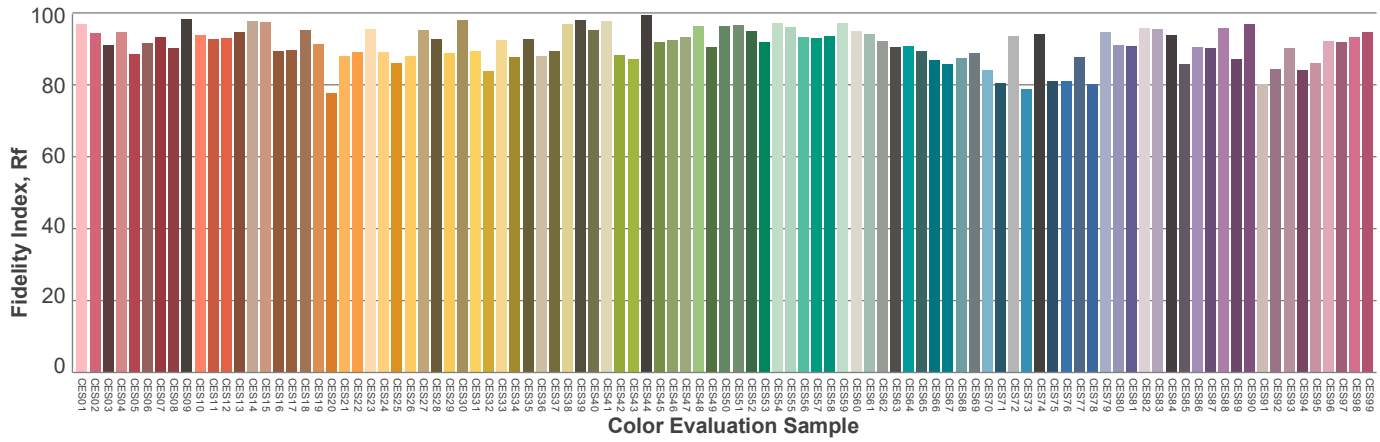
Green: 24.4%, Power=14.7mW

UVA: 0%, Power=0.1mW

Dominant Wavelength:583nm

1st Peak Wavelength: 628nm

2nd Peak Wavelength:452nm



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Glare Evaluation According to UGR

Corrected, comprehensive UGR table according to 117-1995, S/H ratio=0.25

p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size H = mouting height above eye level X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	13.0	13.4	13.1	13.6	13.8	13.0	13.4	13.1	13.6	13.8
	3H	12.9	13.5	13.3	13.7	13.9	12.9	13.5	13.3	13.7	13.9
	4H	12.9	13.5	13.3	13.7	13.9	12.9	13.5	13.3	13.7	13.9
	6H	12.9	13.4	13.2	13.7	14.0	12.9	13.4	13.2	13.7	14.0
	8H	12.9	13.3	13.2	13.6	14.0	12.9	13.3	13.2	13.6	14.0
	12H	12.8	13.2	13.1	13.6	14.0	12.8	13.2	13.1	13.6	14.0
4H	2H	12.8	13.4	13.2	13.6	13.9	12.8	13.4	13.2	13.6	13.9
	3H	13.0	13.4	13.3	13.8	14.2	13.0	13.4	13.3	13.8	14.2
	4H	12.9	13.3	13.3	13.8	14.3	12.9	13.3	13.3	13.8	14.3
	6H	12.9	13.3	13.4	13.7	14.0	12.9	13.3	13.4	13.7	14.0
	8H	12.8	13.3	13.3	13.6	14.0	12.8	13.3	13.3	13.6	14.0
	12H	12.8	13.1	13.3	13.5	14.0	12.8	13.1	13.3	13.5	14.0
8H	4H	12.8	13.2	13.3	13.6	13.9	12.8	13.2	13.3	13.6	13.9
	6H	12.8	13.1	13.3	13.5	14.1	12.8	13.1	13.3	13.5	14.1
	8H	12.8	13.0	13.3	13.5	14.2	12.8	13.0	13.3	13.5	14.2
	12H	12.8	12.9	13.4	13.5	14.1	12.8	12.9	13.4	13.5	14.1
12H	4H	12.7	13.1	13.2	13.5	13.9	12.7	13.1	13.2	13.5	13.9
	6H	12.8	13.0	13.3	13.5	14.1	12.8	13.0	13.3	13.5	14.1
	8H	12.7	12.9	13.3	13.4	14.0	12.7	12.9	13.3	13.4	14.0

Variation of the observer position for the luminaire distance S		
S = 1.0H	5.0 / -3.0	5.0 / -3.0
S = 1.5H	7.5 / -3.6	7.5 / -3.6
S = 2.0H	9.4 / -6.0	9.4 / -6.0

Corrected glare indices referring to 1139 lm total luminous flux