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S251XX-MDWWC-TX-XX

Photometric Testing Report

Light efficiency:

58 Lumen/Watt

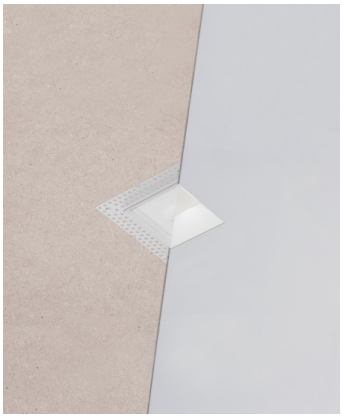
Color temperature:

3168 K

Light quality:

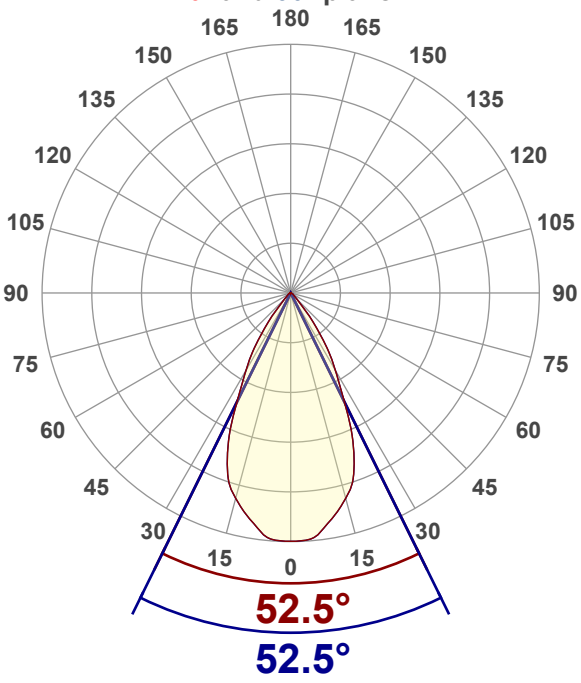
CRI:93.1, R_g:101.9, R_f:91.2
R9: 73.1 / P: 2 / V: - / F: 2

Output:	**1067 lm**
Peak:	**1383 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-MDWWC-TX-XX

Test Date:
8/27/2026

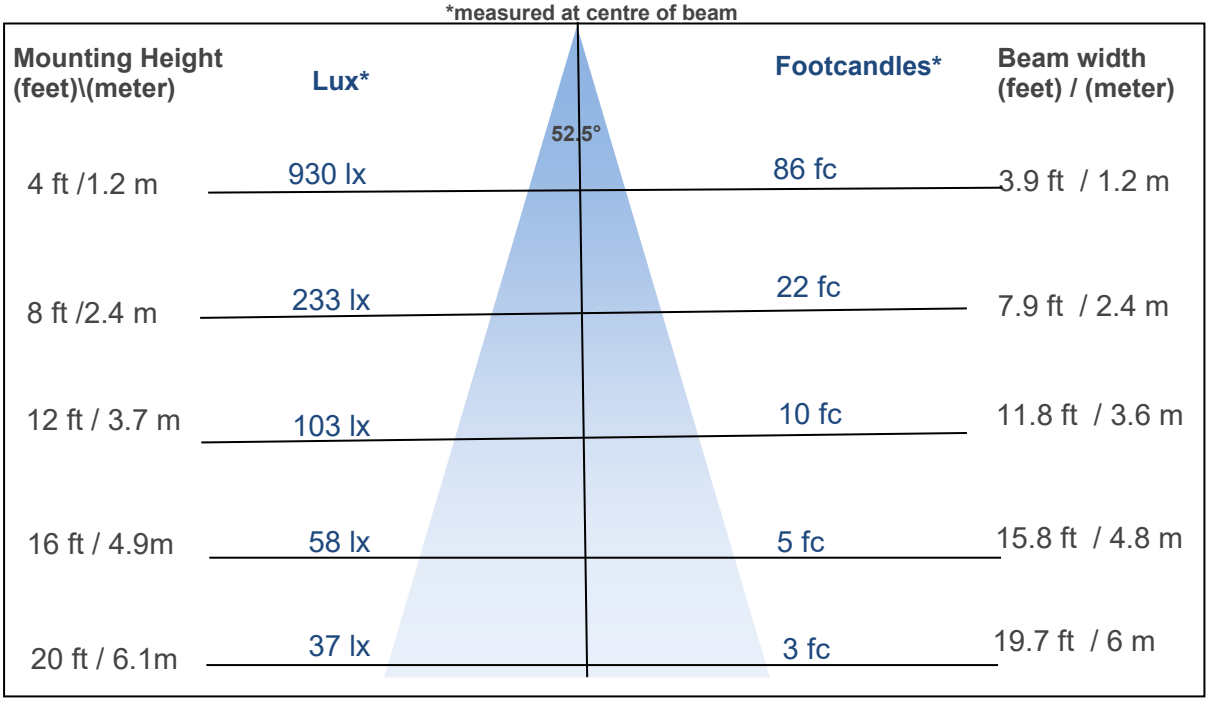
Beam Angle (50% of the brightness of the centre):
52.5°

Field Angle (10% of the brightness of the centre):
80.1°

Cut Off Angle (2.5% of the brightness of the centre):
95.3°

Beam Details

*measured at centre of beam



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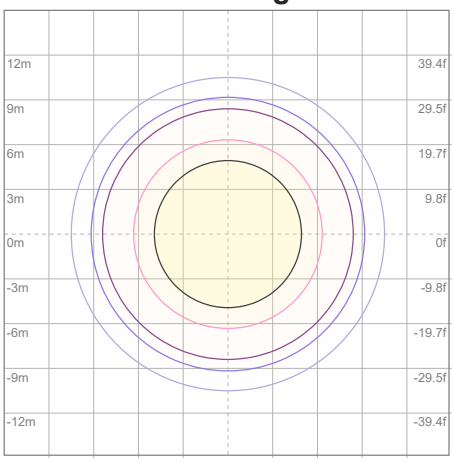
S251XX-MDWWC-TX-XX

Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	806	75.54%
0-40	998	93.53%
0-60	1057	99.06%
60-90	10.2	0.96%
70-100	1.99	0.19%
90-120	0.043	0.00%
0-90	1067	100.00%
90-180	0.528	0.05%
0-180	1067	100.00%

ISO Lux Diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	149 lx
3%	4.47 lx
5%	7.45 lx
10%	14.90 lx
30%	44.70 lx
50%	74.50 lx

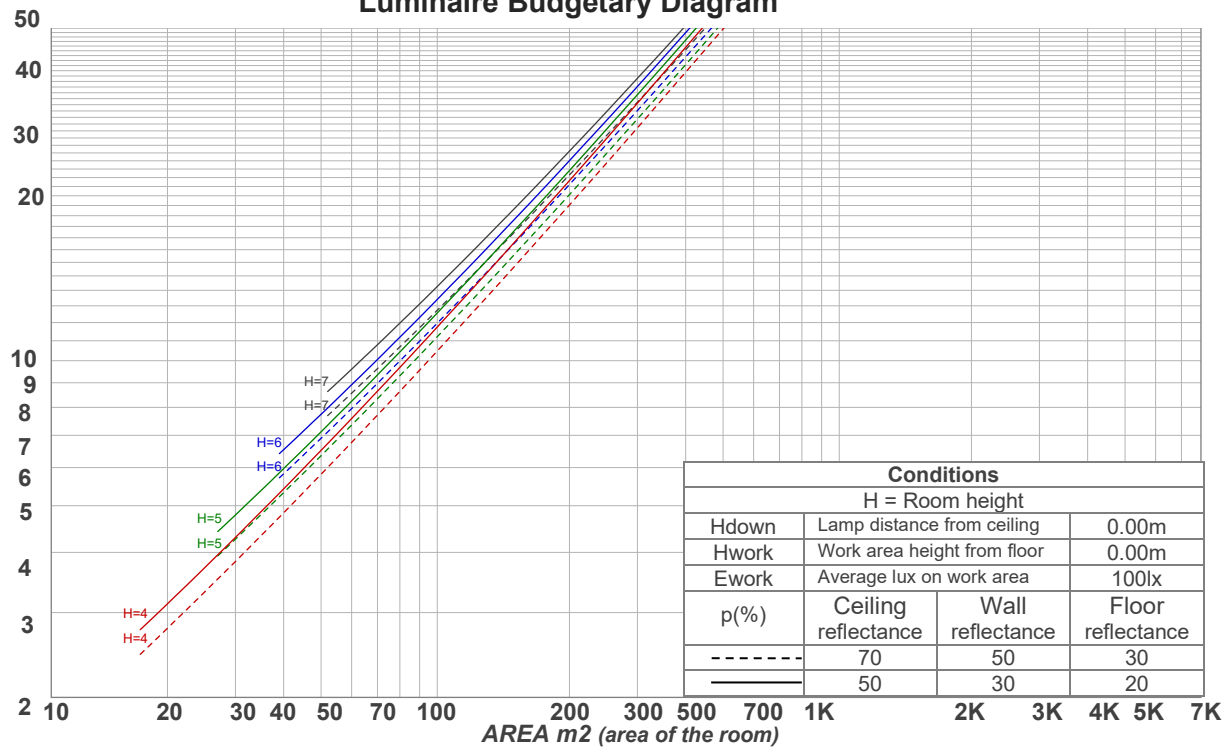
Conditions:
Number of planes: 8
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	103	99	96	106	102	98	95	98	96	93	96	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	85	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	69	67
7	85	76	70	66	83	75	69	66	74	69	65	73	68	65	71	68	65	63
8	81	72	66	62	80	71	65	62	70	65	61	69	64	61	68	64	61	60
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	58	56
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	57	54	53

Luminaire Budgetary Diagram

LAMPS (number of lamps)



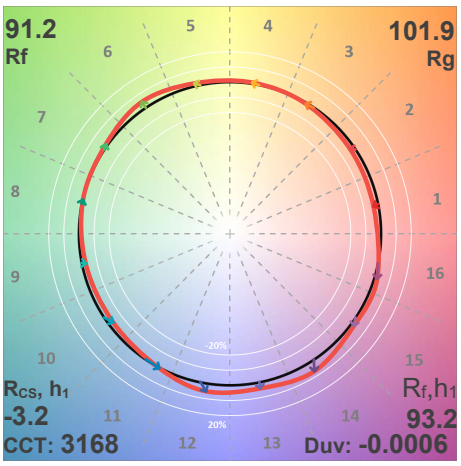
Conditions			
H = Room height			
Hdown	Lamp distance from ceiling		0.00m
Hwork	Work area height from floor		0.00m
Ework	Average lux on work area		100lx
p(%)	Ceiling reflectance	Wall reflectance	Floor reflectance
- - - - - - -	70	50	30
———	50	30	20

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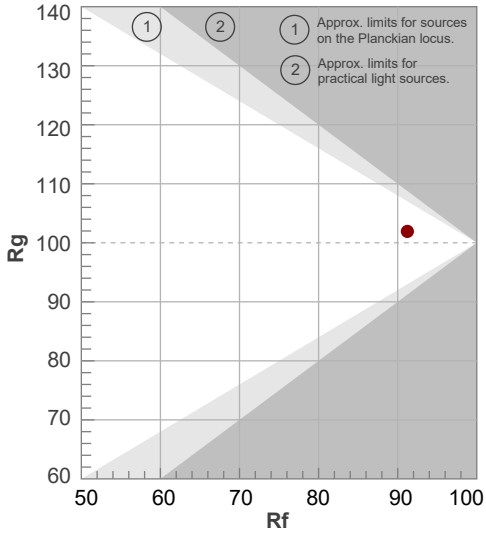
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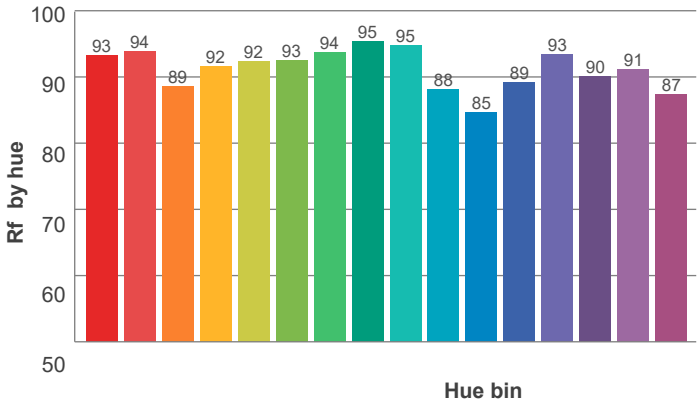
Photometric Testing Report

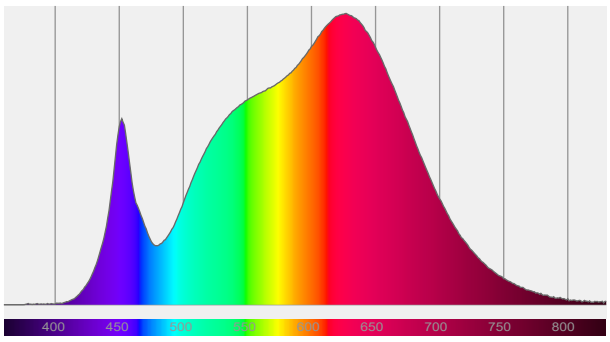
ANSI/IES TM-30-18 P: **2** / V: **-** / F: **2**

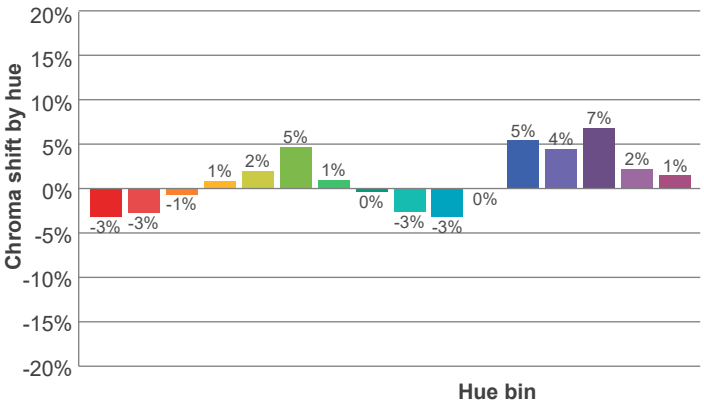


Hue Bin	R_f	Shifts (%) Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	-1%	6%
4	92	1%	5%
5	92	2%	4%
6	93	5%	0%
7	94	1%	-3%
8	95	0%	-3%
9	95	-3%	1%
10	88	-3%	6%
11	85	0%	11%
12	89	5%	5%
13	93	4%	0%
14	90	7%	-4%
15	91	2%	-5%
16	87	1%	-10%









Red: 38.8%, Power=11.8mW

Blue: 8.3%, Power=5.6mW

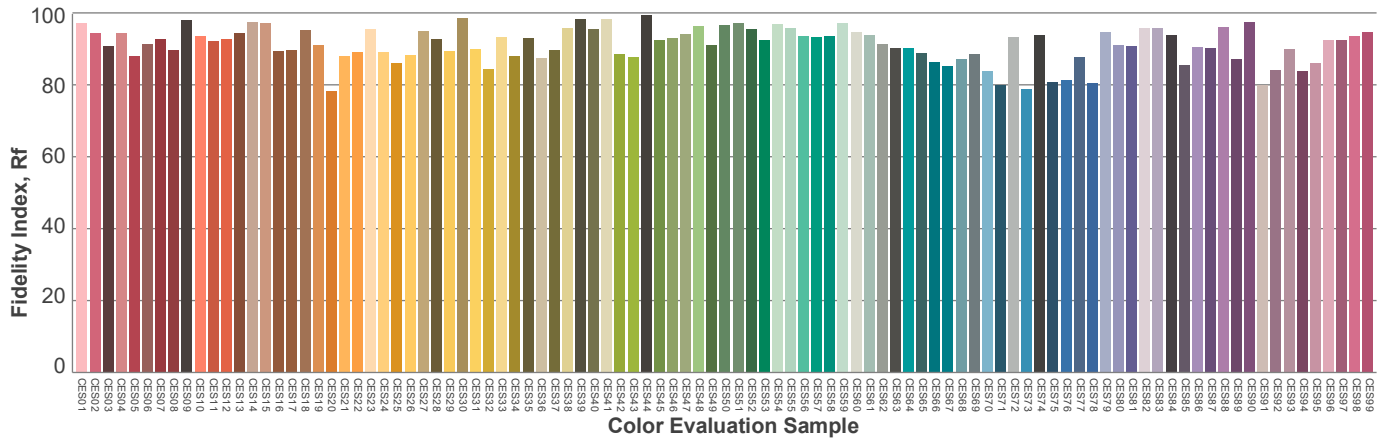
Green: 24.7%, Power=13.8mW

UVA: 0%, Power=0.0mW

Dominant Wavelength:583nm

1st Peak Wavelength: 627nm

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	22.2	22.9	22.3	23.1	23.3	22.2	22.9	22.3	23.1	23.3
	3H	22.0	22.8	22.4	23.0	23.2	22.0	22.8	22.4	23.0	23.2
	4H	21.9	22.7	22.3	22.9	23.1	21.9	22.7	22.3	22.9	23.1
	6H	21.9	22.6	22.2	22.8	23.2	21.9	22.6	22.2	22.8	23.2
	8H	21.9	22.5	22.2	22.8	23.2	21.9	22.5	22.2	22.8	23.2
	12H	21.8	22.4	22.2	22.8	23.2	21.8	22.4	22.2	22.8	23.2
4H	2H	21.9	22.7	22.3	22.9	23.1	21.9	22.7	22.3	22.9	23.1
	3H	21.9	22.5	22.2	22.8	23.3	21.9	22.5	22.2	22.8	23.3
	4H	21.8	22.3	22.2	22.7	23.3	21.8	22.3	22.2	22.7	23.3
	6H	21.7	22.3	22.2	22.6	23.0	21.7	22.3	22.2	22.6	23.0
	8H	21.6	22.2	22.1	22.5	22.9	21.6	22.2	22.1	22.5	22.9
	12H	21.6	22.0	22.1	22.4	22.9	21.6	22.0	22.1	22.4	22.9
8H	4H	21.6	22.2	22.1	22.5	22.9	21.6	22.2	22.1	22.5	22.9
	6H	21.6	22.0	22.1	22.4	22.9	21.6	22.0	22.1	22.4	22.9
	8H	21.6	21.9	22.1	22.4	23.0	21.6	21.9	22.1	22.4	23.0
	12H	21.5	21.8	22.1	22.3	22.9	21.5	21.8	22.1	22.3	22.9
12H	4H	21.6	22.0	22.1	22.4	22.9	21.6	22.0	22.1	22.4	22.9
	6H	21.6	21.9	22.1	22.4	23.0	21.6	21.9	22.1	22.4	23.0
	8H	21.5	21.8	22.1	22.3	22.9	21.5	21.8	22.1	22.3	22.9

Variation of the observer position for the luminaire distance S		
S = 1.0H	4.8 / -6.4	4.8 / -6.4
S = 1.5H	7.3 / -7.6	7.3 / -7.6
S = 2.0H	9.3 / -10.3	9.3 / -10.3

Corrected glare indices referring to 1067 lm total luminous flux