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S241XX-MDWMC-TX-XX

Photometric Testing Report

Light efficiency:

62 Lumen/Watt

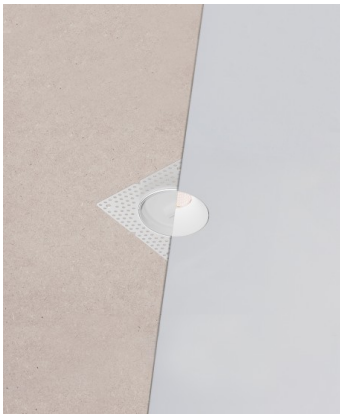
Color temperature:

3121 K

Light quality:

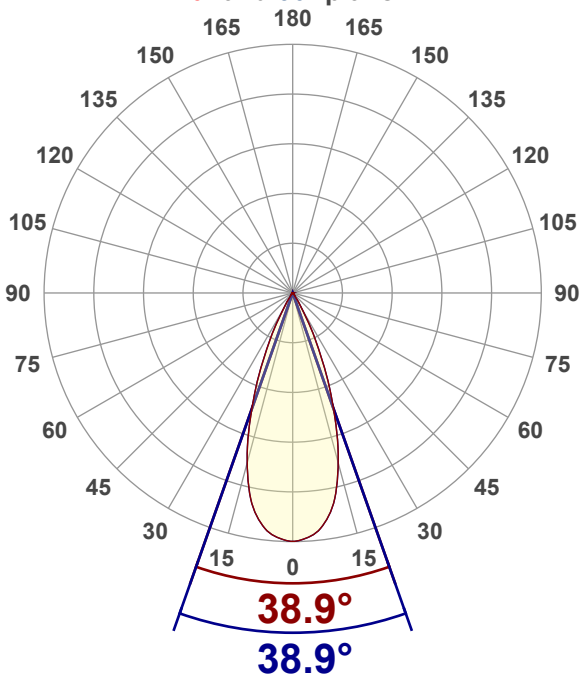
CRI:93.1, R_g:102.0, R_f:91.3
R9: 73.2 / P: 2 / V: - / F: 2

Output:	**1136 lm**
Peak:	**2743 cd**
Power:	**18.4 W**
Voltage:	**119 V**
Current:	**0.157 A**
PF:	**0.99**
THD:	**11.89 %**



Angular Distribution

0° and 90° plane



Product name:
S241XX-MDWMC-TX-XX

Test Date:
8/27/2026

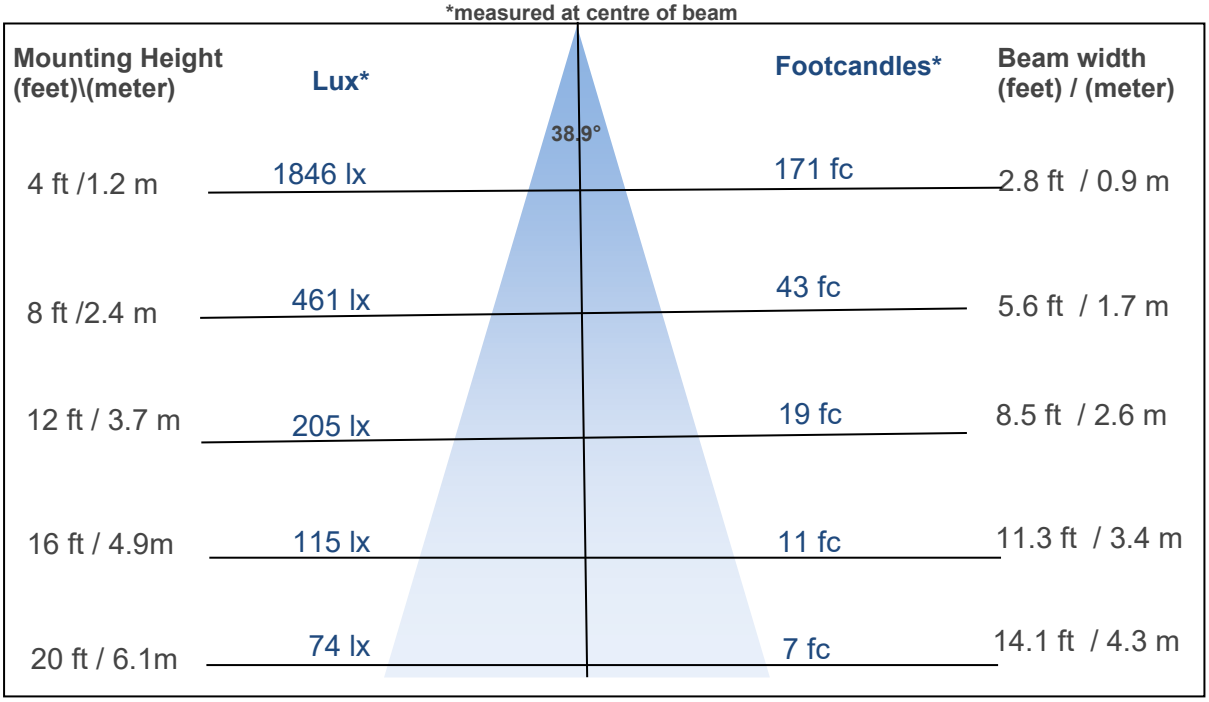
Beam Angle (50% of the brightness of the centre):
38.9°

Field Angle (10% of the brightness of the centre):
59.2°

Cut Off Angle (2.5% of the brightness of the centre):
68.8°

Beam Details

*measured at centre of beam



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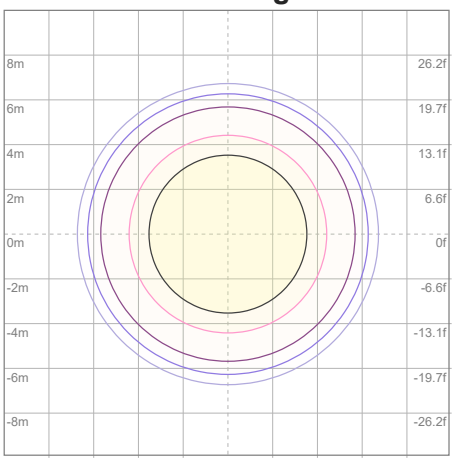
Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	1087	95.69%
0-40	1130	99.47%
0-60	1135	99.91%
60-90	0.955	0.08%
70-100	0.131	0.01%
90-120	0.024	0.00%
0-90	1136	100.00%
90-180	0.632	0.06%
0-180	1136	100.00%

ISO Lux Diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	295 lx
3%	8.85 lx
5%	14.75 lx
10%	29.50 lx
30%	88.50 lx
50%	147.50 lx

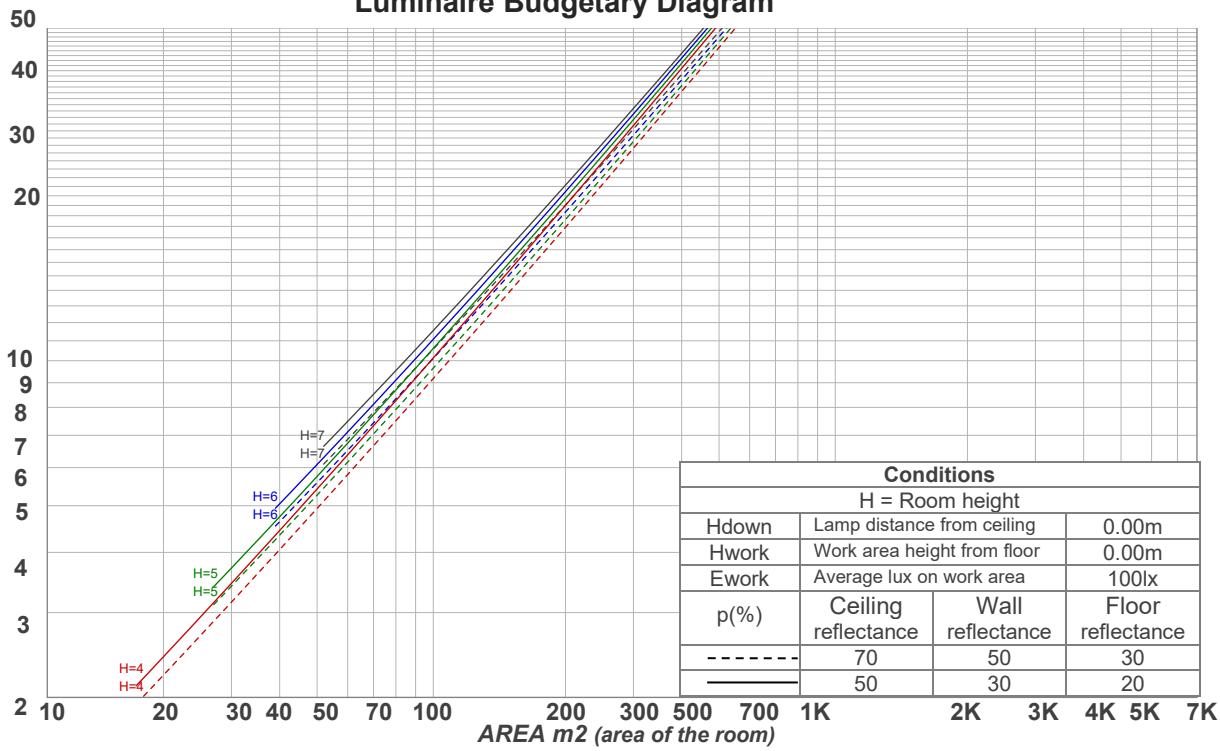
Conditions:
Number of planes: 8
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

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	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92
3	106	101	97	94	105	100	96	93	97	94	92	95	93	91	93	91	89	88
4	103	97	92	89	101	96	92	88	94	90	87	92	89	86	90	88	86	84
5	99	92	88	85	98	92	87	84	90	86	83	88	85	83	87	84	82	81
6	96	89	84	81	94	88	84	80	86	83	80	85	82	79	84	81	79	78
7	92	85	80	77	91	84	80	77	83	79	77	82	79	76	81	78	76	75
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69
10	83	76	71	68	83	75	71	68	75	71	68	74	70	68	73	70	68	67

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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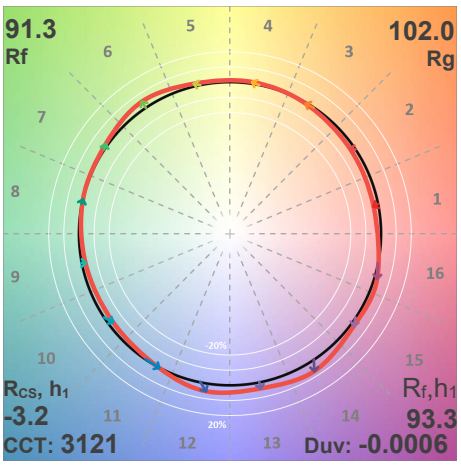
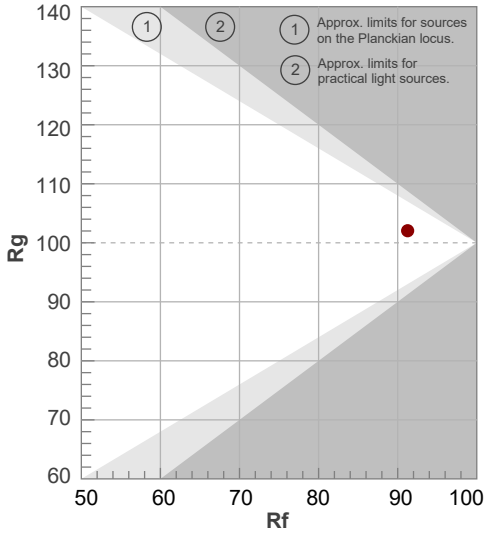
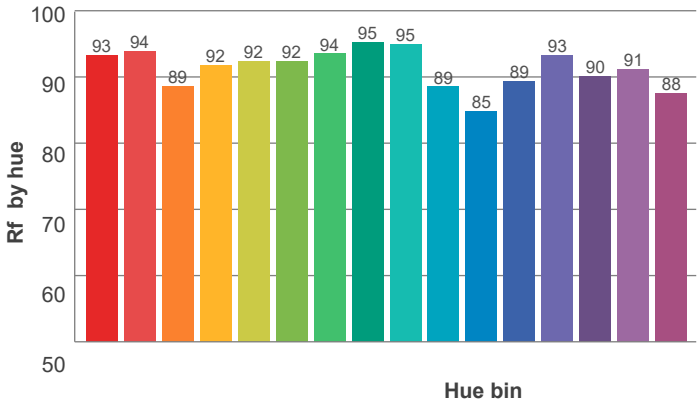
Photometric Testing Report

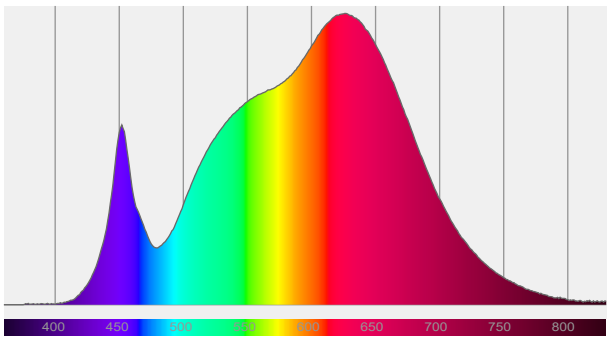
ANSI/IES TM-30-18 P: **2** / V: **-** / F: **2**

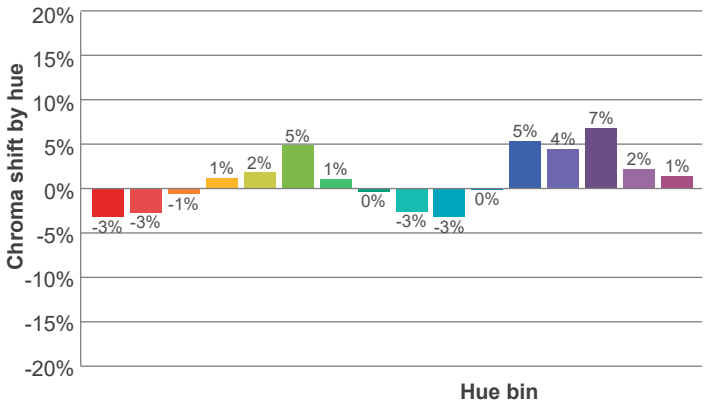


Hue Bin	R_f	Shifts (%) Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	-1%	6%
4	92	1%	5%
5	92	2%	4%
6	92	5%	0%
7	94	1%	-4%
8	95	0%	-3%
9	95	-3%	1%
10	89	-3%	6%
11	85	0%	10%
12	89	5%	5%
13	93	4%	0%
14	90	7%	-4%
15	91	2%	-5%
16	88	1%	-10%









Red: 39.3%, Power=12.8mW

Blue: 8.1%, Power=5.7mW

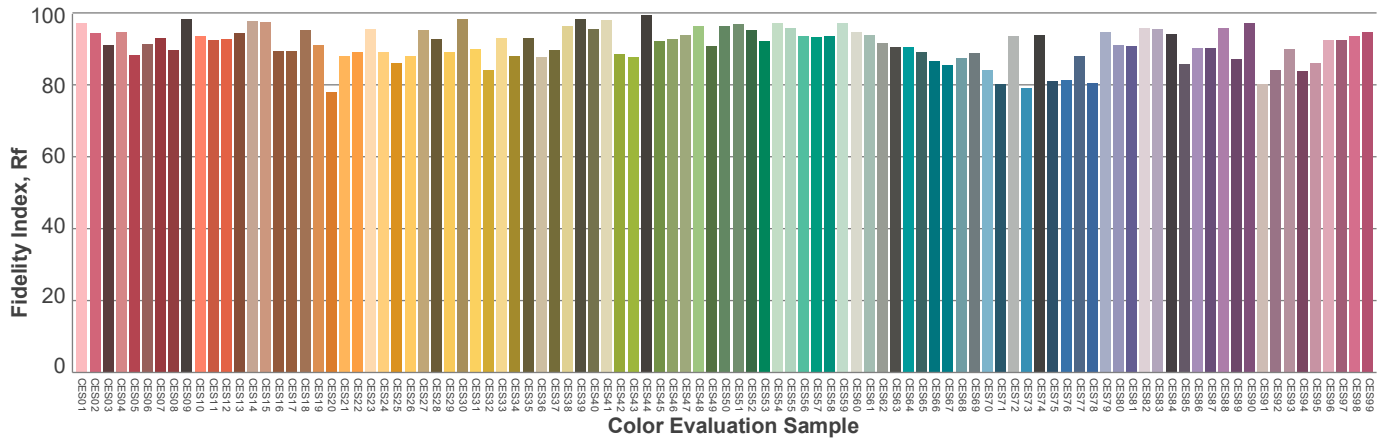
Green: 24.4%, Power=14.6mW

UVA: 0%, Power=0.0mW

Dominant Wavelength:583nm

1st Peak Wavelength: 626nm

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	14.0	14.4	14.0	14.6	14.8	14.0	14.4	14.0	14.6	14.8
	3H	13.6	14.3	14.0	14.5	14.6	13.6	14.3	14.0	14.5	14.6
	4H	13.6	14.2	14.0	14.4	14.6	13.6	14.2	14.0	14.4	14.6
	6H	13.6	14.0	13.9	14.3	14.7	13.6	14.0	13.9	14.3	14.7
	8H	13.5	14.0	13.8	14.3	14.7	13.5	14.0	13.8	14.3	14.7
	12H	13.5	13.9	13.8	14.3	14.7	13.5	13.9	13.8	14.3	14.7
4H	2H	13.6	14.2	14.0	14.4	14.6	13.6	14.2	14.0	14.4	14.6
	3H	13.5	13.9	13.8	14.3	14.7	13.5	13.9	13.8	14.3	14.7
	4H	13.3	13.7	13.7	14.2	14.7	13.3	13.7	13.7	14.2	14.7
	6H	13.2	13.7	13.7	14.0	14.4	13.2	13.7	13.7	14.0	14.4
	8H	13.2	13.6	13.7	14.0	14.3	13.2	13.6	13.7	14.0	14.3
	12H	13.1	13.5	13.6	13.9	14.3	13.1	13.5	13.6	13.9	14.3
8H	4H	13.2	13.6	13.7	14.0	14.3	13.2	13.6	13.7	14.0	14.3
	6H	13.1	13.4	13.6	13.8	14.4	13.1	13.4	13.6	13.8	14.4
	8H	13.1	13.3	13.6	13.8	14.5	13.1	13.3	13.6	13.8	14.5
	12H	13.0	13.2	13.6	13.7	14.3	13.0	13.2	13.6	13.7	14.3
12H	4H	13.1	13.5	13.6	13.9	14.3	13.1	13.5	13.6	13.9	14.3
	6H	13.1	13.3	13.6	13.8	14.5	13.1	13.3	13.6	13.8	14.5
	8H	13.0	13.2	13.6	13.7	14.3	13.0	13.2	13.6	13.7	14.3

Variation of the observer position for the luminaire distance S		
S = 1.0H	6.8 / -13.3	6.8 / -13.3
S = 1.5H	9.6 / -14.3	9.6 / -14.3
S = 2.0H	11.6 / -18.7	11.6 / -18.7

Corrected glare indices referring to 1136 lm total luminous flux