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T 416.996.1856 | 1.866.730.7704
F 905.709.5255 | 1.888.738.9736

S4P1Wx-0830MCxx-xxx

Liteline

Photometric Testing Report

Light efficiency:

82 Lumen/Watt

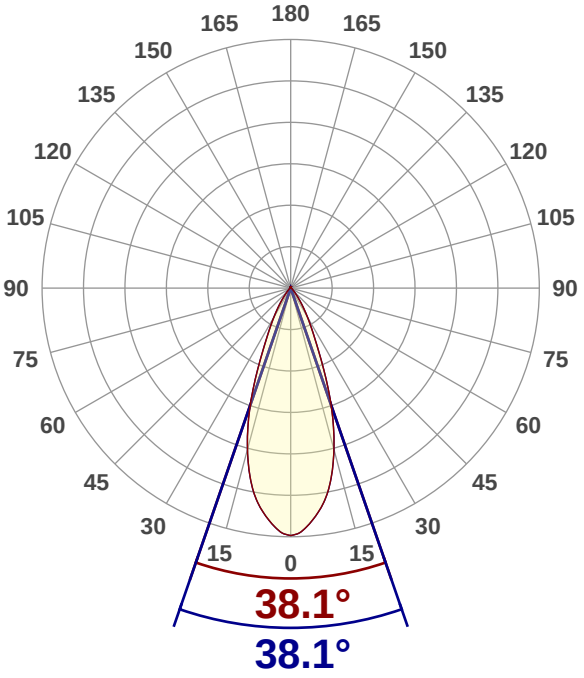
Light quality:

CRI: 93.1

Color temperature:

3057 K

Output:	**2774 lm**
Peak:	**5706 cd**
Power:	**33.7 W**
Voltage:	**118 V**
Current:	**0.288 A**
PF:	**0.99**
THD:	**9.64 %**



Product name:
S4P1Wx-0830MCxx-xxx

Driver Used:
ESM040W-800-42

Test Date:
2018-05-22

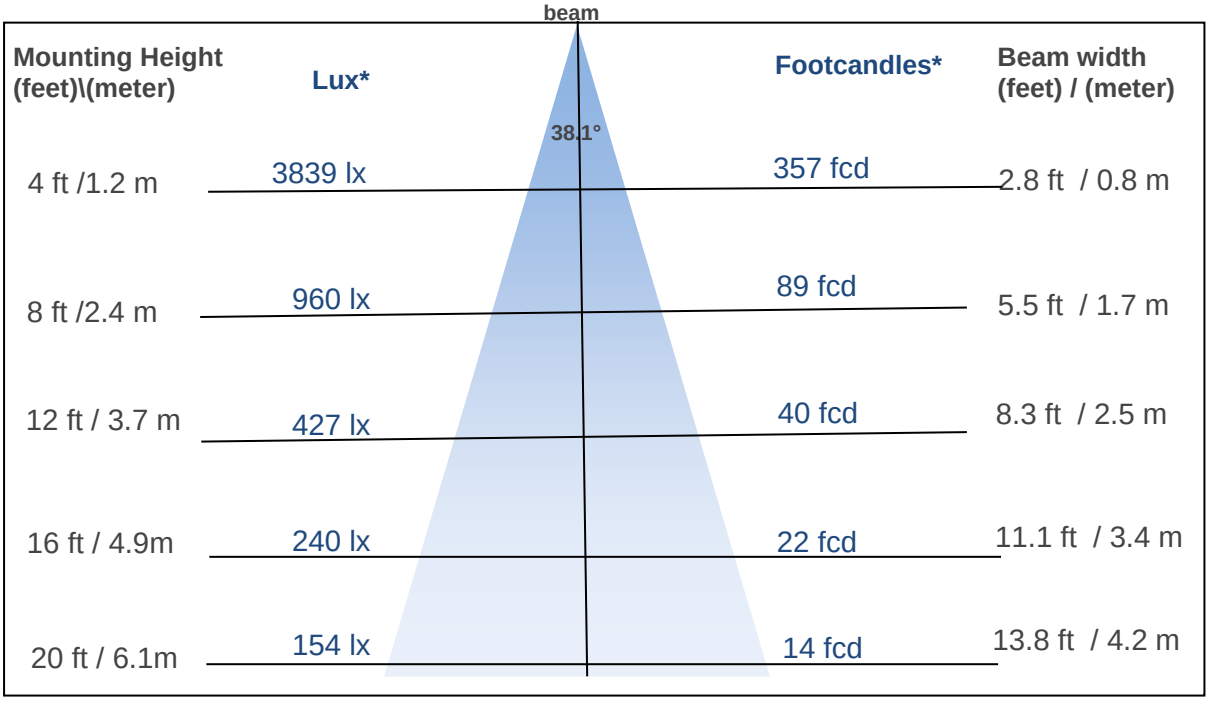
Beam Angle:
38.1°

Field Angle:
65.1°

Cut Off Angle:
85.8°

Beam details

*measured at center of beam



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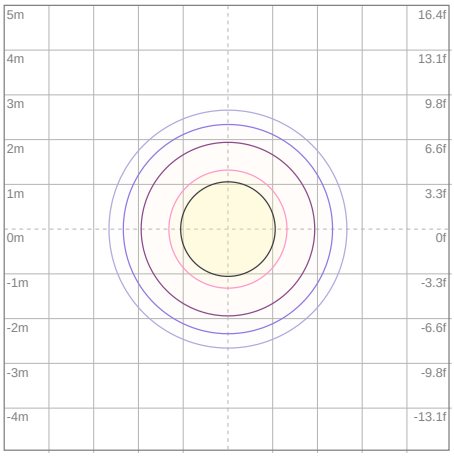
S4P1Wx-0830MCxx-xxx

Light planning Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	2212	79.74%
0-40	2480	89.40%
0-60	2618	94.38%
60-90	65.6	2.36%
70-100	41.2	1.49%
90-120	23.8	0.86%
0-90	2684	96.76%
90-180	89.9	3.24%
0-180	2774	100.00%

ISO lux diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	613 lx
3%	18.39 lx
5%	30.65 lx
10%	61.30 lx
30%	183.90 lx
50%	306.50 lx

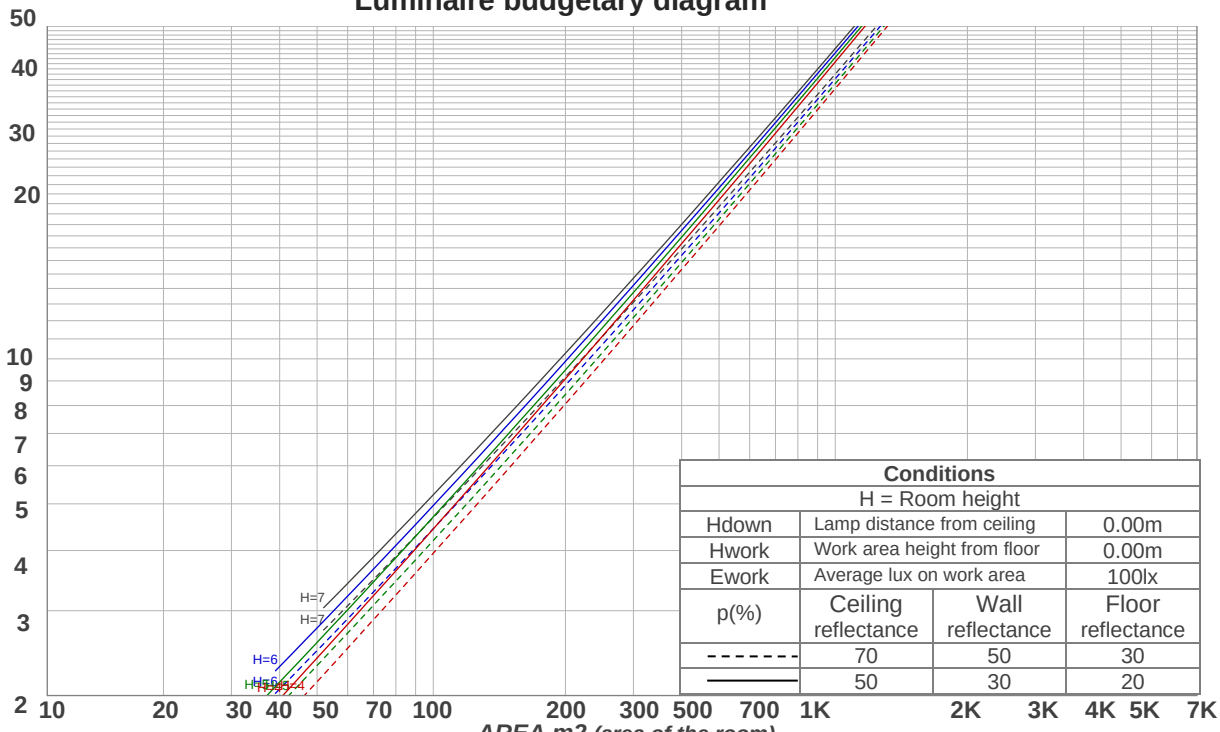
Conditions:
Number of planes: 16
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	113	110	108	106	110	108	106	104	103	101	100	99	97	96	95	94	93	91
2	108	103	99	96	105	101	98	95	97	95	92	94	92	90	91	89	87	86
3	103	97	92	89	101	95	91	88	92	89	86	89	87	84	87	84	82	81
4	98	91	86	82	96	90	85	82	88	84	80	85	82	79	83	80	78	76
5	94	87	81	77	92	85	80	77	83	79	76	81	78	75	80	76	74	73
6	90	82	77	73	89	81	76	73	79	75	72	78	74	71	76	73	70	69
7	87	78	73	69	85	77	72	69	76	71	68	75	71	68	73	70	67	66
8	83	75	69	66	82	74	69	65	73	68	65	71	67	64	70	67	64	63
9	80	71	66	63	79	71	66	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	60	76	68	63	60	67	62	59	66	62	59	65	61	59	58

Luminaire budgetary diagram

LAMPS (number of lamps)



AREA m2 (area of the room)

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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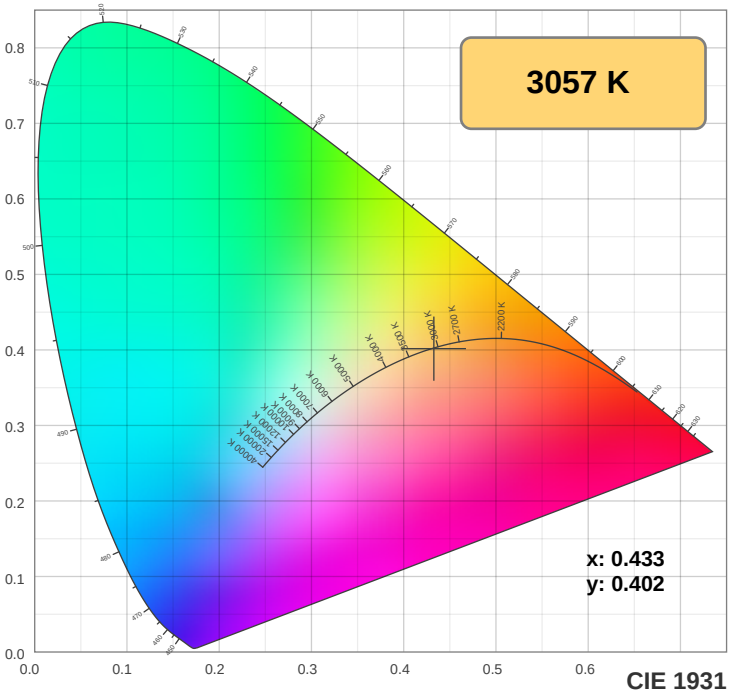
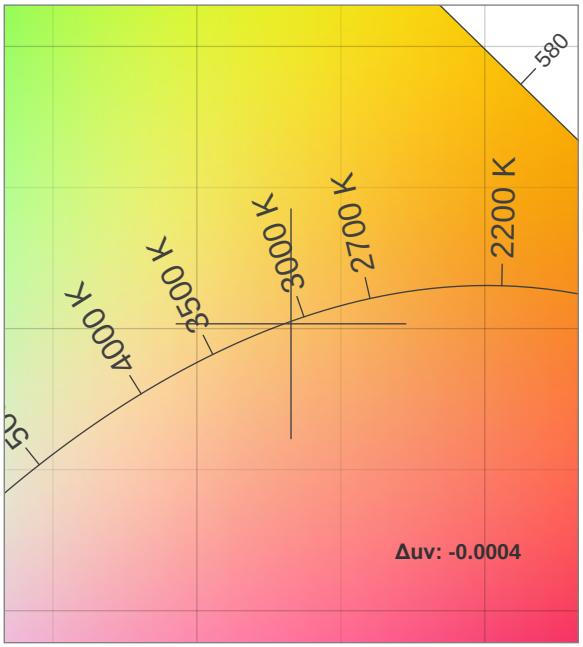
Liteline

Color details Photometric Testing Report

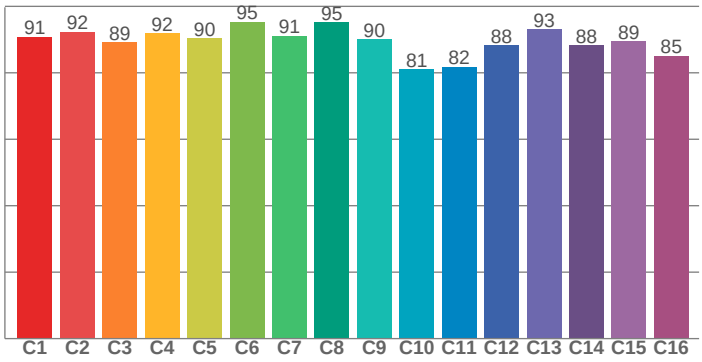


CIE 1931

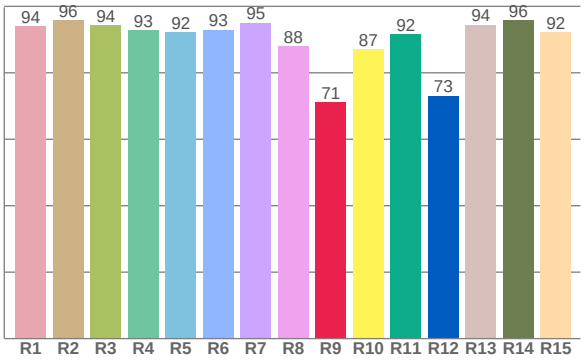


CIE 1931 ZOOM

TM30: 89.4



CRI: 93.1 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.0	95.7	94.4	92.9	92.2	93.0	95.1	87.9	71.2	87.1	91.6	73.1	94.5	95.8	92.2

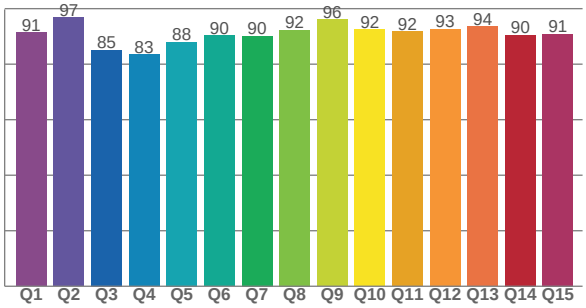
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90.8	92.3	89.1	91.8	90.4	95.3	91.2	95.2	90.1	81.0	81.8	88.3	93.1	88.3	89.5	85.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.4	96.8	85.1	83.5	87.9	90.3	90.1	92.3	96.0	92.4	91.7	92.7	93.6	90.5	90.8

CQS: 90.3



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3057 K	93.1	71.2	89.4	99.4	90.3	0.433	0.402	0.249	0.347	-0.0004

Glare Evaluation According to UGR

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 X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	17.4	18.1	17.7	18.4	18.6	17.4	18.1	17.7	18.4	18.6
	3H	18.0	18.6	18.3	18.9	19.2	18.0	18.6	18.3	18.9	19.2
	4H	18.3	18.9	18.7	19.2	19.5	18.3	18.9	18.7	19.2	19.5
	6H	18.7	19.3	19.1	19.6	19.9	18.7	19.3	19.1	19.6	19.9
	8H	18.9	19.4	19.3	19.8	20.1	18.9	19.4	19.3	19.8	20.1
	12H	19.1	19.6	19.5	20.0	20.4	19.1	19.6	19.5	20.0	20.4
4H	2H	17.5	18.1	17.9	18.4	18.7	17.5	18.1	17.9	18.4	18.7
	3H	18.3	18.8	18.7	19.2	19.5	18.3	18.8	18.7	19.2	19.5
	4H	18.8	19.2	19.2	19.6	20.0	18.8	19.2	19.2	19.6	20.0
	6H	19.4	19.7	19.8	20.2	20.6	19.4	19.7	19.8	20.2	20.6
	8H	19.7	20.0	20.1	20.4	20.9	19.7	20.0	20.1	20.4	20.9
	12H	20.0	20.3	20.5	20.7	21.2	20.0	20.3	20.5	20.7	21.2
8H	4H	19.0	19.3	19.5	19.8	20.2	19.0	19.3	19.5	19.8	20.2
	6H	19.8	20.0	20.3	20.5	21.0	19.8	20.0	20.3	20.5	21.0
	8H	20.2	20.4	20.7	20.9	21.4	20.2	20.4	20.7	20.9	21.4
	12H	20.7	20.8	21.2	21.3	21.9	20.7	20.8	21.2	21.3	21.9
12H	4H	19.0	19.3	19.5	19.8	20.3	19.0	19.3	19.5	19.8	20.3
	6H	19.8	20.0	20.4	20.5	21.1	19.8	20.0	20.4	20.5	21.1
	8H	20.3	20.5	20.9	21.0	21.6	20.3	20.5	20.9	21.0	21.6
Variation of the observer position for the luminaire distance S											
S = 1.0H		+1.7 / -0.9					+1.7 / -0.9				
S = 1.5H		+3.5 / -1.2					+3.5 / -1.2				
S = 2.0H		+5.1 / -1.4					+5.1 / -1.4				
Standard table		BK04					BK04				
Correction summand		2.4					2.4				
Corrected glare indices referring to 2774 lm total luminous flux											