

KW032A

Installation : CCP Summer Works

Project number : 1059CLN
Customer : Simon Wheeler @ Vickery Holman
Processed by : Chris Norsworthy
Date : 19.06.2017

Project description:

I have carried out calculations as per your instructions and guidance. Please check and confirm all details are correct. All areas have been assumed as being open plan without any obstructions above the working plane. Please be aware of L2 requirements and check that conformity has been met where required. SBEM calculations are the responsibility of the contractor.

If our design has been submitted with emergency lighting coverage, it was designed as a service to provide an overall illuminance in line with current emergency lighting recommendations, but to be strictly in line with guidelines, other factors need to be considered including, but not limited to,

- Any change of direction requires emergency lighting consideration.
- Any change in floor levels (Including a step or ramp) requires additional consideration.
- Any fire-fighting equipment (Hoses or extinguishers) needs additional consideration.
- Any fire assembly areas require additional considerations.
- All fire call points require additional consideration.
- Exit routes need extra considerations.

We have not carried out a risk assessment for emergency lighting on the site. We accept no responsibility for current requirements that under HSE and fire regulations are the responsibilities of the 'Responsible Person' or management of the site owners or operators. The emergency scheme must be checked and confirmed with a local building/fire control officer and ultimately approved by the owner of the building.

We have used common design parameters in order to carry out all our calculations and if any divergences that are not accepted, please contact us in order for re calculations to be carried out prior to an order. Please ensure that this lighting scheme complies with all requirements, and if further details/ calculations are required please contact us on the above number. Final quantities are to be confirmed prior to an order/installation.

Whilst every effort will be made by Fitzgerald to adhere to the written or product specification, it is always the responsibility of the customer to ensure that any scheme, specification or product satisfies the end users requirements.

The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

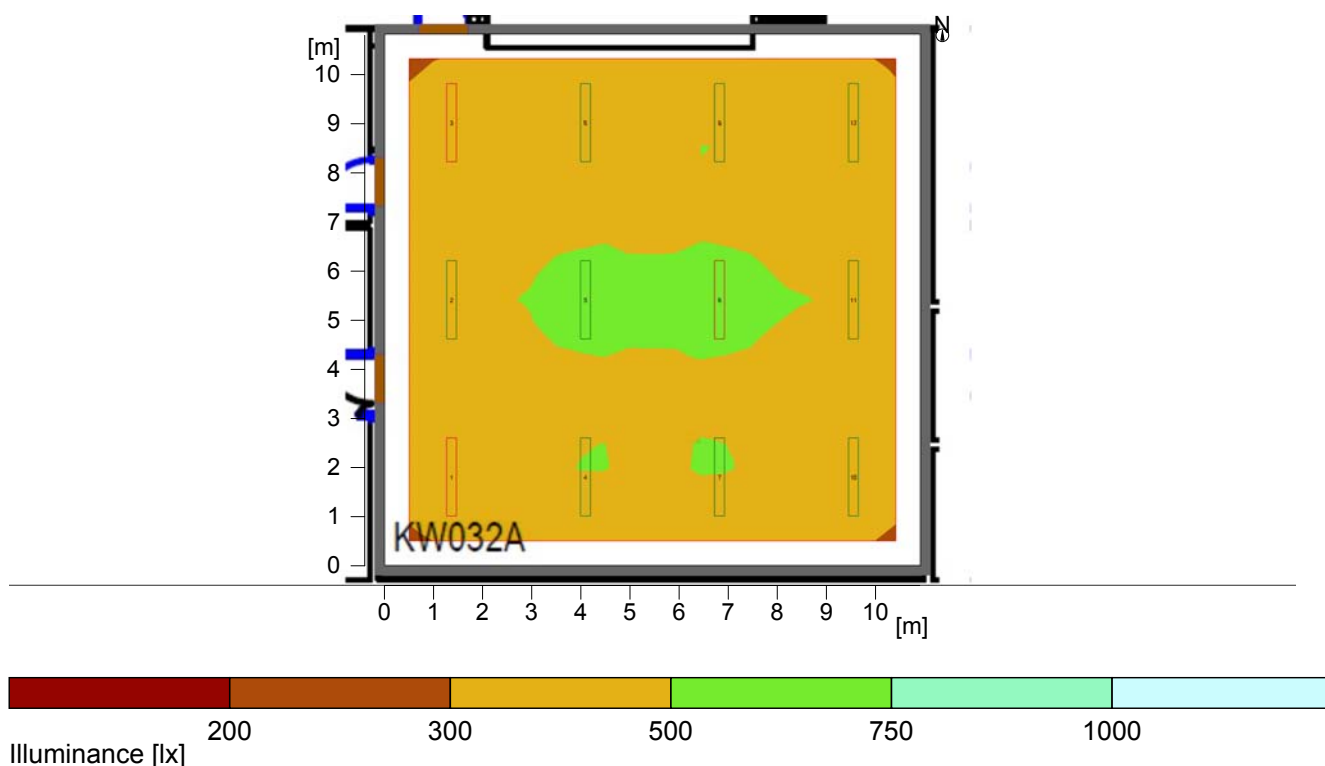
Guarantee claims for luminaire data are excluded.

Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.

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1.2 Summary, KW032A

1.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	3.50 m
Maintenance factor	0.85
Total luminous flux of all lamps	74280 lm
Total power	804.0 W
Total power per area (117.72 m ²)	6.83 W/m ² (1.51 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

Horizontal	
Em	453 lx
Emin	354 lx
Emin/Eav (Uo)	0.78
Position	0.75 m

Major surfaces

Uo

Type No. Make

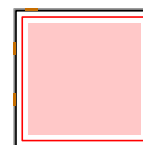
Fitzgerald Lighting			
1	9	Order No.	: SPE66/5T/CO/840/1.5SK
		Luminaire name	: Spectrum LED
		Equipment	: 1 x LED MODULES / 6190 lm
2	3	Order No.	: SPE66/5T/CO/840/1.5SK/M3
		Luminaire name	: Spectrum LED
		Equipment	: 1 x LED MODULES / 6190 lm

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1.3 Calculation results, KW032A

1.3.1 Table, Reference plane 1.1 (E)

	(354)	390	402	428	421	419	430	406	394	357
[m]										
8	414	453	462	497	485	486	500	466	457	417
7	398	437	454	478	474	475	481	458	442	400
6	396	437	456	478	476	477	481	460	442	399
5	442	482	496	529	519	520	532	500	487	444
4	442	483	496	530	520	521	[533]	501	488	445
3	400	440	458	481	479	480	484	463	445	402
2	399	441	457	482	479	480	485	462	446	404
1	418	457	467	502	490	491	505	471	462	423
0	358	393	404	431	424	425	434	409	398	363
	0	1	2	3	4	5	6	7	8	[m]
Illuminance [lx]										



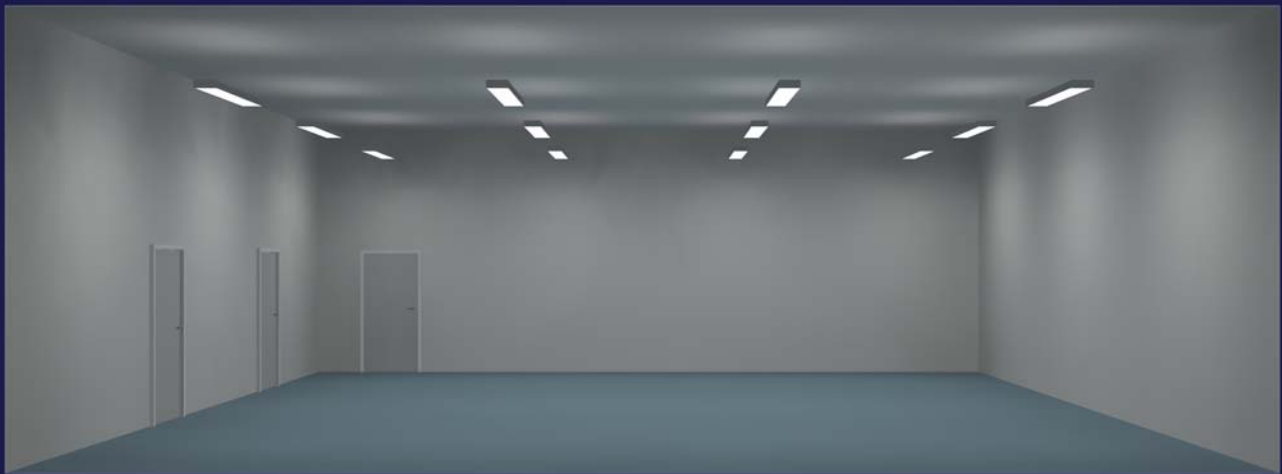
Height of the reference plane

Average illuminance	Eav	: 0.75 m
Minimum illuminance	Emin	: 453 lx
Maximum illuminance	Emax	: 354 lx
Uniformity Uo	Emin/Eav	: 533 lx
		: 1 : 1.28 (0.78)

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1.3 Calculation results, KW032A

1.3.2 3D luminance, View from the front



Luminance in the scene

Minimum: : 0 cd/m²

Maximum: : 53.9 cd/m²

1.3 Calculation results, KW032A

1.3.3 3D pseudo colours, View from the front (E)

