

TECHNICAL SUBMISSION

Submission to: Kier Construction	Contract: Wren School - Reading	
	Contract No: 4227E	
Package: Internal & External Lighting	Submittal No: 4227 –TSE01 Rev 1	
Comments:	<u>Relevant Details</u>	
Approval required please,	Drawing Nos: Zumtobel/Thorn	
	Specification Ref: 4227E Technical Submission TSE01 - Particular Luminaire Schedule v4	
	AN. Other:	
DATE APPROVAL REQUIRED BY : 09/11/17.		
Signed for LJJ Ltd	Print Name: Clive Ward	Date: 09/11/17
APPROVAL STATUS: ☐ A – Approved ☐ B – Approved subject to comments ☐ C – Not approved		
Comments:		
Please find attached LJJ's contractors proposal for alternative luminaires but as CP proposals for the Zumtobel/Thorn internal & external lighting as 4227E Technical Submission TSE01 - Particular Luminaire Schedule v4 as also shown on issued drawings 715-01-E100 Rev A 715-01-E101 Rev A 715-01-E102 Rev A 715-01-E103 Rev A 715-01-E110 Rev A 715-01-E111 Rev A 715-01-E112 Rev A 715-01-E113 Rev A 715-01-E120 Rev A 715-01-E121 Rev A 715-01-E122 Rev A 715-01-E123 Rev A 715-01-E130 Rev A 715-02-E100 Rev A 715-02-E110 Rev A 715-02-E120 Rev A 715-E900 Rev A 715-E901 Rev A 715-E902 Rev A 715-E903 Rev A		
Signed:	Print Name:	Date:

Distribution: Client copy
Engineer's copy



Luminaire Schedule

For The

Wren School,

Bath Road,

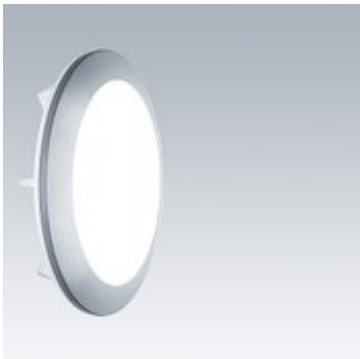
Reading.

Author:	A Booth
Approved:	M Seaward
Ref:	715-SCH-E-001
Issue No:	04
Date:	March 2017
Contact:	info@avoca-ce.com

Change History

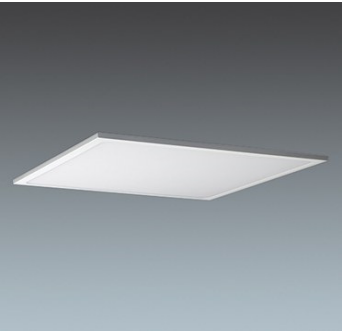
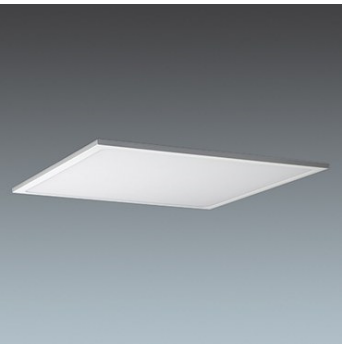
Issue	Summary of Alterations
01	Preliminary issue.
02	Updated as rev 0 drawing issue.
03	Updated in accordance with sports hall latest lighting calc changes. Finalised Thorn Quotation 23750651 1.9.2017 External Lighting Added.
04	Type C Luminaire updated to Thorn Lyric, C1 luminaire omitted.

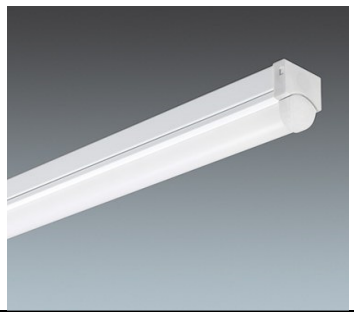
Ref.	Image		Luminaire Name/ Type	Description of Luminaire	Typical Application
A			Thorn Lighting Cetus LED 2000 lm 25W	Cetus LED downlight incorporating thermally optimised, deep drawn, aluminium body with IP44 as standard. Fixed output. Dimensions: Ø215 x 88 mm	Corridors, WCs, Stairways and Stores.
A1			Thorn Lighting Cetus LED 1000 lm 13W	Cetus LED downlight incorporating thermally optimised, deep drawn, aluminium body with IP44 as standard. Fixed output. Dimensions: Ø215 x 88 mm	WCs
B			Thorn Lighting Aquaforce 2 LED 4300 lm 34W	High performance LED IP65, dust and moisture resistant luminaire with polycarbonate canopy, polycarbonate diffusers and steel toggles, Ra80, 4000K, long service life of 50,000 hours with 70% light output. Fixed output. Dimensions: 1300 x 147 x 118 mm	Plant, Office & Stores

Ref.	Image	Luminaire Name/ Type	Description of Luminaire	Typical Application
B1		Thorn Lighting Aquaforce 2 LED 6400 lm 53W	High performance LED IP65, dust and moisture resistant luminaire with polycarbonate canopy, polycarbonate diffusers and steel toggles, Ra80, 4000K, long service life of 50,000 hours with 70% light output. Fixed output. Dimensions: 1600 x 147 x 118 mm	Plant
C		Thorn Lighting Lyric LED 2500 lm 25W	Slim circular wall or ceiling luminaire in white finish, starburst backlight with fixed output LED control gear. Dimensions: Ø456 x 107 mm	Stairway / Stores
C1	Omitted			

Ref.	Image	Luminaire Name/ Type	Description of Luminaire	Typical Application
D		Thorn Lighting Jupiter 3 LED 4200 lm 52W	Slim LED suspended self-balancing luminaire, in white with double parabolic performance louvre optic, microprismatic diffuser, mounted individually with dimmable and emergency versions. Dimensions: 1276 x 219 x 52 mm	Classrooms & Circulation
D1		Thorn Lighting Jupiter 3 LED 2850 lm 35W	Slim LED suspended self-balancing luminaire, in white with double parabolic performance louvre optic, microprismatic diffuser, mounted individually with dimmable and emergency versions. Dimensions: 1276 x 219 x 52 mm	Offices & Circulation
E1		Thorn Lighting Voyager Compact LED 94 lm 3W	LED emergency bulkhead offering maintained and non-maintained operation in one luminaire sealed to IP65 for outdoor use. Dimensions: 210 x 115 x 70 mm	External mounted at escape points from building.

Ref.	Image	Luminaire Name/ Type	Description of Luminaire	Typical Application
F		Thorn Lighting HiPak Pro LED 18500 lm 152W	A LED High Bay luminaire with rack distribution. Electronic, DALI dimmable control gear. Class I electrical, IP43, IK08. Housing: anodised aluminium extrusion. Electrical connection via piano key terminal block behind sliding cover. Dimensions: 756 x 271 x 92 mm	Sports Hall
G		Thorn Lighting Equaline LED 3200 lm 48W	Wire suspended slim aluminium luminaire and acrylic diffuser, mounted via dedicated wire suspension brackets. Mounted individually. DALI dimmable. Dimensions: 1270 x 72 x 85 mm	Dining
GE		Thorn Lighting Equaline LED Emergency Attachment Module	Lighting module which attaches to the end of the Equaline luminaire to allow emergency luminous flux of 350 lm. Dimensions: 250mm Long	Dining

Ref.	Image	Luminaire Name/ Type	Description of Luminaire	Typical Application
H		Thorn Lighting Omega LED 3900 lm 41W	A versatile square luminaire. Recessed mounted with LED light source with 4000K colour temperature, CRI>80 and a lifetime of 50,000 hours @ L70 Ta 25C. Fixed output. Dimensions: 597 x 597 x 12 mm	Offices & Recreational Spaces
H1		Thorn Lighting Omega LED 3250 lm 32W	A versatile square luminaire. Recessed mounted with LED light source with 4000K colour temperature, CRI>80 and a lifetime of 50,000 hours @ L70 Ta 25C. Fixed output. Dimensions: 597 x 597 x 12 mm	Offices & Recreational Spaces
I		Thorn Lighting Glacier 2 LED 6000 lm 56W	A modern and efficient suspended LED pendant luminaire. Electronic, DALI dimmable control gear. Die-cast aluminium with satin grey finish housing. Prismatic polycarbonate reflector with easy bayonet mount connection to housing. Class I electrical, IP20. Dimensions: Ø340/140 x 485 mm	Dining, Main Hall, Entrance Lobby and Drama

Ref.	Image	Luminaire Name/ Type	Description of Luminaire	Typical Application
J		Thorn Lighting Omega Pro LED 4100 lm 41W	A recessed edge lit LED luminaire with a slim 19mm profile. Electronic, DALI digital dimmable control gear. IP40 from below, IP40_IP20 from above, IK03. Diffuser: UV-stabilised, Glare ProTech prismatic optic. Dimensions: 597 x 597 x 12 mm	Classrooms
K		Thorn Lighting Poppack LED 4000 lm 38W	Batten LED luminaire with replaceable light engine. Electronic – fixed output control gear. Coated formed steel body. Opal acrylic diffuser. Dimensions: 1455 x 60 x 74 mm	Stores & Offices
K1		Thorn Lighting Poppack LED 6500 lm 60W	Batten LED luminaire with replaceable light engine. Electronic – fixed output control gear. Coated formed steel body. Opal acrylic diffuser. Dimensions: 1730 x 60 x 74 mm	Stores

Ref.	Image	Luminaire Name/ Type	Description of Luminaire	Typical Application
X1		Thorn Lighting D-CO LED Bollard 583 lm 14W	LED bollard, electronic fixed output control gear. Class 1 electrical IP65. Top and body aluminium powder coated. Semi-Opal anti-UV polycarbonate diffuser. Dimensions: Ø150 x 1000 mm	External Pathways
X2		Thorn Lighting LEDFIT 9000 lm 90W	LED area floodlight, asymmetric optic. Integral LED control gear. Class 1 electrical IP66. Body die-cast aluminium painted. Wall Mounted at 6m Dimensions: 368 x 236 x 48 mm	External CarParks
X3		Thorn Lighting CQ 5161 lm 39W	LED road lighting lantern with extra wide street optic. Electronic LED control gear. Class 1 electrical IP66. Body die-cast aluminium powder coated. Complete with 6m column. Dimensions: 390 x 230 x 133 mm	External CarParks

Ref.	Image	Luminaire Name/ Type	Description of Luminaire	Typical Application
X5		Thorn Lighting Olsys 2683 lm 24W	LED lantern with street distribution. Electronic LED control gear. Class 1 electrical IP66. Body die-cast aluminium powder coated. Polycarbonate Optic Wall mounted at 3.5m Dimensions: 330 x 225 x 59 mm	External Building Perimeters

Notes

1. All luminaires to be 4000K colour temperature.
2. Luminaires also available in Emergency configuration as shown on the layout drawings, General lighting to operate in combined non-maintained operation with 3 hour back-up.