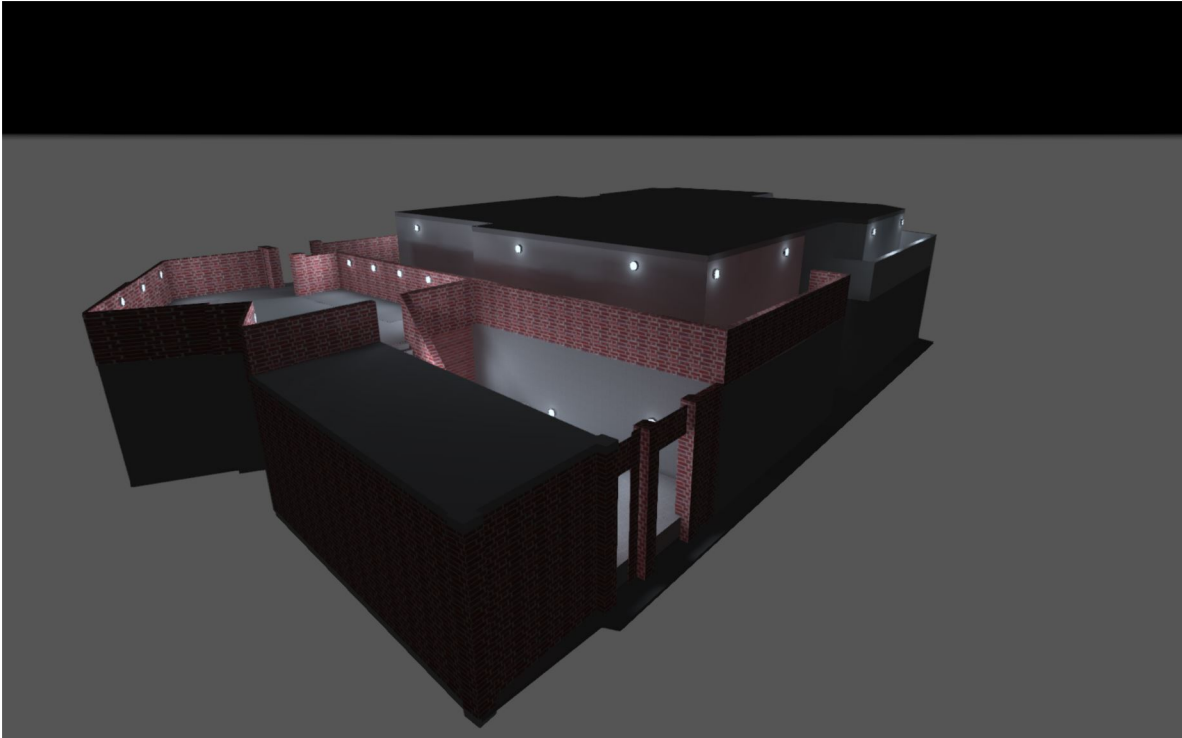




Proposed Site Lighting Layout

Product data sheet

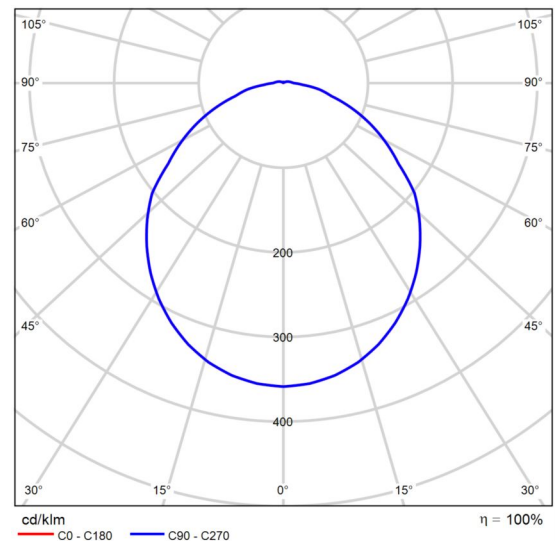
Thorn Lighting - KAT RD SE 1200-830 HF [STD]



Article No.	96632221
P	12.0 W
Φ_{Lamp}	1200 lm
$\Phi_{\text{Luminaire}}$	1200 lm
η	100.00 %
Luminous efficacy	100.0 lm/W
CCT	3000 K
CRI	80

A round functional LED luminaire with deep body for side entry wiring capability, can be used with up to Ø20mm surface mounted conduit. Fixed output LED driver. Body: polycarbonate. Diffuser: opal polycarbonate. Class II electrical, IP66, IK10. Complete with 3000K LED. Suitable for direct mounting to wall or ceiling. Loop-in, loop-out is possible for cables up to 2.5mm². BESA compatible.

Dimensions: Ø328 x 84 mm
 Luminaire input power: 11.7 W
 Luminaire luminous flux: 1200 lm
 Luminaire efficacy: 103 lm/W
 Weight: 1.47 kg



Polar LDC

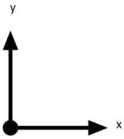
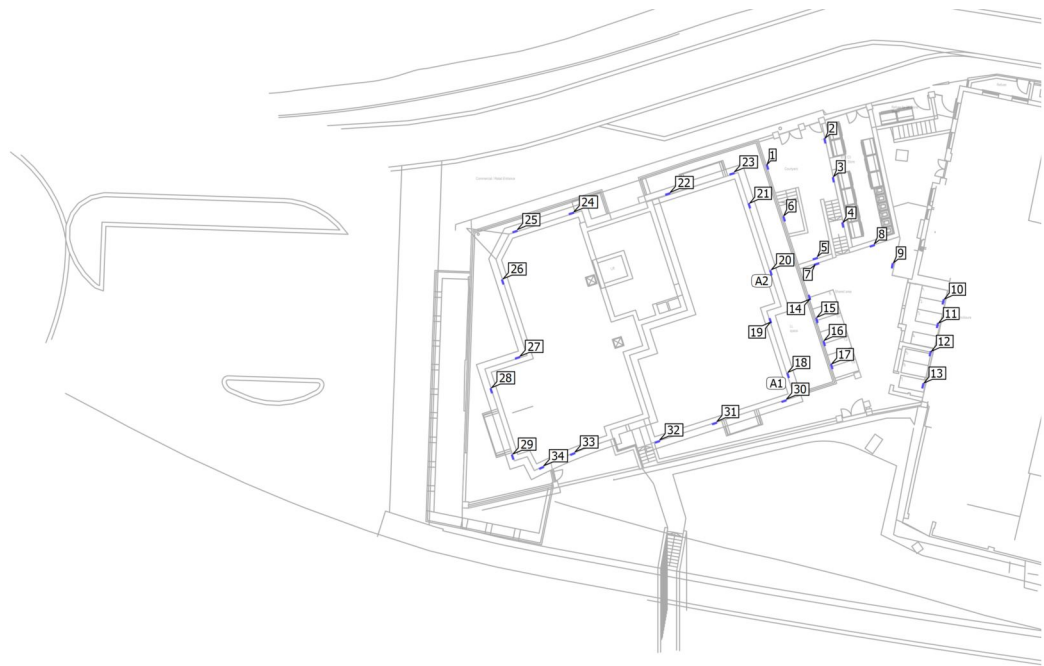
Glare evaluation according to UGR												
p Ceiling	70	70	50	50	30	70	70	50	50	30		
p Walls	50	30	50	30	30	50	30	50	30	30		
p Floor	20	20	20	20	20	20	20	20	20	20		
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	18.1	19.4	18.4	19.7	19.9	18.1	19.4	18.4	19.7	19.9	
	3H	19.5	20.6	19.8	21.0	21.3	19.5	20.6	19.8	21.0	21.3	
	4H	20.0	21.1	20.4	21.4	21.8	20.0	21.1	20.4	21.4	21.8	
	6H	20.5	21.5	20.9	21.9	22.2	20.5	21.5	20.9	21.9	22.2	
	8H	20.7	21.7	21.1	22.0	22.4	20.7	21.7	21.1	22.0	22.4	
	12H	20.8	21.8	21.2	22.2	22.5	20.8	21.8	21.2	22.2	22.5	
4H	2H	18.7	19.8	19.0	20.1	20.5	18.7	19.8	19.0	20.1	20.5	
	3H	20.2	21.2	20.7	21.6	22.0	20.2	21.2	20.7	21.6	22.0	
	4H	20.9	21.8	21.3	22.2	22.6	20.9	21.8	21.3	22.2	22.6	
	6H	21.5	22.3	22.0	22.7	23.2	21.5	22.3	22.0	22.7	23.2	
	8H	21.8	22.5	22.3	23.0	23.4	21.8	22.5	22.3	23.0	23.4	
	12H	22.0	22.7	22.5	23.1	23.6	22.0	22.7	22.5	23.1	23.6	
8H	4H	21.2	21.9	21.7	22.3	22.8	21.2	21.9	21.7	22.3	22.8	
	6H	22.0	22.6	22.5	23.0	23.6	22.0	22.6	22.5	23.0	23.6	
	8H	22.4	22.9	22.9	23.4	23.9	22.4	22.9	22.9	23.4	23.9	
	12H	22.7	23.1	23.2	23.6	24.2	22.7	23.1	23.2	23.6	24.2	
	4H	21.2	21.9	21.7	22.3	22.8	21.2	21.9	21.7	22.3	22.8	
	6H	22.1	22.6	22.6	23.1	23.6	22.1	22.6	22.6	23.1	23.6	
12H	8H	22.5	22.9	23.0	23.5	24.0	22.5	22.9	23.0	23.5	24.0	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1					
S = 1.5H		+0.2 / -0.4					+0.2 / -0.4					
S = 2.0H		+0.4 / -0.7					+0.4 / -0.7					
Standard table		BK06					BK06					
Correction summand		5.3					5.3					
Corrected glare indices referring to 1200lm Total luminous flux												

UGR diagram (SHR: 0.25)

Proposed External Site Layout

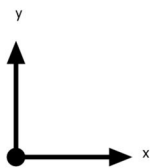
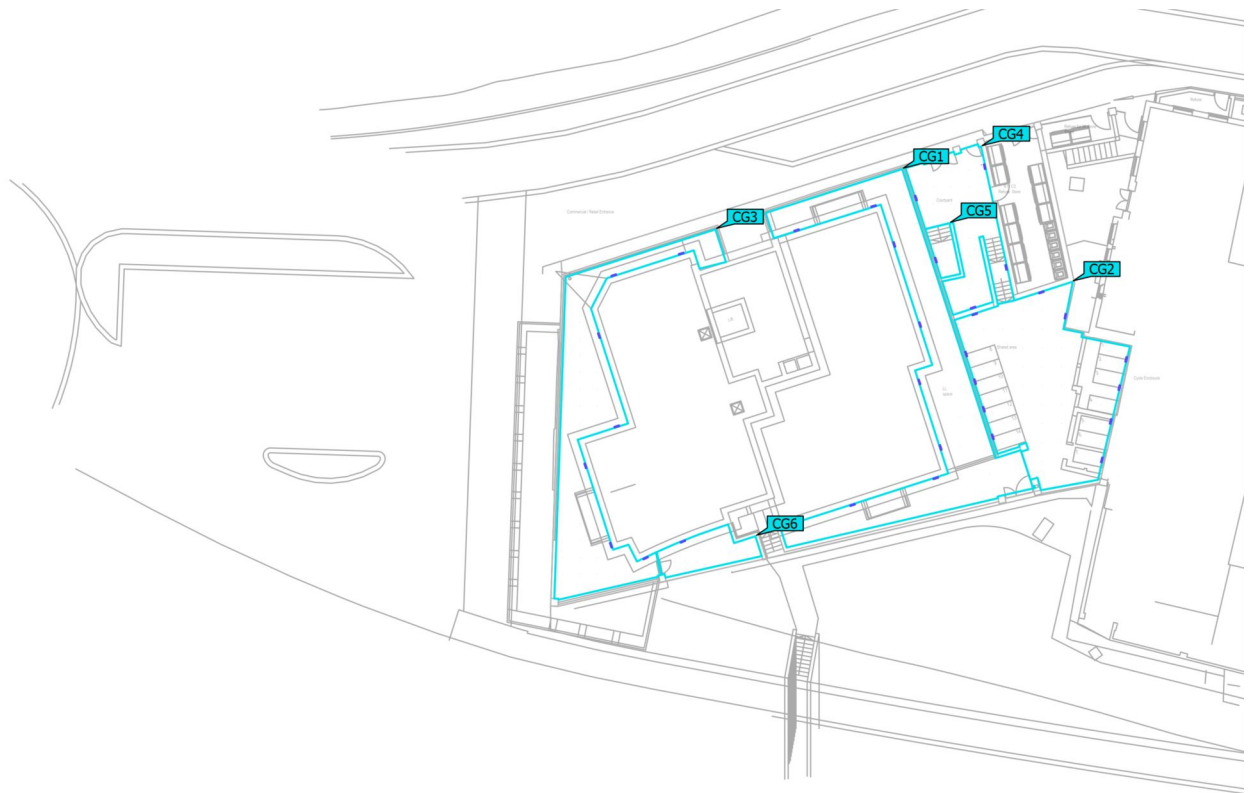
Luminaire layout plan

Proposed Site Lighting Layout



Proposed External Site Layout (Light scene 1)

Calculation objects



Proposed External Site Layout (Light scene 1)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
Calculation surface 2 Perpendicular illuminance Height: 4.050 m	11.6 lx	2.85 lx	20.1 lx	0.25	0.14	CG1
Calculation surface 5 Perpendicular illuminance Height: 4.050 m	44.6 lx	0.000 lx	109 lx	0.00	0.00	CG2
Calculation surface 12 Perpendicular illuminance Height: 4.050 m	13.0 lx	1.39 lx	24.2 lx	0.11	0.057	CG3
Calculation surface 13 Perpendicular illuminance Height: 0.808 m	30.7 lx	0.056 lx	53.7 lx	0.002	0.001	CG4
Calculation surface 14 Perpendicular illuminance Height: 0.400 m	44.6 lx	0.003 lx	90.1 lx	0.000	0.000	CG5
Calculation surface 15 Perpendicular illuminance Height: 4.050 m	11.9 lx	2.46 lx	29.9 lx	0.21	0.082	CG6

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Lux level and value chart

