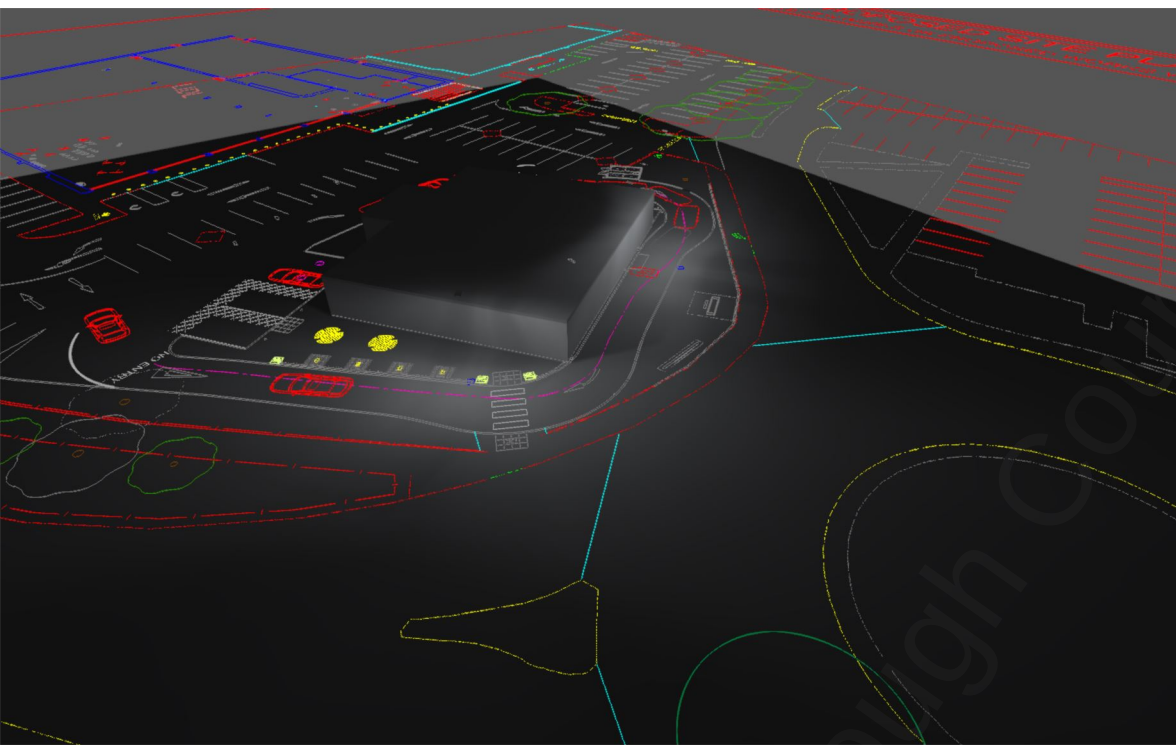
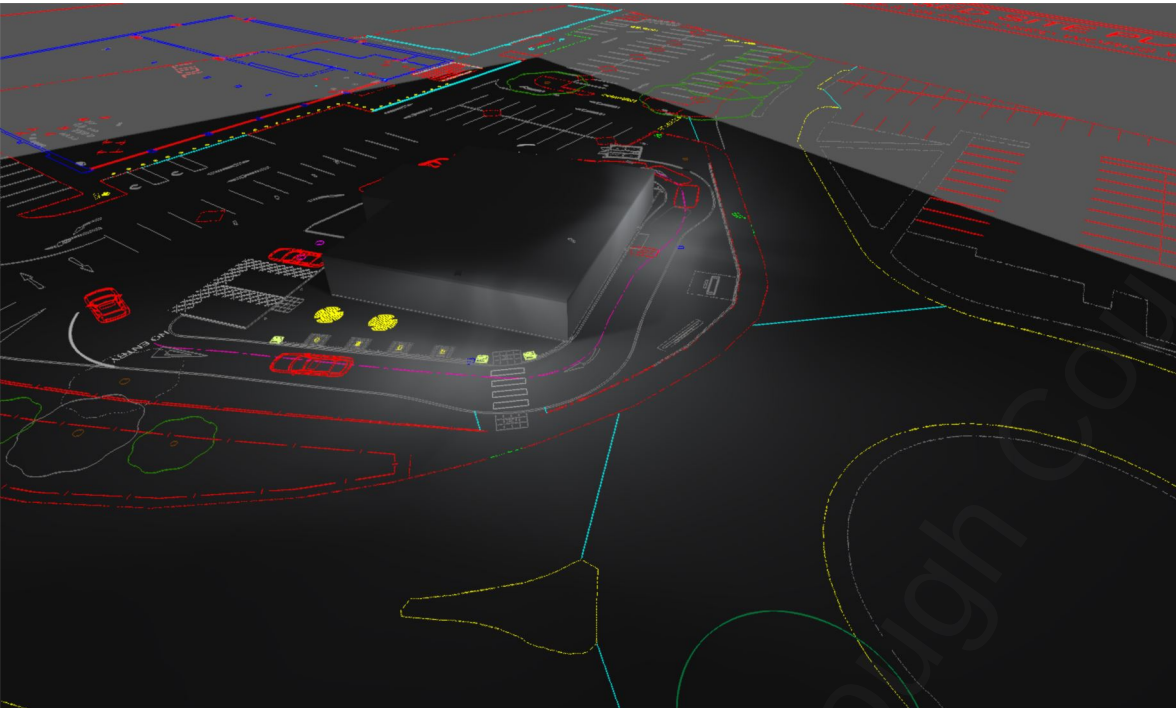




Tim Hortons Gravesend REV 4 EXT

Additional lighting columns for Drive Thru lane.



Description

This additional lighting has been designed to comply with BS5489 Exterior Car Park Heavy traffic, we believe this drive thru lane should be considered as heavy traffic due to the peak busy periods becoming very busy and mixture of vehicle and pedestrians walking across the space at multiple points.

With this in mind we have designed this drive thru lane to heavy traffic, 20 Lux average and 0.25 uniformity.

We have also taken the ILP Guidance for the reduction of obtrusive light 2021 into account when designing this site. We consider this site to be Zone E4 Urban.

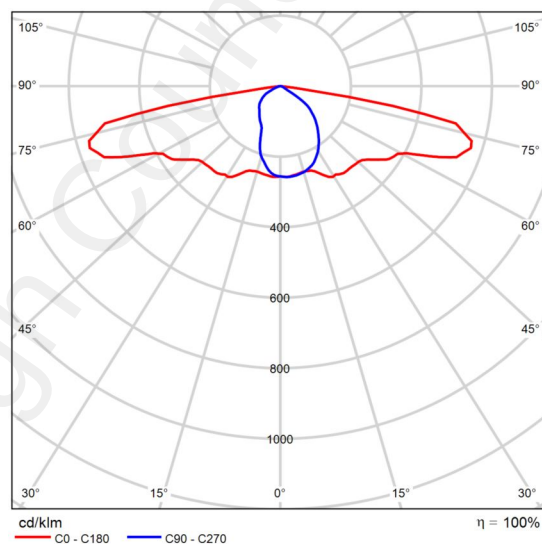
Our fittings do not need to be angled to achieve these lighting levels and have 0% upward lighting distribution. The calculation provides the the average Lux levels for the south and east elevation ensuring these do not break the 25Lux pre Curfew limit.

Product data sheet

FAGERHULT - Evolume1 9300LM 12LED 730 E2 Class I

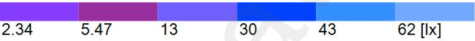
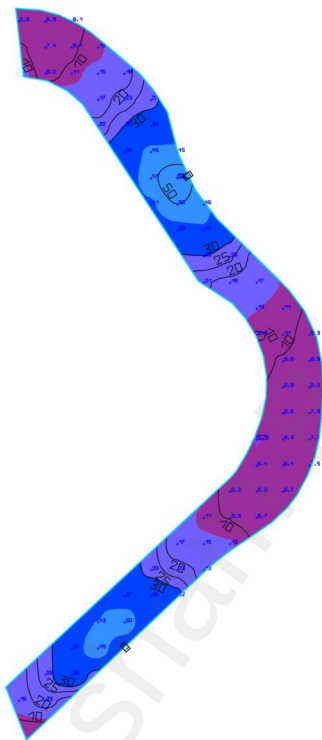


Article No.	303393-480
P	87.0 W
Φ_{Lamp}	9300 lm
$\Phi_{\text{Luminaire}}$	9298 lm
η	99.97 %
Luminous efficacy	106.9 lm/W
CCT	3000 K
CRI	70



Polar LDC

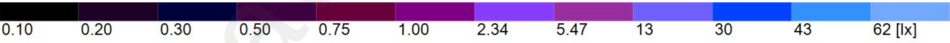
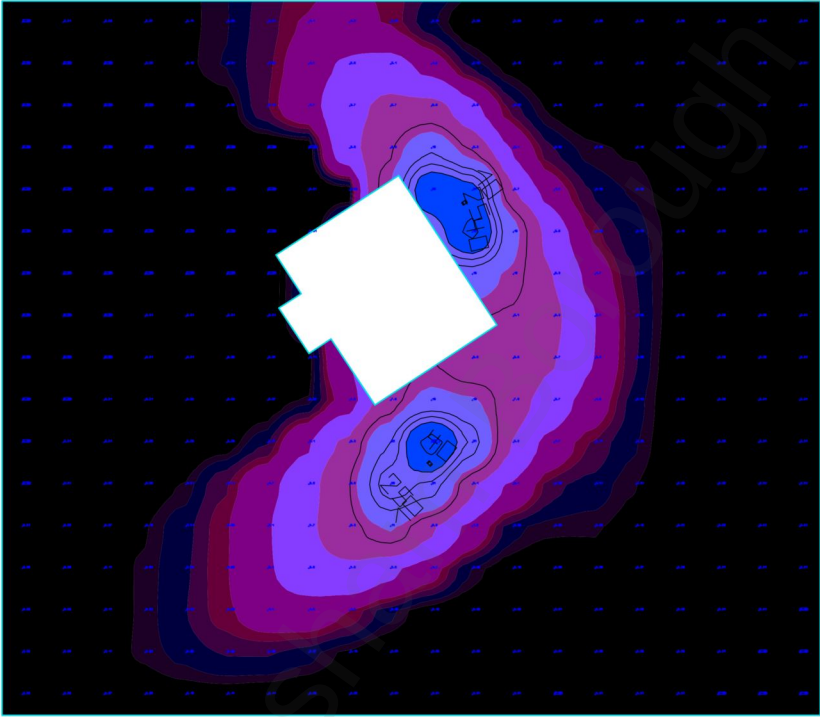
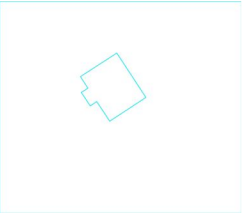
(Light scene 1)
Drive Thru



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2
Drive Thru	21.5 lx	5.35 lx	55.6 lx	0.25	0.096
Perpendicular illuminance					
Height: 0.000 m					

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

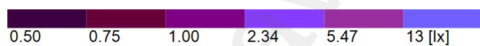
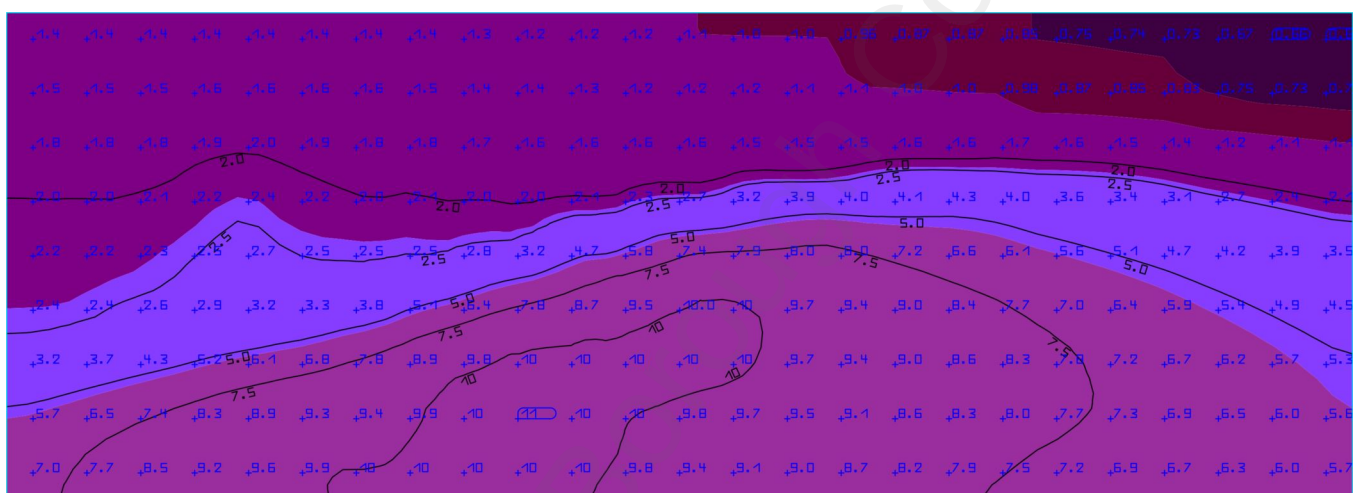
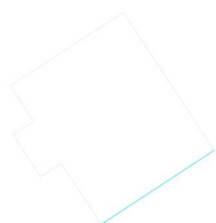
Site 1 (Light scene 1)
Surrounding Area



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2
Surrounding Area	1.87 lx	0.000 lx	43.4 lx	0.00	0.00
Perpendicular illuminance					
Height: 0.000 m					

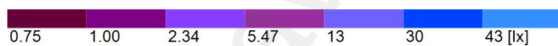
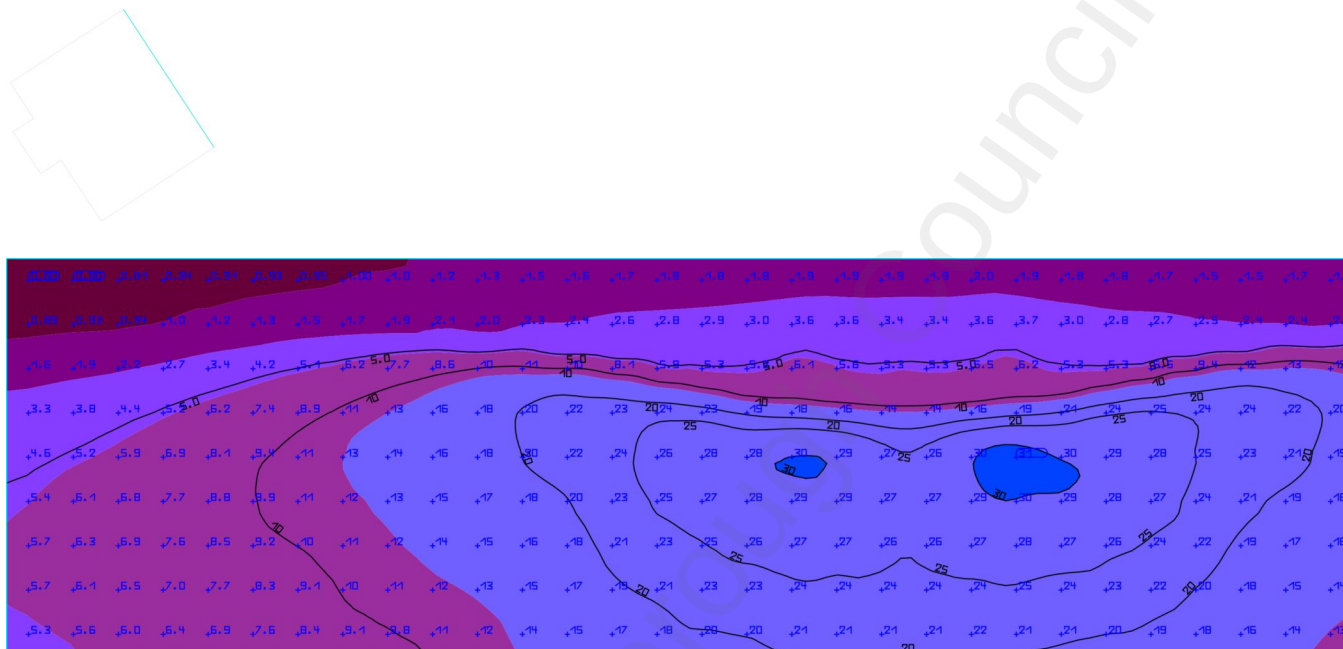
Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Building 1 · Storey 1 (Light scene 1)

South elevation

Properties	$\bar{E}$	$E_{\min}$	$E_{\max}$	g_1	g_2
South elevation	4.66 lx	0.65 lx	10.6 lx	0.14	0.061
Perpendicular illuminance (adaptive)					
Height: 3.000 m					

Building 1 · Storey 1 (Light scene 1)

East elevation

Properties	$\bar{E}$	$E_{\min}$	$E_{\max}$	g_1	g_2
East elevation	12.9 lx	0.78 lx	30.9 lx	0.060	0.025
Perpendicular illuminance (adaptive)					
Height: 3.000 m					