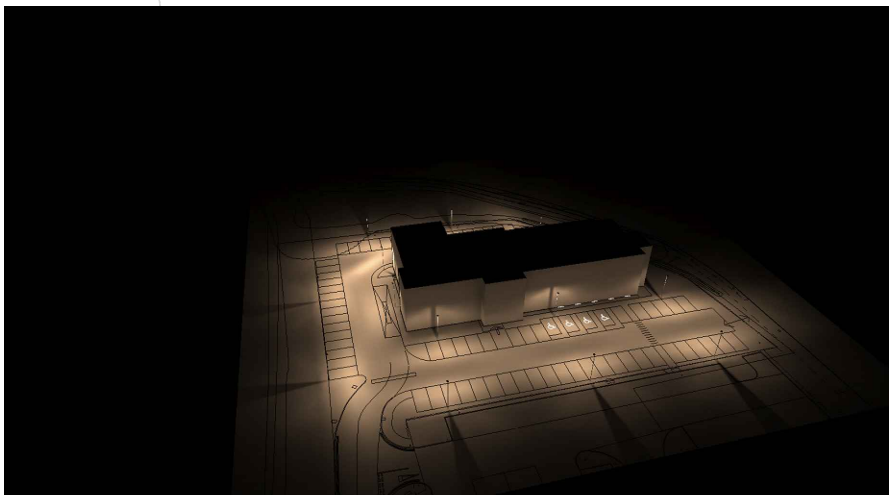
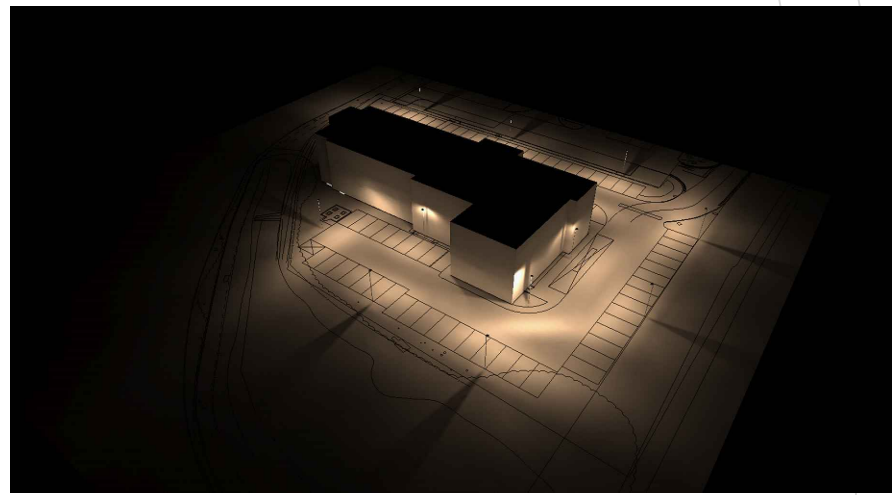




Dimensions are not to be scaled from this drawing.



BREEAM

Pol 04 Reduction of night time light pollution

Table 1 - Environmental Zones		
Zone	Surrounding Environment	Example
E1	Industrial	Logistics/Storage/Industrial, Data Park, etc.
E2	Natural	Unimproved land, areas of outstanding natural beauty, etc.
E3	Rural	Low density residential, etc.
E4	Suburban	Medium density residential, etc.
E5	Urban	High density residential, etc.

Table 2 - Obscure Light Limitations for Exterior Lighting Installations - General					
Obscure	Light Emission (lm)	Light Emission (lm)	Light Emission (lm)	Light Emission (lm)	Light Emission (lm)
E1	0	0	0	0	0
E2	0	0	0	0	0
E3	0	0	0	0	0
E4	0	0	0	0	0
E5	0	0	0	0	0

BREEAM

P25408 - Premier Inn Hotel, Langstone Road

		LAMP		Circuit						ART		CO ₂ Calculation for year		Compliance with EN 03
Qty	Range	Lumens	Watts	Lm/W	LOR	Total Lumens	ULR	Upward Lmms	RA	Hour Per Day	CO ₂ (Tonsnes)	kWh/year		
14	Class 1	8000	22.6	162.83	70.2%	28793.6	0.02%	0	85	12	2.36	4358.47	Pass	

Table 1 compliance	Environmental zone	ES	Total Electrical consumption (Kwh)	9.9
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Day Glow	5.00%	0.00%	Pass
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Source: Internet by Grandfield et al.

Light Trespass into windows (Lux)	100	0	Pass	Note - we have assumed the windows are closed on 7 Jan. Current
Pre carlow	10	0	Pass	Note - we have not been able to calculate this as no housing is shown on the drawing

Building Luminance (cd/m²)	10
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Category	Target	Actual	Score
Light Pollution	0.00	0.00	0.00

Category	Target	Actual	Score
Light Pollution	0.00	0.00	0.00

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Light Pollution	0.00	0.00	0.00

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Light Pollution	0.00	0.00	0.00

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Category	Target	Actual	Score
Light Pollution	0.00	0.00	0.00

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Category	Target	Actual	Score
Light Pollution	0.00	0.00	0.00

Category	Target	Actual	Score
Light Pollution	0.00	0.00	0.00

90°



Revision	Date	Description	Initials
A	18/05/15	SITE PLAN UPDATED	JJB



Kingfisher Lighting



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Project Title
Premier Inn Hotel, Langstone Road

Scale
1:200 at A1

Project No
B25408-A KINGFISHER

Date
18/5/2015

Drawing No
B25408/PY/A

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Calculation Summary	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Car Park	Illuminance	Lux	16.53	55	5	0.30	0.09

Luminaire Schedule				
Symbol	Qty	Label	Arrangement	Description
1	A	60w Cosmopolis Kaos 1 Road lantern (P0 lamp position) column mounted at 6m.	SINGLE	
13	B	60w Cosmopolis Kaos 1 Road lantern with Spill Shield (P0 lamp position) column mounted at 6m.	SINGLE	