

HOLOPHANE[®]

BREEAM Calculator

[ILP Guidance notes on Obtrusive light](#)

BREEAM information can be found at; <http://www.breeam.org/page.jsp?id=301>

Job Name and Number : **P155-1618 Saltbox**

	Lumens <i>OR</i> for LED , Luminaire				Required LLM/TcW		60		BREEAM	Lumens		Upward
	Fitting	Quantity	Lumens	LOR	Circuit Watts	Luminaire Lumens	LLM/TcW	Automatic Controls?		Exiting fittings	fitting	
									ACHIEVED?			fittings
Green = Insert Correct Information												
DSX2.2.LA304.FW	41	30188	100%	282	30188	107	YES	YES	1237708	0.0%	0	
DSX1.2.084.FW	28	8450	100%	68	8450	124	YES	YES	236600	0.0%	0	
DEW.LA014.NR	35	1150	97%	12	1118.95	93	YES	YES	39163.25	3.0%	1207.5	
DSX1.2.LA064.AY	32	6653	100%	75	6653	89	YES	YES	212896	0.0%	0	
DSX1.2.LA054.AY	88	4870	100%	36	4870	135	YES	YES	428560	0.0%	0	
Total Circuit Watts of installation					19454		Total LLM/Tcw		110.8	Average Initial luminous efficacy above 60LLM/TcW		
		"Automatic controls" based on Site controls or remote photocell?						YES				
Total Lumens out of fittings:			2154927.25		Total upward Lumens (out of fittings):						1207.5	

Installation ULR : 0.06%

Installation ULR = (Total upward Lumens / Total Lumens out of fittings)

Permissible ULR % (for each environmental Zone): E0 and E1 -- 0% E2 up to 2.5% E3 up to 5% E4 up to 15%

The above ULR means that scheme complies to environmental zone(s):

E2 & E3 & E4

Note: this Environmental Zone level is based solely on the ULR.

HEL453(A)