DCTECHAPP

Engineering Services Partnership Ltd
11 Swan Court
Cygnet Park
Hampton
Peterborough
PE7 8GX

Site Signage Lighting Report ASDA Hinckley

Project:	Hinckley Remodel 2011			**Project No:**	9442
Client:	ASDA Stores Ltd			**Report No:**	001
Architect:	RPSD – Matt Haynes				
Main Contractor:	Uplands				
Engineers:	PBD/MM/DDK/GMcG	**Date:**	20th April 2011	**ESP File Ref:**	9442-18-110420

Brief report on effect of new internally illuminated signage for store front.

The existing store front sign is externally illuminated by way of 3 no flood lights mounted in front of the sign and slightly to the lower part shining up onto the sign.

The illumination levels of the existing installation are generally as follows:

Lamps 70W son* = 6800lm per lamp
*assumed as proto

Calculated lumens for existing signage installation – 3 x 6800 = **20,400** lumens.

The lumen rating of the new sign is as follows:

The illumination levels of the new installation are generally as follows:

Output of light source within sign = 1000 candela* of LED sources

Lumen output of new sign – 1000 x 12.75 = **12,570**** lumens

* Figure given by signage manufacturer
**Worst case level given for report, actual lumen level could be significantly lower depending upon the actual Led sources used within the sign

From the calculation it can be ascertained that the illumination of the new sign will generally be **approximately 60%** of the illumination level of the existing installation.

It must also be noted that the existing installation causes a significant amount of upwards and rearwards light pollution due to the flood lights being aimed in an upwards direction at the sign. The new sign being internally illuminated will have minimal upwards light pollution.

The perception of the sign being internally illuminaited will be that it will be glaring out to the local area, but the actuality is that the lighting levels are significantly reduced due to a more efficient use of less lighting output and the internal illumination method of lighting the sign.

DCTECHAPP

Engineering Services Partnership Ltd
11 Swan Court
Cygnet Park
Hampton
Peterborough
PE7 8GX

Site Signage Lighting Report ASDA Hinckley

Project:	Hinckley Remodel 2011			**Project No:**	9442
Client:	ASDA Stores Ltd			**Report No:**	001
Architect:	RPSD – Matt Haynes				
Main Contractor:	Uplands				
Engineers:	PBD/MM/DDK/GMcG	**Date:**	20th April 2011	**ESP File Ref:**	9442-18-110420

Brief report on effect of new internally illuminated signage for store front.

The existing store front sign is externally illuminated by way of 3 no flood lights mounted in front of the sign and slightly to the lower part shining up onto the sign.

The illumination levels of the existing installation are generally as follows:

Lamps 70W son* = 6800lm per lamp
*assumed as proto

Calculated lumens for existing signage installation – 3 x 6800 = **20,400** lumens.

The lumen rating of the new sign is as follows:

The illumination levels of the new installation are generally as follows:

Output of light source within sign = 1000 candela* of LED sources

Lumen output of new sign – 1000 x 12.75 = **12,570**** lumens

* Figure given by signage manufacturer
**Worst case level given for report, actual lumen level could be significantly lower depending upon the actual Led sources used within the sign

From the calculation it can be ascertained that the illumination of the new sign will generally be **approximately 60%** of the illumination level of the existing installation.

It must also be noted that the existing installation causes a significant amount of upwards and rearwards light pollution due to the flood lights being aimed in an upwards direction at the sign. The new sign being internally illuminated will have minimal upwards light pollution.

The perception of the sign being internally illuminaited will be that it will be glaring out to the local area, but the actuality is that the lighting levels are significantly reduced due to a more efficient use of less lighting output and the internal illumination method of lighting the sign.

DCTECHAPP

Engineering Services Partnership Ltd
11 Swan Court
Cygnet Park
Hampton
Peterborough
PE7 8GX

Site Signage Lighting Report ASDA Hinckley

Project:	Hinckley Remodel 2011			**Project No:**	9442
Client:	ASDA Stores Ltd			**Report No:**	001
Architect:	RPSD – Matt Haynes				
Main Contractor:	Uplands				
Engineers:	PBD/MM/DDK/GMcG	**Date:**	20th April 2011	**ESP File Ref:**	9442-18-110420

Brief report on effect of new internally illuminated signage for store front.

The existing store front sign is externally illuminated by way of 3 no flood lights mounted in front of the sign and slightly to the lower part shining up onto the sign.

The illumination levels of the existing installation are generally as follows:

Lamps 70W son* = 6800lm per lamp
*assumed as proto

Calculated lumens for existing signage installation – 3 x 6800 = **20,400** lumens.

The lumen rating of the new sign is as follows:

The illumination levels of the new installation are generally as follows:

Output of light source within sign = 1000 candela* of LED sources

Lumen output of new sign – 1000 x 12.75 = **12,570**** lumens

* Figure given by signage manufacturer
**Worst case level given for report, actual lumen level could be significantly lower depending upon the actual Led sources used within the sign

From the calculation it can be ascertained that the illumination of the new sign will generally be **approximately 60%** of the illumination level of the existing installation.

It must also be noted that the existing installation causes a significant amount of upwards and rearwards light pollution due to the flood lights being aimed in an upwards direction at the sign. The new sign being internally illuminated will have minimal upwards light pollution.

The perception of the sign being internally illuminaited will be that it will be glaring out to the local area, but the actuality is that the lighting levels are significantly reduced due to a more efficient use of less lighting output and the internal illumination method of lighting the sign.