



CALCULATED DIRECT LIGHT ASSESSMENT HORIZONTAL AND VERTICAL IMPACT VALUES FOR ECOLOGY (INCLUSIVE OF APPROX TERRAIN, MF = 1.0)

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DESIGN INTENT SUMMARY AND ASSESSMENT SUMMARY
BEING A SUBURBAN ENVIRONMENT THE ENVIRONMENTAL ZONE IS CONSIDERED TO BE E3.

BASED ON LIGHTING STANDARDS:
BS EN12464, BS 5489-1, BS EN 13201-2

THE EXTERNAL LIGHTING INTENT IS PRINCIPALLY BASED ON ACHIEVING THE PRELIMINARY USER REQUIREMENTS OF:

EXTERNAL CARPARK - AVERAGE 5 LUX, 25% Uo
ACCESS ROADWAYS - P4 - 5 LUX min ave / 1 LUX min

PATHWAYS - WAYFINDING ONLY

ENTRANCES - 10 to 20 LUX AVE

COVERED STAIRS AND CORRIDORS - 100 LUX AVE

COVERED CARPARK - ENTRANCES AND EXITS:
DAILY LIGHT HOURS: 300 LUX / 40% Uo
AT NIGHT: 75 LUX / 40% Uo
TRAFFIC LANES & INTERNAL RAMPS: 75 LUX / 40% Uo
PARKING AREAS (NOT PUBLIC): 75 LUX / 25% Uo

OPEN FOOTBRIDGE - 20 LUX AVE, 10 LUX MIN

NOTE:

- DESIGN ILLUMINANCE BASED ON A TYPICAL 0.8 MAINTENANCE FACTOR.
- ASSESSMENT ILLUMINANCE BASED ON A 1.0 MAINTENANCE FACTOR.
- ASSESSMENT UNDERTAKEN BASED ON APPROX. TERRAIN AND WITH THE EXCLUSION OF THE POTENTIAL LIGHT SCREENING BENEFITS OF TREES AND FLORA.
- ASSESSMENT VALUES ILLUSTRATED ARE BASED ON SIMULATION, WHILST EVERY ATTEMPT HAS BEEN MADE WITH RESPECT TO THE ACCURACY OF THESE PREDICTED RESULTS, DUE TO POSSIBLE UNKNOWN VARIANCES IN CALCULATION PARAMETERS, THERE COULD BE NOMINAL DEVIATION FROM CALCULATED AND ACTUAL POST MEASURED VALUES.
- AS PER STANDARD PRACTICE AND UNLESS OTHERWISE INDICATED ALL CALCULATIONS ARE BASED ON THE DIRECT LIGHT COMPONENT.
- WHERE POSSIBLE THIS LIGHTING STRATEGY FOLLOWS PUBLISHED GUIDANCE PROVIDED BY THE INSTITUTE OF LIGHTING PROFESSIONALS (ILP) AND BAT CONSERVATION TRUST (BCT) GUIDANCE NOTE 08 / 23 - BATS AND ARTIFICIAL LIGHTING IN THE UK

ASSESSMENT CONCLUSION
AS CAN BE SEEN FROM THE ADJACENT ASSESSMENT TABLE:

ECOLOGY E1 TO E19 AND TREES T1 / T2 -

IN THE ABSENCE OF PUBLISHED LIMITING THRESHOLDS, LIGHT SPILL IS LIMITED TO BE BELOW 1.0 LUX ON THE VERTICAL PLANE (2m - 10m), NO FURTHER DESIGN MITIGATION REQUIRED

LUMINOUS INTENSITY (GLARE) -
DUE TO LUMINAIRES BEING OF LIMITED INTENSITY, CONSIDERED ANGLE OF DIRECTION AND SUITED FOR PUBLIC REALM APPLICATIONS (ROADWAYS / PEDESTRIAN), GLARE IS NOT CONSIDERED TO BE APPLICABLE - NO FURTHER DESIGN MITIGATION REQUIRED

DIRECT SKYGLOW -
DUE TO ALL LUMINAIRES BEING DOWNLIGHT OR COVERED, DIRECT SKYGLOW IS NOT CONSIDERED TO BE AN ISSUE - NO FURTHER DESIGN MITIGATION REQUIRED

Light Pad
LIGHT PLANNING AND DESIGN LTD
ASSESSMENT / INTERIOR / EXTERIOR / DAYLIGHT / ECOLOGY

CURRENT
SHALL DO HAYES DEVELOPMENTS LIMITED

PROJECT
HAYES PARK WEST

DRAWING TITLE
PRELIMINARY EXTERNAL LIGHTING AND ASSESSMENT

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