



| Lighting Schedule Project Total (for mast arrangements see table/s below) |     |     |                                   |                     |                 |                  |
|---|-----|-----|-----------------------------------|---------------------|-----------------|------------------|
| Symbol  | Tag | Qty | Description                       | Mounting Height (m) | Luminaire Watts | Luminaire Lumens |
| ☐   | A   | 15  | AL6102_15752S<br>Challenger 1 LED | 15                  | 1539            | 203437           |

| Mast Arrangement M1,M2,M3 |     |     |                                   |                     |                 |                  |
|---------------------------|-----|-----|-----------------------------------|---------------------|-----------------|------------------|
| Symbol                    | Tag | Qty | Description                       | Mounting Height (m) | Luminaire Watts | Luminaire Lumens |
| ☐                         | A   | 2   | AL6102_15752S<br>Challenger 1 LED | 15                  | 1539            | 203437           |

| Mast Arrangement M4,M5,M6 |     |     |                                   |                     |                 |                  |
|---------------------------|-----|-----|-----------------------------------|---------------------|-----------------|------------------|
| Symbol                    | Tag | Qty | Description                       | Mounting Height (m) | Luminaire Watts | Luminaire Lumens |
| ☐                         | A   | 3   | AL6102_15752S<br>Challenger 1 LED | 15                  | 1539            | 203437           |

| Horizontal Illuminance Levels                           |             |       |     |         |         |      |
|---|-------------|-------|-----|---------|---------|------|
| Premier League Stadium Fund Specification - 2.5m Instep |             |       |     |         |         |      |
| Label   | CalcType    | Units | Avg | Min/Avg | Min/Max |      |
| Football Pitch  | Illuminance | Lux   | 200 | 0.60    |         | 0.30 |

| Calculation Summary                        |             |       |     |     |     |         |         |
|--|-------------|-------|-----|-----|-----|---------|---------|
| Initial Calculations - Separately Switched |             |       |     |     |     |         |         |
| Label                                      | CalcType    | Units | Avg | Max | Min | Min/Avg | Min/Max |
| Football Pitch                             | Illuminance | Lux   | 223 | 401 | 144 | 0.64    | 0.36    |
| Training Area                              | Illuminance | Lux   | 74  | 180 | 21  | 0.28    | 0.12    |

| Calculation Summary                           |             |       |     |     |     |         |         |
|---|-------------|-------|-----|-----|-----|---------|---------|
| Maintained Calculations - Separately Switched |             |       |     |     |     |         |         |
| Label   | CalcType    | Units | Avg | Max | Min | Min/Avg | Min/Max |
| Football Pitch                                | Illuminance | Lux   | 201 | 361 | 129 | 0.64    | 0.36    |
| Training Area                                 | Illuminance | Lux   | 67  | 162 | 19  | 0.29    | 0.12    |

| Area Summary   |             |
|----------------|-------------|
| Label          | Total Watts |
| Football Pitch | 18,468      |



| Calculation Grid Intervals |         |
|----------------------------|---------|
| Label                      | Grid    |
| Football Pitch             | 11 x 8  |
| Training Area              | 5m x 5m |

**Obtrusive Light - Compliance Report**  
CIE 150:2017, E2-Low District Brightness, Pre-Cut-off  
Filename: LS4064113-1 Hadleigh United FC  
21/03/2024 09:20:31

| Area Dimensions |             |
|-----------------|-------------|
| Area            | L (m) W (m) |
| Football Pitch  | 100 68.5    |

| Illuminance                    |              |             |
|--------------------------------|--------------|-------------|
| Maximum Allowable Value: 5 Lux |              |             |
| Calculation Label              | Test Results | Max. Illum. |
| Benton St_0_Seg1               | PASS         | 2           |
| Benton St_1_IL_Seg1            | PASS         | 2           |
| Benton St_2_IL_Seg1            | PASS         | 2           |
| Benton St_3_IL_Seg1            | PASS         | 1           |
| Benton St_4_IL_Seg1            | PASS         | 1           |
| Benton St_5_IL_Seg1            | PASS         | 1           |
| Benton St_6_IL_Seg1            | PASS         | 1           |

| Glare Summary |       |
|---------------|-------|
| Label         | GRmax |
| Glare Rating  | 48    |

| Isoline Legend    |       |
|-------------------|-------|
| Illuminance (Lux) | Value |
| 2                 | 2     |
| 5                 | 5     |
| 10                | 10    |
| 20                | 20    |
| 50                | 50    |

**Maintenance Factor 0.9**  
LED Lifetime  
L80B10: > 60,000 hours  
Dirt depreciation factor:  
BSS489-1:2020 Table C.1  
12 month cleaning intervals

**Notes:**  
This scheme has been designed based upon a flat and open area. Shadowing from obstructions have not been taken into account.  
Drawing and mast locations converted from satellite image, please check dimensions before ordering and installing.  
Customer to confirm suitability and structural integrity of existing masts prior to placing an order.  
Initial levels shown on drawing.  
All areas have been calculated separately.  
Iso lines and obtrusive light calculated with all luminaires switched on.

