## NOTES

**Scheme is based on Mini Pextina and Denver Elite Bollard.**

**All units use LEDs.**

**Any questions regarding these drawings should be addressed to:**
**Simon Tibble at Holophane Lighting**
**07764 336805 or stibble@holophane.co.uk**

**All dimensions should be checked, the design assumes that there will be no obstructions.**

**Holophane Europe Limited offer a Lighting Design Service in good faith and without charge. Every effort is made to ensure we interpret design briefs accurately and in turn provide suitable and detailed proposals. However, the final responsibility for the design and any recommendations offered lies with the client, customer. Checking that any proposal meets current Standards or clients requirements is the responsibility of the customer.**

**Holophane Europe Limited does not therefore accept any liability for loss or damage incurred for design misinterpretation.**

**Results provided within this proposal are derived from specific product photometry; the substitution of luminaires either with alternative Holophane luminaires or from other manufacturers products may not produce the same results.**

## LUMINAIRE LOCATIONS

| No. | Label | Location X | Location Y | Location Z | MH | Orientation | Tilt |
|---|---|---|---|---|---|---|---|
| 1 | A | -96.0 | 120.0 | 4.0 | 4.0 | 153.9 | 0.0 |
| 2 | A | -88.6 | 105.0 | 4.0 | 4.0 | -29.7 | 0.0 |
| 3 | A | -76.6 | 129.5 | 4.0 | 4.0 | 153.9 | 0.0 |
| 4 | A | -56.8 | 138.9 | 4.0 | 4.0 | 153.9 | 0.0 |
| 5 | A | -69.6 | 115.0 | 4.0 | 4.0 | -29.7 | 0.0 |
| 6 | A | -48.5 | 125.8 | 4.0 | 4.0 | -29.7 | 0.0 |
| 7 | A | -31.1 | 73.4 | 4.0 | 4.0 | 150.9 | 0.0 |
| 8 | A | -11.0 | 84.2 | 4.0 | 4.0 | 152.4 | 0.0 |
| 9 | A | -21.1 | 60.9 | 4.0 | 4.0 | -29.7 | 0.0 |
| 10 | A | 85.4 | 133.6 | 4.0 | 4.0 | 147.9 | 0.0 |
| 11 | A | 108.8 | 142.3 | 4.0 | 4.0 | 192.1 | 0.0 |
| 12 | A | 125.4 | 126.8 | 4.0 | 4.0 | 235.0 | 0.0 |
| 13 | A | 34.5 | 126.3 | 4.0 | 4.0 | 56.8 | 0.0 |
| 14 | A | 61.8 | 144.6 | 4.0 | 4.0 | 232.7 | 0.0 |
| 15 | C | 48.3 | 135.3 | 4.0 | 4.0 | 59.0 | 0.0 |
| 16 | A | 102.2 | 123.8 | 4.0 | 4.0 | -36.3 | 0.0 |
| 17 | D | -60.6 | 118.4 | 1.0 | 1.0 | 241.8 | 0.0 |
| 18 | D | -59.9 | 110.4 | 1.0 | 1.0 | -69.6 | 0.0 |
| 19 | D | -62.7 | 105.5 | 1.0 | 1.0 | -69.6 | 0.0 |
| 20 | D | -64.1 | 99.3 | 1.0 | 1.0 | -88.0 | 0.0 |
| 21 | D | -62.4 | 92.8 | 1.0 | 1.0 | 232.7 | 0.0 |
| 22 | D | -57.0 | 88.4 | 1.0 | 1.0 | 218.9 | 0.0 |
| 23 | D | -48.6 | 82.4 | 1.0 | 1.0 | 218.9 | 0.0 |
| 24 | E | -45.0 | 77.4 | 1.0 | 1.0 | 234.8 | 0.0 |
| 25 | D | -53.8 | 83.6 | 1.0 | 1.0 | 38.9 | 0.0 |
| 26 | D | -38.7 | 80.4 | 1.0 | 1.0 | 147.4 | 0.0 |
| 27 | D | -33.0 | 83.4 | 1.0 | 1.0 | 147.4 | 0.0 |
| 28 | D | -27.2 | 86.7 | 1.0 | 1.0 | 147.4 | 0.0 |
| 29 | D | -21.8 | 89.5 | 1.0 | 1.0 | 147.4 | 0.0 |
| 30 | D | -21.9 | 93.5 | 1.0 | 1.0 | 63.4 | 0.0 |
| 31 | D | -16.2 | 97.9 | 1.0 | 1.0 | -37.3 | 0.0 |
| 32 | D | -10.8 | 101.8 | 1.0 | 1.0 | -42.2 | 0.0 |
| 33 | D | -8.0 | 106.3 | 1.0 | 1.0 | -65.0 | 0.0 |
| 34 | A | 160.1 | 18.5 | 4.0 | 4.0 | -35.2 | 0.0 |
| 35 | A | 178.3 | 30.4 | 4.0 | 4.0 | -37.2 | 0.0 |
| 36 | A | 148.8 | 33.8 | 4.0 | 4.0 | 146.0 | 0.0 |
| 37 | A | 166.2 | 45.6 | 4.0 | 4.0 | 146.3 | 0.0 |
| 38 | D | 161.1 | 50.3 | 1.0 | 1.0 | 239.5 | 0.0 |
| 39 | D | 158.1 | 56.1 | 1.0 | 1.0 | 239.5 | 0.0 |
| 40 | D | 158.6 | 63.0 | 1.0 | 1.0 | -89.6 | 0.0 |
| 41 | D | 158.6 | 68.9 | 1.0 | 1.0 | -89.6 | 0.0 |
| 42 | D | 156.3 | 74.2 | 1.0 | 1.0 | 234.2 | 0.0 |
| 43 | D | 130.4 | 5.2 | 1.0 | 1.0 | 145.9 | 0.0 |
| 44 | D | 145.4 | 15.3 | 1.0 | 1.0 | 153.1 | 0.0 |
| 45 | D | 137.4 | 10.0 | 1.0 | 1.0 | 144.0 | 0.0 |
| 46 | F | 150.1 | 85.2 | 3.0 | 3.0 | 56.5 | 0.0 |
| 47 | F | 127.4 | 89.3 | 3.0 | 3.0 | -36.9 | 0.0 |
| 48 | D | 136.3 | 91.4 | 1.0 | 1.0 | 231.0 | 0.0 |
| 49 | D | 143.9 | 94.2 | 1.0 | 1.0 | 183.7 | 0.0 |
| 50 | D | 135.6 | 106.2 | 1.0 | 1.0 | -42.1 | 0.0 |
| 51 | E | 130.1 | 102.4 | 1.0 | 1.0 | -35.4 | 0.0 |
| 52 | D | 125.0 | 99.0 | 1.0 | 1.0 | -42.1 | 0.0 |
| 53 | D | 118.9 | 94.9 | 1.0 | 1.0 | -42.1 | 0.0 |
| 54 | D | 113.5 | 91.2 | 1.0 | 1.0 | -42.1 | 0.0 |
| 55 | D | 107.6 | 87.1 | 1.0 | 1.0 | -42.1 | 0.0 |
| 56 | D | 1.3 | 85.8 | 1.0 | 1.0 | 56.3 | 0.0 |
| 57 | D | 0.1 | 91.5 | 1.0 | 1.0 | 151.9 | 0.0 |
| 58 | D | 1.6 | 79.3 | 1.0 | 1.0 | 148.6 | 0.0 |
| 59 | D | -6.1 | 75.0 | 1.0 | 1.0 | 144.3 | 0.0 |
| 60 | D | 7.1 | 74.2 | 1.0 | 1.0 | 43.2 | 0.0 |
| 61 | D | 9.0 | 69.6 | 1.0 | 1.0 | 118.6 | 0.0 |
| 62 | D | 4.2 | 62.1 | 1.0 | 1.0 | 133.4 | 0.0 |
| 63 | D | 13.6 | 65.1 | 1.0 | 1.0 | 55.7 | 0.0 |
| 64 | D | 17.2 | 57.8 | 1.0 | 1.0 | 59.3 | 0.0 |
| 65 | D | 21.0 | 51.5 | 1.0 | 1.0 | -90.0 | 0.0 |
| 66 | D | 30.0 | 54.7 | 1.0 | 1.0 | -35.4 | 0.0 |
| 67 | D | 38.4 | 60.3 | 1.0 | 1.0 | -38.4 | 0.0 |
| 68 | D | 45.5 | 64.8 | 1.0 | 1.0 | -39.4 | 0.0 |
| 69 | D | 45.9 | 71.3 | 1.0 | 1.0 | 225.0 | 0.0 |
| 70 | D | 41.6 | 77.2 | 1.0 | 1.0 | 235.1 | 0.0 |
| 71 | D | 37.8 | 83.3 | 1.0 | 1.0 | 232.1 | 0.0 |
| 72 | D | 35.2 | 87.6 | 1.0 | 1.0 | 239.5 | 0.0 |
| 73 | D | 31.2 | 92.8 | 1.0 | 1.0 | 243.0 | 0.0 |
| 74 | D | 27.4 | 98.5 | 1.0 | 1.0 | 233.7 | 0.0 |
| 75 | D | 36.8 | 93.5 | 1.0 | 1.0 | 97.8 | 0.0 |
| 76 | D | 37.2 | 100.6 | 1.0 | 1.0 | 79.8 | 0.0 |
| 77 | D | 36.6 | 107.5 | 1.0 | 1.0 | 77.6 | 0.0 |
| 78 | D | -39.1 | 125.9 | 1.0 | 1.0 | 57.1 | 0.0 |
| 79 | D | -35.7 | 118.9 | 1.0 | 1.0 | 59.6 | 0.0 |
| 80 | D | -32.4 | 112.1 | 1.0 | 1.0 | 55.7 | 0.0 |
| 81 | D | -28.7 | 104.5 | 1.0 | 1.0 | 64.3 | 0.0 |
| 82 | D | -25.8 | 98.4 | 1.0 | 1.0 | 60.5 | 0.0 |
| 83 | D | -33.6 | 142.6 | 1.0 | 1.0 | 190.6 | 0.0 |
| 84 | D | -28.2 | 143.9 | 1.0 | 1.0 | 143.1 | 0.0 |
| 85 | D | -24.6 | 148.5 | 1.0 | 1.0 | 116.6 | 0.0 |
| 86 | D | -22.2 | 154.1 | 1.0 | 1.0 | 118.0 | 0.0 |
| 87 | D | -7.8 | 117.1 | 1.0 | 1.0 | 245.7 | 0.0 |
| 88 | D | -4.8 | 112.5 | 1.0 | 1.0 | 215.3 | 0.0 |
| 89 | D | 0.9 | 112.5 | 1.0 | 1.0 | 126.2 | 0.0 |
| 90 | D | 4.3 | 118.0 | 1.0 | 1.0 | 84.3 | 0.0 |
| 91 | D | 3.7 | 123.3 | 1.0 | 1.0 | 63.4 | 0.0 |
| 92 | D | 19.0 | 122.7 | 1.0 | 1.0 | 263.3 | 0.0 |
| 93 | D | 20.3 | 117.3 | 1.0 | 1.0 | 220.1 | 0.0 |
| 94 | D | 25.5 | 116.6 | 1.0 | 1.0 | 156.0 | 0.0 |

**Plan View**
Scale 1 : 500

## STATISTICS

| Description | Symbol | Avg | Max | Min | Min/Max | Min/Avg |
|---|---|---|---|---|---|---|
| Calc Zone #8 | + | 20 lux | 72 lux | 1 lux | 0.01 | 0.05 |
| Calc Zone #9 | × | 14 lux | 72 lux | 1 lux | 0.01 | 0.07 |
| Calc Zone #11 | × | 13 lux | 72 lux | 0 lux | 0.00 | 0.00 |
| Calc Zone #12 | × | 6 lux | 72 lux | 0 lux | 0.00 | 0.00 |
| Calc Zone #13 | × | 15 lux | 71 lux | 0 lux | 0.00 | 0.00 |
| Calc Zone #14 | □ | 20 lux | 63 lux | 1 lux | 0.02 | 0.05 |
| Calc Zone #15 | □ | 21 lux | 67 lux | 1 lux | 0.01 | 0.05 |
| Calc Zone #16 | □ | 16 lux | 70 lux | 1 lux | 0.01 | 0.06 |
| Calc Zone #17 | ■ | 12 lux | 66 lux | 0 lux | 0.00 | 0.00 |
| Calc Zone #18 | ■ | 15 lux | 63 lux | 1 lux | 0.02 | 0.07 |
| Parking 1 | + | 12 lux | 26 lux | 2 lux | 0.08 | 0.17 |
| Parking 2 | + | 12 lux | 22 lux | 5 lux | 0.23 | 0.42 |
| Parking 3 | + | 13 lux | 20 lux | 7 lux | 0.35 | 0.54 |
| Parking 4 | + | 10 lux | 24 lux | 3 lux | 0.13 | 0.30 |
| Parking E | + | 11 lux | 24 lux | 3 lux | 0.13 | 0.27 |
| Path 1 | + | 24 lux | 69 lux | 1 lux | 0.01 | 0.04 |
| Path 2 | + | 23 lux | 70 lux | 2 lux | 0.03 | 0.09 |

## LUMINAIRE SCHEDULE

| Symbol | Label | Qty | Catalog Number | Description | Lamp | File | Lumens | LLF | Watts |
|---|---|---|---|---|---|---|---|---|---|
| | A | 19 | PEM.L034.AY.CG | PETXINA MINI ASYMMETRIC CURVED GLASS | LED LIGHT ENGINE PRODUCING c.3000lm NOMINAL 4K COLOUR TEMP | 4GM-8377.IES | Absolute | 0.90 | 35 |
| | B | 0 | PEM.L034.AY.CG | PETXINA MINI ASYMMETRIC CURVED GLASS | LED LIGHT ENGINE PRODUCING c.3000lm NOMINAL 4K COLOUR TEMP | 4GM-8377.IES | Absolute | 0.90 | 70 |
| | C | 1 | PEM.L034.SY.CG | PETXINA MINI SYMMETRIC CURVED GLASS | LED LIGHT ENGINE PRODUCING c.3000lm NOMINAL 4K COLOUR TEMP | 4GM-8359.IES | Absolute | 0.90 | 35 |
| | D | 70 | DEB.11LED.PAY.DO | DENVER ELITE BOLLARD | 1.3W NEUTAL WHITE 3500°K-4500°K LED | 500834.IES | Absolute | 0.90 | 0 |
| | E | 2 | DEB.11LED.PAY.TR | DENVER ELITE BOLLARD | 1.3W NEUTAL WHITE 3500°K-4500°K LED | 500835.IES | Absolute | 0.90 | 0 |
| | F | 2 | DEW.L034.AY | DENVER WALL ELITE | LED C.3000LM - 4000K | B11281B.IES | Absolute | 0.90 | 0 |

HOLOPHANE
LEADER IN LIGHTING SOLUTIONS
experience lighting's best.

# Westgate School

HCC

**Designer**
S Tibble

**Date**
Feb 15 2013

**Scale**
As shown A1

**Drawing No.**
P160-1021