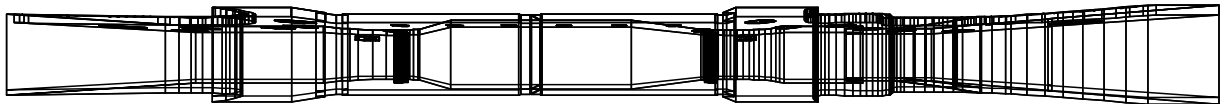


SHIRE MADRID

Notas Instalación: RECEPTION/BREAK OUT AREA
Cliente: FM ARQUITECTOS
Código Proyecto: cm_03332-01
Fecha: 12/05/2011

Notas:



Nombre Proyectista: CASTALDI LIGHTING srl_AB
Dirección: Via B.Cellini 8 - 21012 Cassano M.go VA
Tel.-Fax: Tel +390331777736 Fax +390331791286

Advertencias:

Gli illuminamenti sono calcolati secondo le norme UNI e, dove non espressamente indicato, senza arredamento.
L'incertezza nei valori indicati è del 10% circa, con tensione di alimentazione di 230V-50Hz, temperatura ambiente di 25°C e flussi luminosi normali.

1.1 Información sobre Area/Local

| Superficie | Dimensiones [m] | Ángulo° | Color | Coefficiente Reflexión | Ilum.Media [lux] | Luminancia Media [cd/m²] |
|------------|-----------------|---------|-----------------|------------------------|------------------|--------------------------|
| Techo | 40.75x8.73 | Plano | RGB=255,255,255 | 70% | 1 | 0.14 |
| Pared 141 | 3.00x7.10 | -180° | RGB=242,242,242 | 50% | 256 | 40.72 |
| Pared 140 | 3.00x1.23 | -90° | RGB=242,242,242 | 50% | 213 | 33.97 |
| Pared 139 | 3.00x0.61 | -111° | RGB=242,242,242 | 50% | 228 | 36.21 |
| Pared 138 | 3.00x0.61 | -126° | RGB=242,242,242 | 50% | 233 | 37.03 |
| Pared 137 | 3.00x0.91 | -151° | RGB=242,242,242 | 50% | 247 | 39.31 |
| Pared 136 | 3.00x0.96 | -165° | RGB=242,242,242 | 50% | 268 | 42.60 |
| Pared 135 | 3.00x0.86 | -176° | RGB=242,242,242 | 50% | 263 | 41.91 |
| Pared 134 | 3.00x0.73 | 173° | RGB=242,242,242 | 50% | 241 | 38.40 |
| Pared 133 | 3.00x0.70 | 163° | RGB=242,242,242 | 50% | 223 | 35.47 |
| Pared 132 | 3.00x0.64 | 157° | RGB=242,242,242 | 50% | 204 | 32.42 |
| Pared 131 | 3.00x0.82 | 148° | RGB=242,242,242 | 50% | 185 | 29.40 |
| Pared 130 | 3.00x0.08 | -135° | RGB=242,242,242 | 50% | 103 | 16.47 |
| Pared 129 | 3.00x6.44 | 136° | RGB=242,242,242 | 50% | 221 | 35.12 |
| Pared 128 | 3.00x8.05 | -180° | RGB=242,242,242 | 50% | 300 | 47.77 |
| Pared 127 | 3.00x6.42 | -136° | RGB=242,242,242 | 50% | 217 | 34.60 |
| Pared 126 | 3.00x0.14 | 143° | RGB=242,242,242 | 50% | 106 | 16.90 |
| Pared 125 | 3.00x0.64 | -145° | RGB=242,242,242 | 50% | 175 | 27.87 |
| Pared 124 | 3.00x0.72 | -154° | RGB=242,242,242 | 50% | 190 | 30.20 |
| Pared 123 | 3.00x0.64 | -162° | RGB=242,242,242 | 50% | 202 | 32.17 |
| Pared 122 | 3.00x0.62 | -170° | RGB=242,242,242 | 50% | 212 | 33.79 |
| Pared 121 | 3.00x0.65 | -176° | RGB=242,242,242 | 50% | 226 | 35.96 |
| Pared 120 | 3.00x0.64 | 175° | RGB=242,242,242 | 50% | 233 | 37.01 |
| Pared 119 | 3.00x0.61 | 170° | RGB=242,242,242 | 50% | 237 | 37.77 |
| Pared 118 | 3.00x0.55 | 161° | RGB=242,242,242 | 50% | 234 | 37.24 |
| Pared 117 | 3.00x0.51 | 155° | RGB=242,242,242 | 50% | 228 | 36.35 |
| Pared 116 | 3.00x0.53 | 152° | RGB=242,242,242 | 50% | 218 | 34.70 |
| Pared 115 | 3.00x0.60 | 133° | RGB=242,242,242 | 50% | 214 | 34.04 |
| Pared 114 | 3.00x0.61 | 113° | RGB=242,242,242 | 50% | 209 | 33.26 |
| Pared 113 | 3.00x0.60 | 98° | RGB=242,242,242 | 50% | 207 | 32.88 |
| Pared 112 | 3.00x0.59 | 94° | RGB=242,242,242 | 50% | 215 | 34.26 |
| Pared 111 | 3.00x0.64 | 89° | RGB=242,242,242 | 50% | 218 | 34.70 |
| Pared 110 | 3.00x4.45 | -180° | RGB=242,242,242 | 50% | 202 | 32.09 |
| Pared 109 | 3.00x1.30 | -90° | RGB=242,242,242 | 50% | 120 | 19.05 |
| Pared 108 | 3.00x5.17 | -180° | RGB=242,242,242 | 50% | 138 | 21.89 |
| Pared 107 | 3.00x1.25 | 90° | RGB=242,242,242 | 50% | 116 | 18.44 |
| Pared 106 | 3.00x0.18 | 180° | RGB=242,242,242 | 50% | 170 | 27.08 |
| Pared 105 | 3.00x3.40 | 90° | RGB=242,242,242 | 50% | 204 | 32.44 |
| Pared 104 | 3.00x0.16 | 0° | RGB=242,242,242 | 50% | 116 | 18.41 |
| Pared 103 | 3.00x3.48 | 90° | RGB=242,242,242 | 50% | 214 | 33.99 |
| Pared 102 | 3.00x2.39 | -0° | RGB=242,242,242 | 50% | 170 | 27.03 |
| Pared 101 | 3.00x0.60 | -87° | RGB=242,242,242 | 50% | 188 | 29.94 |
| Pared 100 | 3.00x0.60 | -80° | RGB=242,242,242 | 50% | 225 | 35.83 |
| Pared 99 | 3.00x0.60 | -73° | RGB=242,242,242 | 50% | 328 | 52.23 |
| Pared 98 | 3.00x0.60 | -66° | RGB=242,242,242 | 50% | 300 | 47.72 |
| Pared 97 | 3.00x0.60 | -59° | RGB=242,242,242 | 50% | 340 | 54.05 |
| Pared 96 | 3.00x0.60 | -52° | RGB=242,242,242 | 50% | 266 | 42.26 |
| Pared 95 | 3.00x0.60 | -45° | RGB=242,242,242 | 50% | 229 | 36.39 |
| Pared 94 | 3.00x0.12 | -38° | RGB=242,242,242 | 50% | 187 | 29.71 |
| Pared 93 | 3.00x0.59 | -28° | RGB=242,242,242 | 50% | 155 | 24.68 |
| Pared 92 | 3.00x0.54 | -23° | RGB=242,242,242 | 50% | 107 | 17.01 |
| Pared 91 | 3.00x1.59 | -112° | RGB=242,242,242 | 50% | 144 | 22.91 |
| Pared 90 | 3.00x0.05 | 159° | RGB=242,242,242 | 50% | 70 | 11.14 |
| Pared 89 | 3.00x2.17 | -112° | RGB=242,242,242 | 50% | 185 | 29.44 |
| Pared 88 | 3.00x0.05 | -21° | RGB=242,242,242 | 50% | 127 | 20.23 |
| Pared 87 | 3.00x1.12 | -112° | RGB=242,242,242 | 50% | 241 | 38.41 |
| Pared 86 | 3.00x0.05 | -180° | RGB=242,242,242 | 50% | 195 | 31.04 |
| Pared 85 | 3.00x1.30 | -90° | RGB=242,242,242 | 50% | 123 | 19.61 |
| Pared 84 | 3.00x0.10 | 0° | RGB=242,242,242 | 50% | 46 | 7.39 |
| Pared 83 | 3.00x1.30 | 90° | RGB=242,242,242 | 50% | 121 | 19.23 |
| Pared 82 | 3.00x1.15 | 68° | RGB=242,242,242 | 50% | 167 | 26.54 |
| Pared 81 | 3.00x0.05 | 159° | RGB=242,242,242 | 50% | 175 | 27.93 |
| Pared 80 | 3.00x2.07 | 67° | RGB=242,242,242 | 50% | 264 | 41.98 |
| Pared 79 | 3.00x0.05 | -21° | RGB=242,242,242 | 50% | 150 | 23.81 |
| Pared 78 | 3.00x1.64 | 68° | RGB=242,242,242 | 50% | 180 | 28.67 |
| Pared 77 | 3.00x0.75 | -16° | RGB=242,242,242 | 50% | 161 | 25.63 |
| Pared 76 | 3.00x0.57 | -8° | RGB=242,242,242 | 50% | 231 | 36.74 |

| Superficie | Dimensiones [m] | Ángulo° | Color | Coefficiente Reflexión | Ilum.Media [lux] | Luminancia Media [cd/m²] |
|------------|--------------------|---------|-----------------|---------------------------|---------------------|-----------------------------|
| Pared 75 | 3.00x0.63 | -5° | RGB=242,242,242 | 50% | 264 | 42.03 |
| Pared 74 | 3.00x0.59 | -4° | RGB=242,242,242 | 50% | 252 | 40.12 |
| Pared 73 | 3.00x0.61 | 0° | RGB=242,242,242 | 50% | 318 | 50.65 |
| Pared 72 | 3.00x0.68 | -1° | RGB=242,242,242 | 50% | 317 | 50.42 |
| Pared 71 | 3.00x0.68 | 4° | RGB=242,242,242 | 50% | 291 | 46.36 |
| Pared 70 | 3.00x0.15 | 4° | RGB=242,242,242 | 50% | 324 | 51.49 |
| Pared 69 | 3.00x0.20 | 11° | RGB=242,242,242 | 50% | 289 | 45.97 |
| Pared 68 | 3.00x0.20 | 20° | RGB=242,242,242 | 50% | 307 | 48.85 |
| Pared 67 | 3.00x0.20 | 30° | RGB=242,242,242 | 50% | 340 | 54.08 |
| Pared 66 | 3.00x0.20 | 40° | RGB=242,242,242 | 50% | 357 | 56.84 |
| Pared 65 | 3.00x0.16 | 46° | RGB=242,242,242 | 50% | 434 | 69.13 |
| Pared 64 | 3.00x0.16 | 43° | RGB=242,242,242 | 50% | 363 | 57.78 |
| Pared 63 | 3.00x0.16 | 40° | RGB=242,242,242 | 50% | 381 | 60.70 |
| Pared 62 | 3.00x0.16 | 36° | RGB=242,242,242 | 50% | 456 | 72.62 |
| Pared 61 | 3.00x0.16 | 33° | RGB=242,242,242 | 50% | 374 | 59.59 |
| Pared 60 | 3.00x0.22 | 27° | RGB=242,242,242 | 50% | 400 | 63.62 |
| Pared 59 | 3.00x0.22 | 20° | RGB=242,242,242 | 50% | 451 | 71.86 |
| Pared 58 | 3.00x0.22 | 13° | RGB=242,242,242 | 50% | 487 | 77.54 |
| Pared 57 | 3.00x0.22 | 7° | RGB=242,242,242 | 50% | 442 | 70.42 |
| Pared 56 | 3.00x0.22 | 0° | RGB=242,242,242 | 50% | 411 | 65.37 |
| Pared 55 | 3.00x0.22 | -7° | RGB=242,242,242 | 50% | 401 | 63.79 |
| Pared 54 | 3.00x0.22 | -13° | RGB=242,242,242 | 50% | 401 | 63.83 |
| Pared 53 | 3.00x0.51 | -16° | RGB=242,242,242 | 50% | 402 | 63.94 |
| Pared 52 | 3.00x0.51 | -10° | RGB=242,242,242 | 50% | 373 | 59.35 |
| Pared 51 | 3.00x0.51 | -4° | RGB=242,242,242 | 50% | 362 | 57.56 |
| Pared 50 | 3.00x0.16 | 3° | RGB=242,242,242 | 50% | 346 | 55.00 |
| Pared 49 | 3.00x0.16 | 13° | RGB=242,242,242 | 50% | 370 | 58.94 |
| Pared 48 | 3.00x0.16 | 23° | RGB=242,242,242 | 50% | 398 | 63.27 |
| Pared 47 | 3.00x0.16 | 33° | RGB=242,242,242 | 50% | 331 | 52.62 |
| Pared 46 | 3.00x0.16 | 44° | RGB=242,242,242 | 50% | 294 | 46.85 |
| Pared 45 | 3.00x0.13 | 43° | RGB=242,242,242 | 50% | 341 | 54.24 |
| Pared 44 | 3.00x0.13 | 46° | RGB=242,242,242 | 50% | 337 | 53.67 |
| Pared 43 | 3.00x0.13 | 49° | RGB=242,242,242 | 50% | 307 | 48.84 |
| Pared 42 | 3.00x0.13 | 51° | RGB=242,242,242 | 50% | 404 | 64.31 |
| Pared 41 | 3.00x0.13 | 54° | RGB=242,242,242 | 50% | 316 | 50.37 |
| Pared 40 | 3.00x0.20 | 58° | RGB=242,242,242 | 50% | 316 | 50.25 |
| Pared 39 | 3.00x0.19 | 61° | RGB=242,242,242 | 50% | 322 | 51.22 |
| Pared 38 | 3.00x0.22 | 67° | RGB=242,242,242 | 50% | 292 | 46.50 |
| Pared 37 | 3.00x0.09 | 72° | RGB=242,242,242 | 50% | 212 | 33.75 |
| Pared 36 | 3.00x2.87 | -0° | RGB=242,242,242 | 50% | 253 | 40.22 |
| Pared 35 | 3.00x1.27 | -90° | RGB=242,242,242 | 50% | 175 | 27.81 |
| Pared 34 | 3.00x0.67 | -180° | RGB=242,242,242 | 50% | 77 | 12.28 |
| Pared 33 | 3.00x0.95 | -90° | RGB=242,242,242 | 50% | 361 | 57.43 |
| Pared 32 | 3.00x0.67 | 0° | RGB=242,242,242 | 50% | 163 | 25.94 |
| Pared 31 | 3.00x0.20 | 90° | RGB=242,242,242 | 50% | 178 | 28.28 |
| Pared 30 | 3.00x6.84 | 0° | RGB=242,242,242 | 50% | 266 | 42.41 |
| Pared 29 | 3.00x0.20 | -90° | RGB=242,242,242 | 50% | 231 | 36.69 |
| Pared 28 | 3.00x0.64 | 0° | RGB=242,242,242 | 50% | 187 | 29.82 |
| Pared 27 | 3.00x1.67 | -90° | RGB=242,242,242 | 50% | 264 | 41.94 |
| Pared 26 | 3.00x0.05 | 1° | RGB=242,242,242 | 50% | 81 | 12.96 |
| Pared 25 | 3.00x1.67 | 90° | RGB=242,242,242 | 50% | 272 | 43.24 |
| Pared 24 | 3.00x0.61 | 0° | RGB=242,242,242 | 50% | 194 | 30.87 |
| Pared 23 | 3.00x0.20 | 90° | RGB=242,242,242 | 50% | 243 | 38.70 |
| Pared 22 | 3.00x6.84 | -0° | RGB=242,242,242 | 50% | 276 | 43.88 |
| Pared 21 | 3.00x0.20 | -90° | RGB=242,242,242 | 50% | 169 | 26.85 |
| Pared 20 | 3.00x0.67 | 0° | RGB=242,242,242 | 50% | 184 | 29.34 |
| Pared 19 | 3.00x0.95 | 90° | RGB=242,242,242 | 50% | 390 | 62.13 |
| Pared 18 | 3.00x0.57 | -180° | RGB=242,242,242 | 50% | 94 | 14.98 |
| Pared 17 | 3.00x1.26 | 90° | RGB=242,242,242 | 50% | 208 | 33.07 |
| Pared 16 | 3.00x2.75 | 0° | RGB=242,242,242 | 50% | 284 | 45.14 |
| Pared 15 | 3.00x0.63 | -74° | RGB=242,242,242 | 50% | 323 | 51.47 |
| Pared 14 | 3.00x0.63 | -64° | RGB=242,242,242 | 50% | 369 | 58.71 |
| Pared 13 | 3.00x0.63 | -54° | RGB=242,242,242 | 50% | 347 | 55.28 |
| Pared 12 | 3.00x0.63 | -43° | RGB=242,242,242 | 50% | 380 | 60.55 |
| Pared 11 | 3.00x0.63 | -33° | RGB=242,242,242 | 50% | 427 | 67.95 |
| Pared 10 | 3.00x0.74 | -22° | RGB=242,242,242 | 50% | 429 | 68.24 |
| Pared 9 | 3.00x0.74 | -18° | RGB=242,242,242 | 50% | 419 | 66.77 |
| Pared 8 | 3.00x0.74 | -14° | RGB=242,242,242 | 50% | 405 | 64.43 |
| Pared 7 | 3.00x0.74 | -10° | RGB=242,242,242 | 50% | 375 | 59.64 |
| Pared 6 | 3.00x0.74 | -6° | RGB=242,242,242 | 50% | 333 | 52.97 |
| Pared 5 | 3.00x0.74 | -5° | RGB=242,242,242 | 50% | 299 | 47.59 |

| Superficie | Dimensiones [m] | Ángulo° | Color | Coefficiente Reflexión | Ilum.Media [lux] | Luminancia Media [cd/m²] |
|------------|-----------------|---------|-----------------|------------------------|------------------|--------------------------|
| Pared 4 | 3.00x0.74 | -1° | RGB=242,242,242 | 50% | 289 | 46.07 |
| Pared 3 | 3.00x0.74 | 3° | RGB=242,242,242 | 50% | 304 | 48.31 |
| Pared 2 | 3.00x4.96 | 9° | RGB=242,242,242 | 50% | 347 | 55.30 |
| Pared 1 | 3.00x4.79 | -90° | RGB=242,242,242 | 50% | 314 | 49.92 |
| Suelo | 8.73x40.75 | Plano | RGB=255,255,255 | 20% | 423 | 26.94 |

Dimensiones Paralelepípedo que incluye el Area/Local [m]: 40.75x8.48x3.00
 Reticula Puntos de Medida del Paralelepípedo [m]: dirección X 0.25 - Y 0.25 - Z 0.25

1.2 Cálculo Energético (Plano de Trabajo)

| | |
|---------------------------------------|---------------------|
| Área | 179.01 m2 |
| Iluminancia Media | 442.34 lx |
| Potencia Específica | 25.54 W/m2 |
| Valor de Eficiencia Energética (VEEI) | 5.77 W/(m2 * 100lx) |
| Eficiencia Energética | 17.32 (m2*lx)/W |
| Potencia Total Utilizada | 4572.00 W |

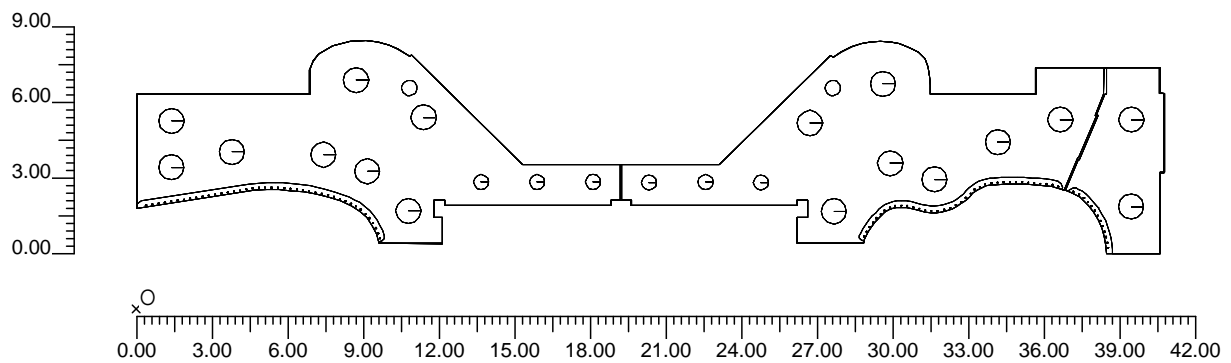
1.3 Parámetros de Calidad de la Instalación

| Superficie | Resultados | Medio | Mínimo | Máximo | Mín/Medio | Mín/Máx | Medio/Máx |
|-----------------------------|----------------------------|---------|--------|---------|-----------|---------|-----------|
| Plano de Trabajo (h=0.20 m) | Iluminancia Horizontal (E) | 442 lux | 0 lux | 748 lux | 0.00 | 0.00 | 0.59 |
| Suelo | Iluminancia Horizontal (E) | 423 lux | 0 lux | 709 lux | 0.00 | 0.00 | 0.60 |

Tipo Cálculo Dir.+Indir.(7 Interreflexiones)

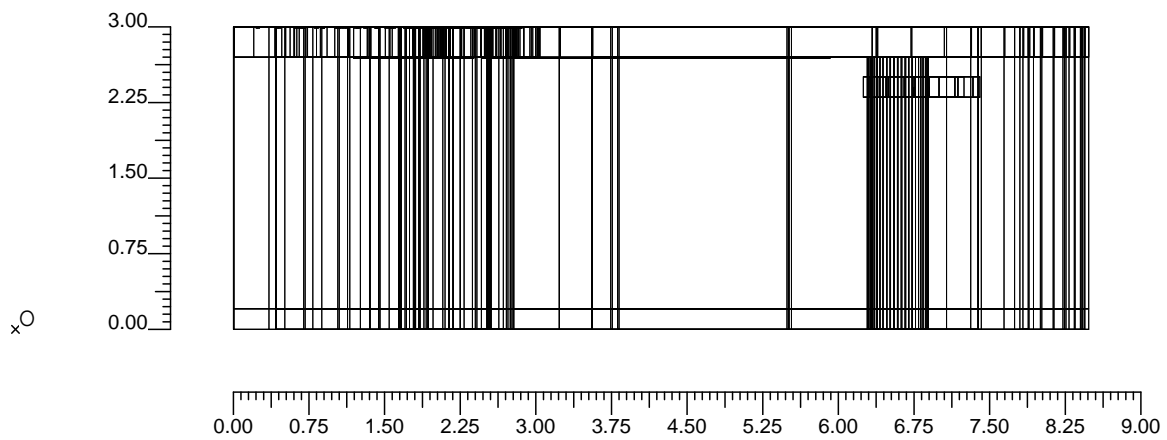
2.1 Vista 2D en Planta

Escala 1/300



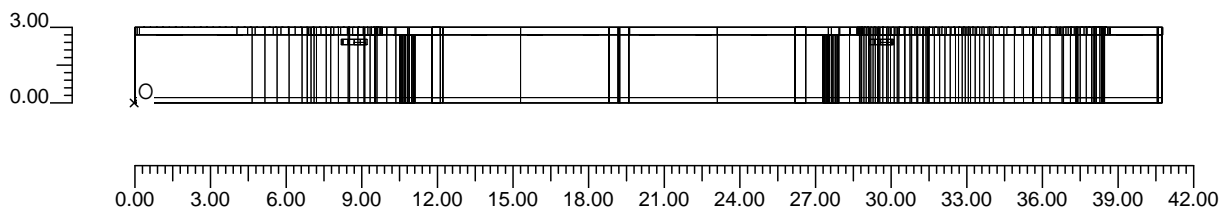
2.2 Vista Lateral

Escala 1/75



2.3 Vista Frontal

Escala 1/300



3.1 Información Luminarias/Ensayos

| Ref. | Línea | Nombre Luminaria (Nombre Ensayo) | Código Luminaria (Código Ensayo) | Luminarias N. | Ref.Lamp. | Lámparas N. |
|------|--------------------|--|-------------------------------------|------------------|-----------|----------------|
| A | NORLIGHT BUBBLE | BUBBLE 1000 9X26W (BUBBLE 1000 9x26W) | T15SD102 (CL311/05-2011000) | 2 | LMP-A | 9 |
| B | NORLIGHT BUBBLE UP | BUBBLE UP 600 8X18W (T15SD025) | T15SD145 (TRP - 15-05-07 B600) | 6 | LMP-B | 8 |
| C | NORLIGHT BUBBLE UP | BUBBLE UP 1000 12X18W (T15SD025) | T15SD125 (TRP - 15-05-07 B1000) | 15 | LMP-B | 12 |
| D | _ALTRI | VIO/G4/3.6W/841/36°/350mA (VIO/G4/3.6W/841/36°/350mA) | 77481 (2,683) | 92 | LMP-C | 1 |

3.2 Información Lámparas

| Ref.Lamp. | Tipo | Código | Flujo lm | Potencia W | Color K | N. |
|-----------|--------|--------------------|-------------|---------------|------------|-----|
| LMP-A | FSQ 26 | DDE2631 | 1800 | 26 | 0 | 18 |
| LMP-B | FSM 18 | DULUX T/E 18 W/830 | 1200 | 18 | 3000 | 228 |
| LMP-C | LED | led | 128 | 0 | 4100 | 92 |

3.3 Tabla Resumen Luminarias

| Ref. | Lum. | On | Posición Luminarias X[m] Y[m] Z[m] | Rotación Luminarias X° Y° Z° | Código Luminaria | Factor Cons. | Código Lámpara | Flujo lm |
|------|------|----|---------------------------------------|---------------------------------|------------------|-----------------|--------------------|-------------|
| A | 1 | X | 8.74;9.07;2.40 | 0.0;0.0;0.0 | T15SD102 | 0.80 | DDE2631 | 9*1800 |
| | 2 | X | 29.64;8.91;2.40 | 0.0;0.0;0.0 | | 0.80 | | |
| B | 1 | X | 13.71;5.01;2.69 | 0.0;0.0;0.0 | T15SD145 | 0.80 | DULUX T/E 18 W/830 | 8*1200 |
| | 2 | X | 15.92;5.01;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 3 | X | 18.15;5.02;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 4 | X | 20.37;5.01;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 5 | X | 22.60;5.01;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 6 | X | 24.81;5.01;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| C | 1 | X | 1.42;7.45;2.69 | 0.0;0.0;0.0 | T15SD125 | 0.80 | DULUX T/E 18 W/830 | 12*1200 |
| | 2 | X | 3.81;6.21;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 3 | X | 1.42;5.61;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 4 | X | 7.44;6.10;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 5 | X | 9.19;5.45;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 6 | X | 11.42;7.58;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 7 | X | 10.81;3.87;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 8 | X | 27.69;3.86;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 9 | X | 29.93;5.77;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 10 | X | 31.68;5.13;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 11 | X | 26.74;7.36;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 12 | X | 34.19;6.61;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 13 | X | 36.67;7.49;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 14 | X | 39.49;7.49;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| | 15 | X | 39.49;4.05;2.69 | 0.0;0.0;0.0 | | 0.80 | | |
| D | 1 | X | 0.41;4.09;2.99 | 0.0;0.0;0.0 | 77481 | 0.80 | led | 1*128 |
| | 2 | X | 0.91;4.17;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 3 | X | 1.41;4.26;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 4 | X | 1.92;4.33;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 5 | X | 2.41;4.40;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 6 | X | 2.90;4.49;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 7 | X | 3.40;4.57;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 8 | X | 3.90;4.65;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 9 | X | 4.39;4.73;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 10 | X | 4.89;4.79;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 11 | X | 5.39;4.80;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 12 | X | 5.89;4.78;2.99 | 0.0;0.0;0.0 | | 0.80 | | |

| Ref. | Lum. | On | Posición Luminarias X[m] Y[m] Z[m] | Rotación Luminarias X° Y° Z° | Código Luminaria | Factor Cons. | Código Lámpara | Flujo lm |
|------|------|----|---------------------------------------|---------------------------------|------------------|-----------------|----------------|-------------|
| D | 13 | X | 6.38;4.73;2.99 | 0.0;0.0;0.0 | 77481 | 0.80 | led | 1*128 |
| | 14 | X | 6.88;4.66;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 15 | X | 7.37;4.56;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 16 | X | 7.86;4.43;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 17 | X | 8.32;4.26;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 18 | X | 8.74;4.06;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 19 | X | 9.13;3.75;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 20 | X | 9.42;3.38;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 21 | X | 9.62;2.99;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 22 | X | 28.89;2.86;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 23 | X | 29.11;3.23;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 24 | X | 29.38;3.59;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 25 | X | 29.71;3.89;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 26 | X | 30.13;4.07;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 27 | X | 30.61;4.06;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 28 | X | 31.08;3.96;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 29 | X | 31.56;3.87;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 30 | X | 32.06;3.91;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 31 | X | 32.53;4.10;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 32 | X | 32.93;4.39;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 33 | X | 33.28;4.73;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 34 | X | 33.69;4.93;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 35 | X | 34.18;5.00;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 36 | X | 34.68;5.00;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 37 | X | 35.15;5.00;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 38 | X | 35.64;4.98;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 39 | X | 36.13;4.93;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 40 | X | 36.60;4.84;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 41 | X | 37.19;4.63;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 42 | X | 37.61;4.38;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 43 | X | 37.91;4.07;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 44 | X | 38.16;3.68;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 45 | X | 38.27;3.48;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 46 | X | 38.44;3.05;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 47 | X | 38.53;2.62;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 48 | X | 0.66;4.13;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 49 | X | 1.16;4.21;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 50 | X | 1.66;4.29;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 51 | X | 2.17;4.36;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 52 | X | 2.65;4.44;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 53 | X | 3.15;4.53;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 54 | X | 3.65;4.60;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 55 | X | 4.14;4.68;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 56 | X | 4.64;4.77;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 57 | X | 5.14;4.81;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 58 | X | 5.64;4.80;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 59 | X | 6.14;4.76;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 60 | X | 6.63;4.70;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 61 | X | 7.12;4.61;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 62 | X | 7.62;4.50;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 63 | X | 8.09;4.34;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 64 | X | 8.54;4.17;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 65 | X | 8.93;3.93;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 66 | X | 9.28;3.58;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 67 | X | 9.53;3.19;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 68 | X | 9.68;2.79;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 69 | X | 29.00;3.05;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 70 | X | 29.25;3.41;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 71 | X | 29.55;3.73;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 72 | X | 29.92;4.00;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 73 | X | 30.37;4.09;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 74 | X | 30.85;4.01;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 75 | X | 31.32;3.89;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 76 | X | 31.81;3.87;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 77 | X | 32.30;3.99;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 78 | X | 32.74;4.23;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 79 | X | 33.12;4.55;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 80 | X | 33.48;4.83;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 81 | X | 33.94;4.98;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 82 | X | 34.43;5.00;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 83 | X | 34.92;5.00;2.99 | 0.0;0.0;0.0 | | 0.80 | | |

| Ref. | Lum. | On | Posición Luminarias X[m] Y[m] Z[m] | Rotación Luminarias X° Y° Z° | Código Luminaria | Factor Cons. | Código Lámpara | Flujo lm |
|------|------|----|---------------------------------------|---------------------------------|------------------|-----------------|----------------|-------------|
| D | 84 | X | 35.40;4.99;2.99 | 0.0;0.0;0.0 | 77481 | 0.80 | led | 1*128 |
| | 85 | X | 35.88;4.96;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 86 | X | 36.37;4.90;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 87 | X | 37.41;4.52;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 88 | X | 37.77;4.23;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 89 | X | 38.04;3.88;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 90 | X | 38.36;3.27;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 91 | X | 38.49;2.83;2.99 | 0.0;0.0;0.0 | | 0.80 | | |
| | 92 | X | 38.56;2.41;2.99 | 0.0;0.0;0.0 | | 0.80 | | |

4.1 Valores de Iluminancia Horizontal sobre Plano de Trabajo

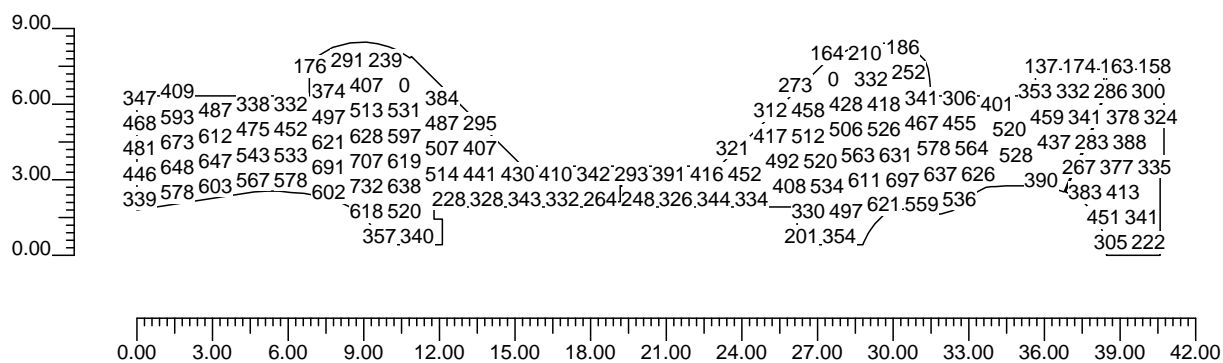
| O (x:0.05 y:10.65 z:0.20) | Resultados | Medio | Mínimo | Máximo | Mín/Medio | Mín/Máx | Medio/Máx |
|---------------------------|----------------------------|---------|--------|---------|-----------|---------|-----------|
| DX:0.25 DY:0.25 | Iluminancia Horizontal (E) | 442 lux | 0 lux | 748 lux | 0.00 | 0.00 | 0.59 |

Tipo Cálculo

Dir.+Indir.(7 Interreflexiones)

Escala 1/300

No todos los puntos de medida son visibles



4.2 Valores de Iluminancia sobre: Plano de Trabajo

| O (x:0.05 y:10.65 z:0.20) | Resultados | Medio | Mínimo | Máximo | Mín/Medio | Mín/Máx | Medio/Máx |
|---------------------------|----------------------------|---------|---------|---------|-----------|---------|-----------|
| DX:0.25 DY:0.25 | Iluminancia Horizontal (E) | 444 lux | 126 lux | 748 lux | 0.28 | 0.17 | 0.59 |

Tipo Cálculo

Dir.+Indir.(7 Interreflexiones)

Escala 1/300

No todos los puntos de medida son visibles

