

Descripción:
MEJORA DEL CASCO URBANO DE ESTEPONA.

Instalación:
VIAL PRINCIPAL 1.

Calzada de Tipo C.I.E.: C2 Factor de reflexión: 0.07

Factor de mantenimiento: 0.8

DISPOSICION DE LA CALZADA

Posición X Anchura Tipo Carriles

0.00	2.00	Acera	
2.00	7.00	Calzada	2
9.00	2.00	Acera	

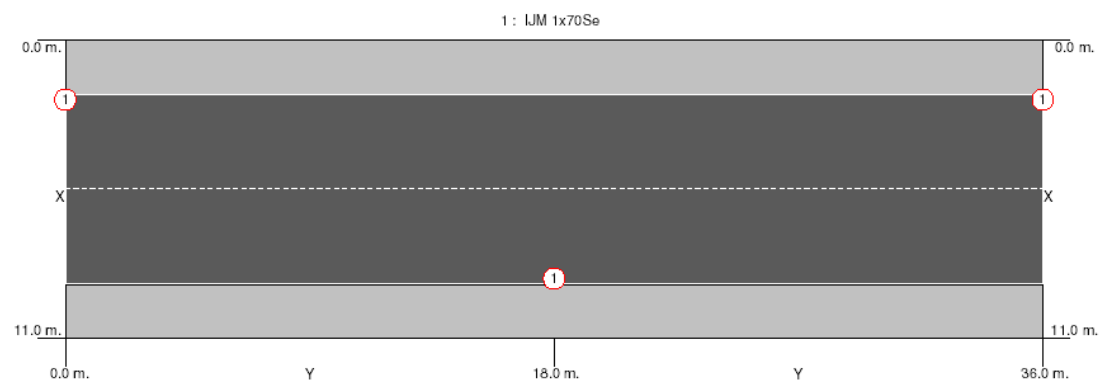
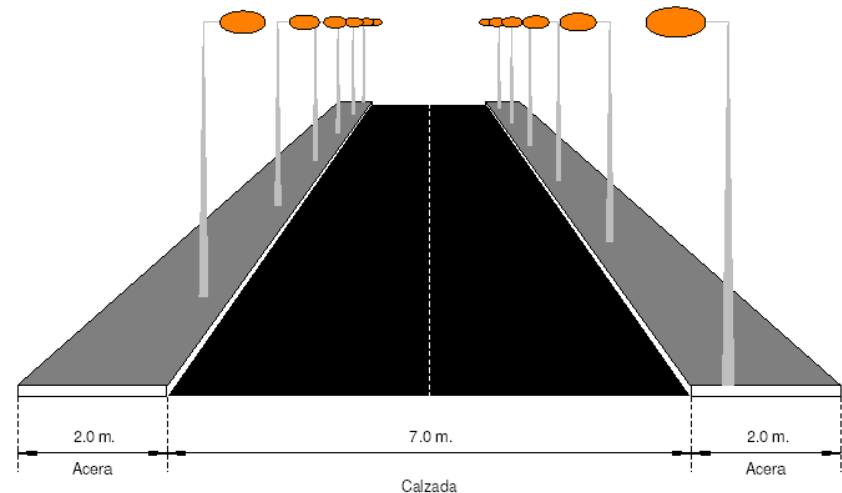
LUMINARIAS Y LAMPARAS SELECCIONADAS

Nº ID	LUMINARIA Modelo	Tipo	LAMPARA Flujo	Descripción
1	IJM	1x70 W S.A.P. eli	6.30	MASTERCOLOUR CDM-TT

DISPOSICION DE LUMINARIAS

Nº	Tipo	Interdistancia	Eje óptico	Apoyo	Altura	Modelo
1	Tresbolillo	18.00	2.20	1.50	5.00	IJM 1x70Se

	X	Y	Altura	Theta	Sigma	Alfa
1	8.80	-18.00	5.00	180.00	0.00	0.00
2	2.20	0.00	5.00	0.00	0.00	0.00
3	8.80	18.00	5.00	180.00	0.00	0.00
4	2.20	36.00	5.00	0.00	0.00	0.00
5	8.80	54.00	5.00	180.00	0.00	0.00
6	2.20	72.00	5.00	0.00	0.00	0.00
7	8.80	90.00	5.00	180.00	0.00	0.00
8	2.20	108.00	5.00	0.00	0.00	0.00
9	8.80	126.00	5.00	180.00	0.00	0.00
10	2.20	144.00	5.00	0.00	0.00	0.00
11	8.80	162.00	5.00	180.00	0.00	0.00
12	2.20	180.00	5.00	0.00	0.00	0.00



Zona: ZONA DE ESTUDIO

MATRIZ DE ILUMINACION HORIZONTAL: Valores iniciales en lux

X/Y (m.)	0.00	3.60	7.20	10.80	14.40	18.00	21.60	25.20	28.80	32.40	36.00	UI
2.30	11	26	15	8	7	9	7	8	15	26	11	0.27
3.01	39	25	16	9	8	11	8	9	16	25	39	0.21
3.72	37	23	16	10	9	13	9	10	16	23	37	0.24
4.43	35	19	16	11	9	15	9	11	16	19	35	0.26
5.14	27	16	15	14	11	20	11	14	15	16	27	0.42
5.86	20	11	14	15	16	27	16	15	14	11	20	0.42
6.57	15	9	11	16	19	35	19	16	11	9	15	0.26
7.28	13	9	10	16	23	37	23	16	10	9	13	0.24
7.99	10	8	9	16	25	39	25	16	9	8	11	0.21
8.70	9	7	8	15	26	11	26	15	8	7	9	0.27
Ut	0.22	0.27	0.48	0.48	0.27	0.22	0.27	0.48	0.48	0.27	0.22	

ILUMINANCIAS:

MEDIA: $E_m = 16.20 \text{ lux}$

MINIMA: $E_{min} = 6.95 \text{ lux}$

MAXIMA: $E_{max} = 39.24 \text{ lux}$

MEDIA EN SERVICIO: $E_{ms} = 12.96 \text{ lux}$

UNIFORMIDADES:

MEDIA: $U_m = E_{min}/E_m = 0.43$

EXTREMA: $U_{ex} = E_{min}/E_{max} = 0.18$

Descripción:
MEJORA DEL CASCO URBANO DE ESTEPONA.

Instalación:
ROTONDA.

Calzada de Tipo C.I.E.: C2 Factor de reflexión: 0.07

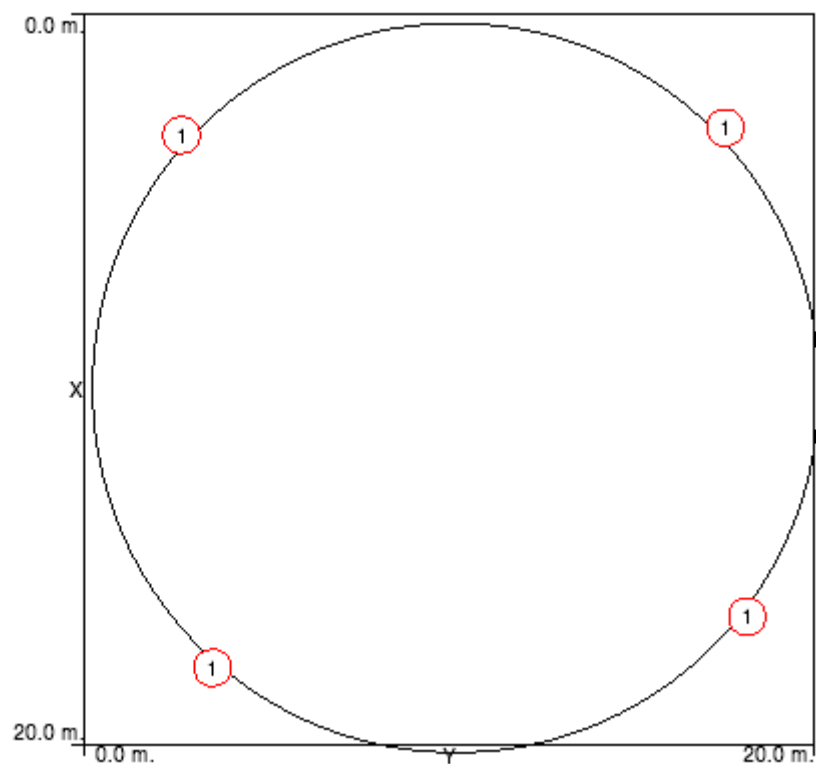
Factor de mantenimiento: 0.8

LUMINARIAS Y LAMPARAS SELECCIONADAS

Nº	LUMINARIA	Tipo	LAMPARA	Descripción
ID	Modelo		Flujo	
1	IJM	1x70 W S.A.P. eli	6.30	MASTERCOLOUR CDM-TT

Luminarias :

Nº	X	Y	Altura	Theta	Sigma	Alfa	Apoyo	Modelo
1	3.30	2.66	5.00	50.00	0.00	0.00	0.00	IJM 1x70Se
1	16.50	18.17	5.00	-130.00	0.00	0.00	0.00	IJM 1x70Se
1	3.09	17.56	5.00	-45.00	0.00	0.00	0.00	IJM 1x70Se
1	17.91	3.52	5.00	135.00	0.00	0.00	0.00	IJM 1x70Se



Zona: ZONA DE ESTUDIO

MATRIZ DE ILUMINACION HORIZONTAL: Valores iniciales en lux

X/Y (m.)	0.00	1.18	2.35	3.53	4.71	5.88	7.06	8.24	9.41	10.59	11.76	12.94	14.12	15.29	16.47	17.65	18.82	20.00	UI
0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1.18	---	---	---	---	---	---	23	20	18	18	22	23	25	---	---	---	---	---	0.72
2.35	---	---	---	---	39	25	18	17	16	16	17	18	24	37	---	---	---	---	0.41
3.53	---	---	---	37	32	21	14	12	11	10	11	13	18	31	36	---	---	---	0.28
4.71	---	---	42	40	33	23	17	13	11	11	12	16	21	30	40	35	---	---	0.27
5.88	---	---	34	29	24	18	15	13	10	10	11	14	17	22	29	27	31	---	0.28
7.06	---	25	23	17	18	15	12	10	9	9	10	12	14	18	18	19	25	---	0.34
8.24	---	24	19	13	14	13	11	9	8	8	8	10	13	15	14	16	22	---	0.31
9.41	---	23	18	12	12	11	9	8	7	7	7	9	11	13	13	16	22	28	0.23
Ut	---	0.86	0.43	0.31	0.27	0.28	0.37	0.38	0.29	0.31	0.34	0.39	0.44	0.34	0.30	0.45	0.59	1.00	

X/Y (m.)	0.00	1.18	2.35	3.53	4.71	5.88	7.06	8.24	9.41	10.59	11.76	12.94	14.12	15.29	16.47	17.65	18.82	20.00	UI
10.59	---	22	18	13	11	10	9	8	7	6	7	9	11	13	13	16	22	28	0.22
11.76	---	23	19	13	11	11	10	8	7	7	8	10	12	15	15	16	22	---	0.31
12.94	---	25	20	14	14	14	12	10	9	8	10	11	14	17	20	19	25	---	0.34
14.12	---	25	23	18	18	18	14	12	11	10	11	13	17	20	29	29	37	---	0.26
15.29	---	---	32	27	30	22	17	15	12	11	12	14	19	27	38	35	---	---	0.29
16.47	---	---	---	30	39	30	20	15	12	11	11	12	15	23	30	22	---	---	0.27
17.65	---	---	---	---	32	28	18	14	13	14	15	17	20	28	43	---	---	---	0.30
18.82	---	---	---	---	---	35	23	19	18	18	19	23	24	---	---	---	---	---	0.51
20.00	---	---	---	---	---	---	---	---	23	20	21	---	---	---	---	---	---	---	0.90
Ut	---	0.86	0.43	0.31	0.27	0.28	0.37	0.38	0.29	0.31	0.34	0.39	0.44	0.34	0.30	0.45	0.59	1.00	

ILUMINANCIAS:

MEDIA: $E_m = 18.12 \text{ lux}$

MINIMA: $E_{min} = 6.32 \text{ lux}$

MAXIMA: $E_{max} = 42.67 \text{ lux}$

MEDIA EN SERVICIO: $E_{ms} = 14.50 \text{ lux}$

UNIFORMIDADES:

MEDIA: $U_m = E_{min}/E_m = 0.35$

EXTREMA: $U_{ex} = E_{min}/E_{max} = 0.15$

Descripción:
MEJORA DEL CASCO URBANO DE ESTEPONA.

Instalación:
VIAL PRINCIPAL 2.

Calzada de Tipo C.I.E.: C2 Factor de reflexión: 0.07

Factor de mantenimiento: 0.8

DISPOSICION DE LA CALZADA

Posición X Anchura Tipo Carriles

0.00	1.50	Acera	
1.50	5.00	Calzada	1
6.50	1.50	Acera	

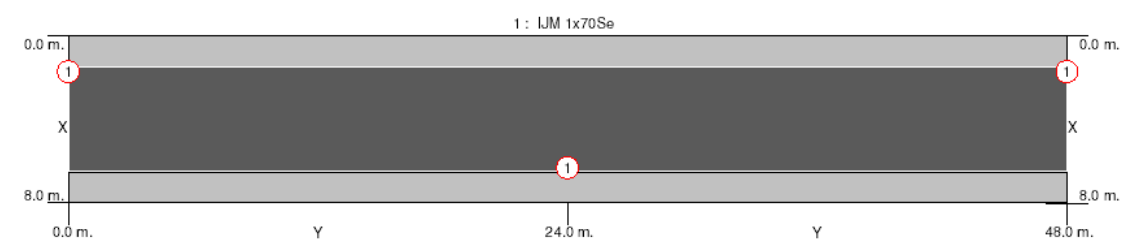
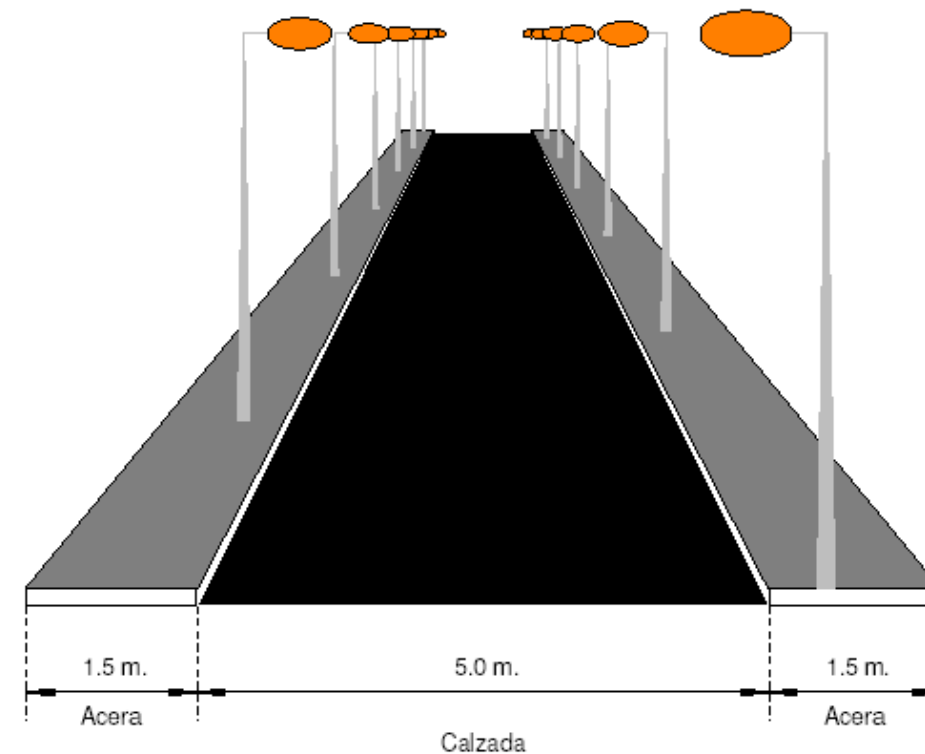
LUMINARIAS Y LAMPARAS SELECCIONADAS

Nº ID	LUMINARIA Modelo	Tipo	LAMPARA Flujo	Descripción
1	IJM	1x70 W S.A.P. eli	6.30	MASTERCOLOR CDM-TT

DISPOSICION DE LUMINARIAS

Nº	Tipo	Interdistancia	Eje óptico	Apoyo	Altura	Modelo
1	Tresbolillo	24.00	1.70	1.00	5.00	IJM 1x70Se

	X	Y	Altura	Theta	Sigma	Alfa
1	6.30	-24.00	5.00	180.00	0.00	0.00
2	1.70	0.00	5.00	0.00	0.00	0.00
3	6.30	24.00	5.00	180.00	0.00	0.00
4	1.70	48.00	5.00	0.00	0.00	0.00
5	6.30	72.00	5.00	180.00	0.00	0.00
6	1.70	96.00	5.00	0.00	0.00	0.00
7	6.30	120.00	5.00	180.00	0.00	0.00
8	1.70	144.00	5.00	0.00	0.00	0.00
9	6.30	168.00	5.00	180.00	0.00	0.00
10	1.70	192.00	5.00	0.00	0.00	0.00
11	6.30	216.00	5.00	180.00	0.00	0.00
12	1.70	240.00	5.00	0.00	0.00	0.00



Zona: ZONA DE ESTUDIO

MATRIZ DE ILUMINACION HORIZONTAL: Valores iniciales en lux

X/Y (m.)	0.00	4.80	9.60	14.40	19.20	24.00	28.80	33.60	38.40	43.20	48.00	UI
2.00	16	22	7	6	10	15	10	6	7	22	16	0.26
3.00	37	21	7	7	14	22	14	7	7	21	37	0.18
4.00	34	19	7	7	19	34	19	7	7	19	34	0.21
5.00	22	14	7	7	21	37	21	7	7	14	22	0.18
6.00	15	10	6	7	22	16	22	7	6	10	15	0.26
Ut	0.40	0.45	0.80	0.80	0.45	0.40	0.45	0.80	0.80	0.45	0.40	

ILUMINANCIAS:

MEDIA: $E_m = 15.55 \text{ lux}$

MINIMA: $E_{min} = 5.89 \text{ lux}$

MAXIMA: $E_{max} = 37.07 \text{ lux}$

MEDIA EN SERVICIO: $E_{ms} = 12.44 \text{ lux}$

UNIFORMIDADES:

MEDIA: $U_m = E_{min}/E_m = 0.38$

EXTREMA: $U_{ex} = E_{min}/E_{max} = 0.16$

Descripción:

MEJORA DEL CASCO URBANO DE ESTEPONA.

Instalación:

VIAL PRINCIPAL 3.

Calzada de Tipo C.I.E.: C2 Factor de reflexión: 0.07

Factor de mantenimiento: 0.8

DISPOSICION DE LA CALZADA

Posición X Anchura Tipo Carriles

0.00	1.00	Acera	
1.00	12.00	Calzada	2
13.00	1.00	Acera	

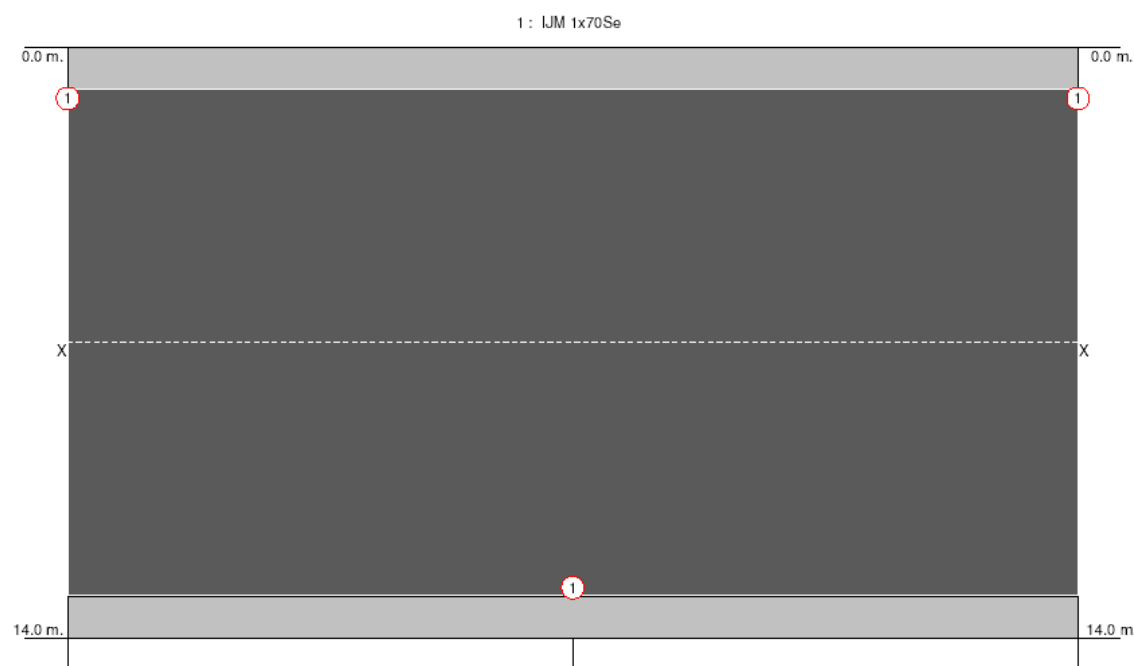
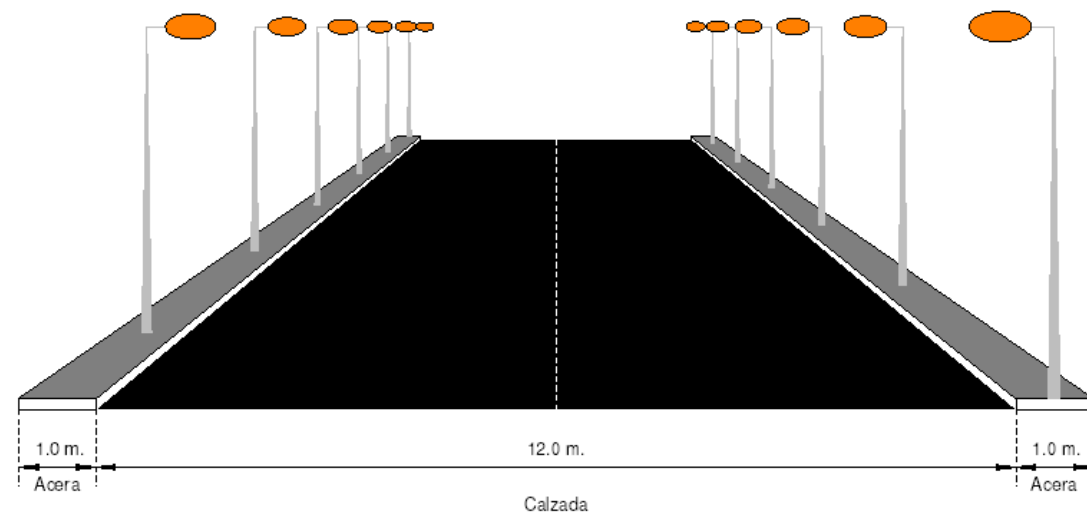
LUMINARIAS Y LAMPARAS SELECCIONADAS

Nº ID	LUMINARIA Modelo	Tipo	LAMPARA Flujo	Descripción
1	IJM	1x70 W S.A.P. eli	6.30	MASTERCOLOUR CDM-TT

DISPOSICION DE LUMINARIAS

Nº	Tipo	Interdistancia	Eje óptico	Apoyo	Altura	Modelo
1	Tresbolillo	12.00	1.20	0.50	5.00	IJM 1x70Se

	X	Y	Altura	Theta	Sigma	Alfa
1	12.80	-12.00	5.00	180.00	0.00	0.00
2	1.20	0.00	5.00	0.00	0.00	0.00
3	12.80	12.00	5.00	180.00	0.00	0.00
4	1.20	24.00	5.00	0.00	0.00	0.00
5	12.80	36.00	5.00	180.00	0.00	0.00
6	1.20	48.00	5.00	0.00	0.00	0.00
7	12.80	60.00	5.00	180.00	0.00	0.00
8	1.20	72.00	5.00	0.00	0.00	0.00
9	12.80	84.00	5.00	180.00	0.00	0.00
10	1.20	96.00	5.00	0.00	0.00	0.00
11	12.80	108.00	5.00	180.00	0.00	0.00
12	1.20	120.00	5.00	0.00	0.00	0.00



Zona: ZONA DE ESTUDIO

MATRIZ DE ILUMINACION HORIZONTAL: Valores iniciales en lux

X/Y (m.)	0.00	2.40	4.80	7.20	9.60	12.00	14.40	16.80	19.20	21.60	24.00	UI
1.60	19	36	23	15	8	7	8	15	23	36	20	0.18
2.80	39	29	22	15	9	7	9	15	22	29	39	0.19
4.00	30	17	17	15	10	8	10	15	17	17	30	0.28
5.20	18	15	14	12	11	10	11	12	14	15	18	0.54
6.40	14	13	11	11	11	12	11	11	11	13	14	0.73
7.60	12	11	11	11	13	14	13	11	11	11	12	0.73
8.80	10	11	12	14	15	18	15	14	12	11	10	0.54
10.00	8	10	15	17	17	30	17	17	15	10	8	0.28
11.20	7	9	15	22	29	39	29	22	15	9	7	0.18
12.40	7	8	15	23	36	20	36	23	15	8	7	0.18
Ut	0.17	0.23	0.46	0.46	0.24	0.17	0.24	0.46	0.46	0.24	0.17	

ILUMINANCIAS:

MEDIA: $E_m = 15.93 \text{ lux}$

MINIMA: $E_{min} = 6.52 \text{ lux}$

MAXIMA: $E_{max} = 39.06 \text{ lux}$

MEDIA EN SERVICIO: $E_{ms} = 12.74 \text{ lux}$

UNIFORMIDADES:

MEDIA: $U_m = E_{min}/E_m = 0.41$

EXTREMA: $U_{ex} = E_{min}/E_{max} = 0.17$

Descripción:
MEJORA DEL CASCO URBANO DE ESTEPONA.

Instalación:
VIAL SECUNDARIO 1.

Calzada de Tipo C.I.E.: C2 Factor de reflexión: 0.07

Factor de mantenimiento: 0.8

DISPOSICION DE LA CALZADA

Posición X	Anchura	Tipo	Carriles
0.00	7.50	Calzada	2

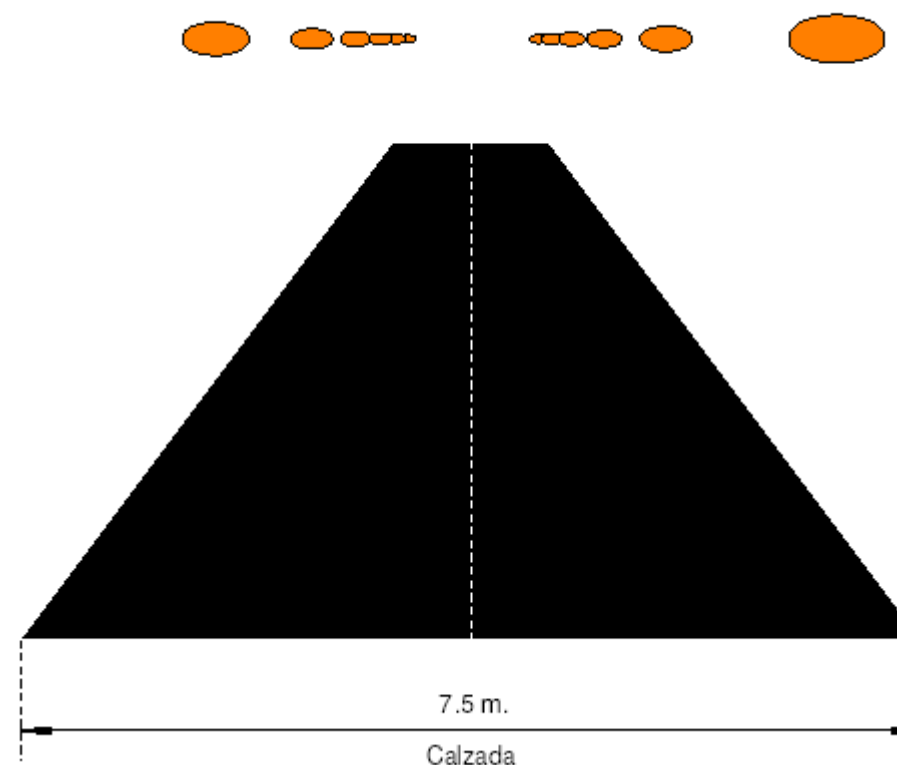
LUMINARIAS Y LAMPARAS SELECCIONADAS

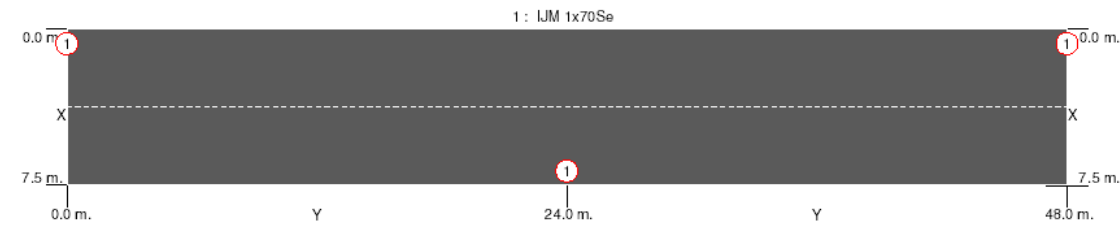
Nº ID	LUMINARIA Modelo	Tipo	LAMPARA Flujo	Descripción
1	IJM	1x70 W S.A.P. eli	6.30	MASTERCOLOR CDM-TT

DISPOSICION DE LUMINARIAS

Nº	Tipo	Interdistancia	Eje óptico	Apoyo	Altura	Modelo
1	Tresbolillo	24.00	0.70	0.00	5.00	IJM 1x70Se

	X	Y	Altura	Theta	Sigma	Alfa
1	6.80	-24.00	5.00	180.00	0.00	0.00
2	0.70	0.00	5.00	0.00	0.00	0.00
3	6.80	24.00	5.00	180.00	0.00	0.00
4	0.70	48.00	5.00	0.00	0.00	0.00
5	6.80	72.00	5.00	180.00	0.00	0.00
6	0.70	96.00	5.00	0.00	0.00	0.00
7	6.80	120.00	5.00	180.00	0.00	0.00
8	0.70	144.00	5.00	0.00	0.00	0.00
9	6.80	168.00	5.00	180.00	0.00	0.00
10	0.70	192.00	5.00	0.00	0.00	0.00
11	6.80	216.00	5.00	180.00	0.00	0.00
12	0.70	240.00	5.00	0.00	0.00	0.00





Zona: ZONA DE ESTUDIO

MATRIZ DE ILUMINACION HORIZONTAL: Valores iniciales en lux

X/Y (m.)	0.00	4.80	9.60	14.40	19.20	24.00	28.80	33.60	38.40	43.20	48.00	UI
0.38	22	23	7	3	5	8	5	4	7	23	22	0.15
1.13	20	22	7	4	5	10	5	4	7	22	20	0.19
1.88	38	21	7	5	7	13	7	5	7	21	38	0.14
2.63	37	20	7	6	11	16	11	6	7	20	37	0.16
3.38	30	17	7	7	13	21	13	7	7	17	30	0.22
4.13	21	13	7	7	17	30	17	7	7	13	21	0.22
4.88	16	11	6	7	20	37	20	7	6	11	16	0.16
5.63	13	7	5	7	21	38	21	7	5	7	13	0.14
6.38	10	5	4	7	22	20	22	7	4	5	10	0.19
7.13	8	5	3	7	23	22	23	7	4	5	8	0.15
Ut	0.21	0.20	0.48	0.48	0.20	0.21	0.20	0.49	0.49	0.20	0.21	

ILUMINANCIAS:

MEDIA: $E_m = 13.28 \text{ lux}$

MINIMA: $E_{min} = 3.47 \text{ lux}$

MAXIMA: $E_{max} = 37.60 \text{ lux}$

MEDIA EN SERVICIO: $E_{ms} = 10.62 \text{ lux}$

UNIFORMIDADES:

MEDIA: $U_m = E_{min}/E_m = 0.26$

EXTREMA: $U_{ex} = E_{min}/E_{max} = 0.09$

Descripción:
MEJORA DEL CASCO URBANO DE ESTEPONA.

Instalación:
VIAL SECUNDARIO 2.

Calzada de Tipo C.I.E.: C2 Factor de reflexión: 0.07

Factor de mantenimiento: 0.8

DISPOSICION DE LA CALZADA

Posición X Anchura Tipo Carriles

0.00	1.00	Acera	
1.00	5.00	Calzada	1
6.00	1.00	Acera	

LUMINARIAS Y LAMPARAS SELECCIONADAS

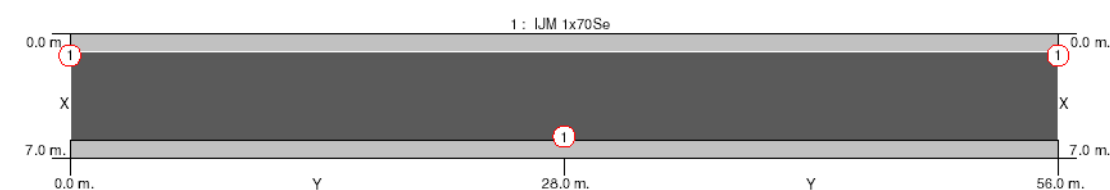
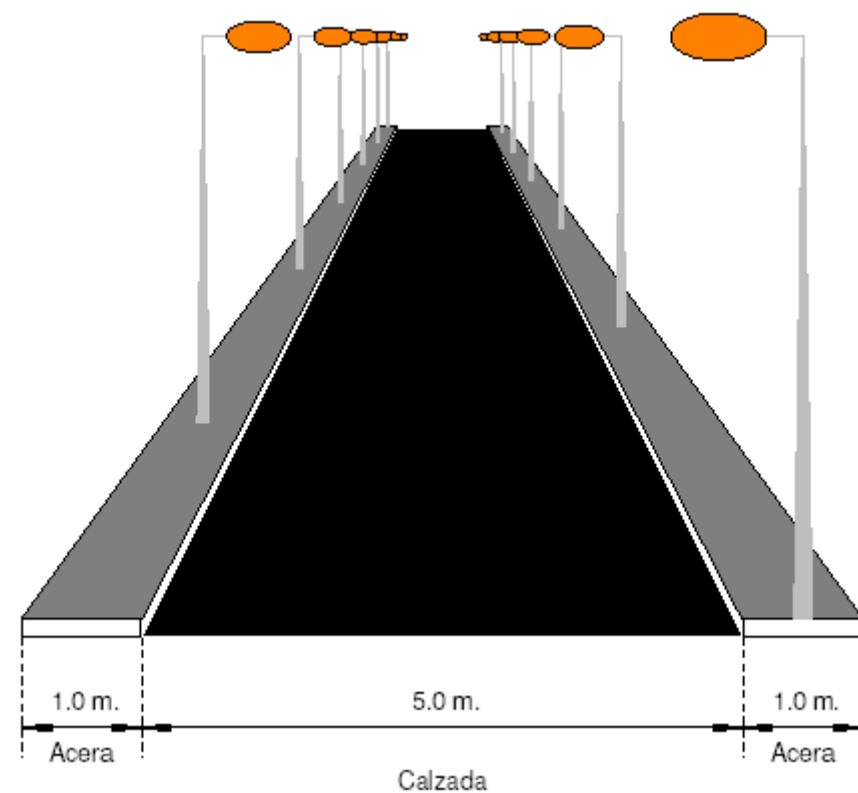
Nº	LUMINARIA		LAMPARA	
ID	Modelo	Tipo	Flujo	Descripción
1	IJM	1x70 W S.A.P. eli	6.30	MASTERCOLOUR CDM-TT

DISPOSICION DE LUMINARIAS

Nº Tipo Interdistancia Eje óptico Apoyo Altura Modelo

1 Tresbolillo 28.00 1.20 0.50 5.00 IJM 1x70Se

	X	Y	Altura	Theta	Sigma	Alfa
1	5.80	-28.00	5.00	180.00	0.00	0.00
2	1.20	0.00	5.00	0.00	0.00	0.00
3	5.80	28.00	5.00	180.00	0.00	0.00
4	1.20	56.00	5.00	0.00	0.00	0.00
5	5.80	84.00	5.00	180.00	0.00	0.00
6	1.20	112.00	5.00	0.00	0.00	0.00
7	5.80	140.00	5.00	180.00	0.00	0.00
8	1.20	168.00	5.00	0.00	0.00	0.00
9	5.80	196.00	5.00	180.00	0.00	0.00
10	1.20	224.00	5.00	0.00	0.00	0.00
11	5.80	252.00	5.00	180.00	0.00	0.00
12	1.20	280.00	5.00	0.00	0.00	0.00



Zona: ZONA DE ESTUDIO

MATRIZ DE ILUMINACION HORIZONTAL: Valores iniciales en lux

X/Y (m.)	0.00	5.60	11.20	16.80	22.40	28.00	33.60	39.20	44.80	50.40	56.00	UI
1.50	16	20	4	3	10	15	10	3	4	20	16	0.17
2.50	37	20	4	4	13	22	13	4	4	20	37	0.10
3.50	34	18	4	4	18	34	18	4	4	18	34	0.12
4.50	22	13	4	4	20	37	20	4	4	13	22	0.10
5.50	15	10	3	4	20	16	20	4	3	10	15	0.17
Ut	0.40	0.49	0.83	0.83	0.49	0.40	0.49	0.83	0.83	0.49	0.40	

ILUMINANCIAS:

MEDIA: $E_m = 14.07 \text{ lux}$

MINIMA: $E_{min} = 3.49 \text{ lux}$

MAXIMA: $E_{max} = 36.96 \text{ lux}$

MEDIA EN SERVICIO: $E_{ms} = 11.26 \text{ lux}$

UNIFORMIDADES:

MEDIA: $U_m = E_{min}/E_m = 0.25$

EXTREMA: $U_{ex} = E_{min}/E_{max} = 0.09$

DISPOSICION DE LUMINARIAS

Nº	Tipo	Interdistancia	Eje óptico	Apoyo	Altura	Modelo
1	Tresbolillo	24.00	0.70	0.00	5.00	IJM 1x70Se

	X	Y	Altura	Theta	Sigma	Alfa
1	7.30	-24.00	5.00	180.00	0.00	0.00
2	0.70	0.00	5.00	0.00	0.00	0.00
3	7.30	24.00	5.00	180.00	0.00	0.00
4	0.70	48.00	5.00	0.00	0.00	0.00
5	7.30	72.00	5.00	180.00	0.00	0.00
6	0.70	96.00	5.00	0.00	0.00	0.00
7	7.30	120.00	5.00	180.00	0.00	0.00
8	0.70	144.00	5.00	0.00	0.00	0.00
9	7.30	168.00	5.00	180.00	0.00	0.00
10	0.70	192.00	5.00	0.00	0.00	0.00
11	7.30	216.00	5.00	180.00	0.00	0.00
12	0.70	240.00	5.00	0.00	0.00	0.00

Descripción:
MEJORA DEL CASCO URBANO DE ESTEPONA.

Instalación:
VIAL SECUNDARIO 3.

Calzada de Tipo C.I.E.: C2 Factor de reflexión: 0.07

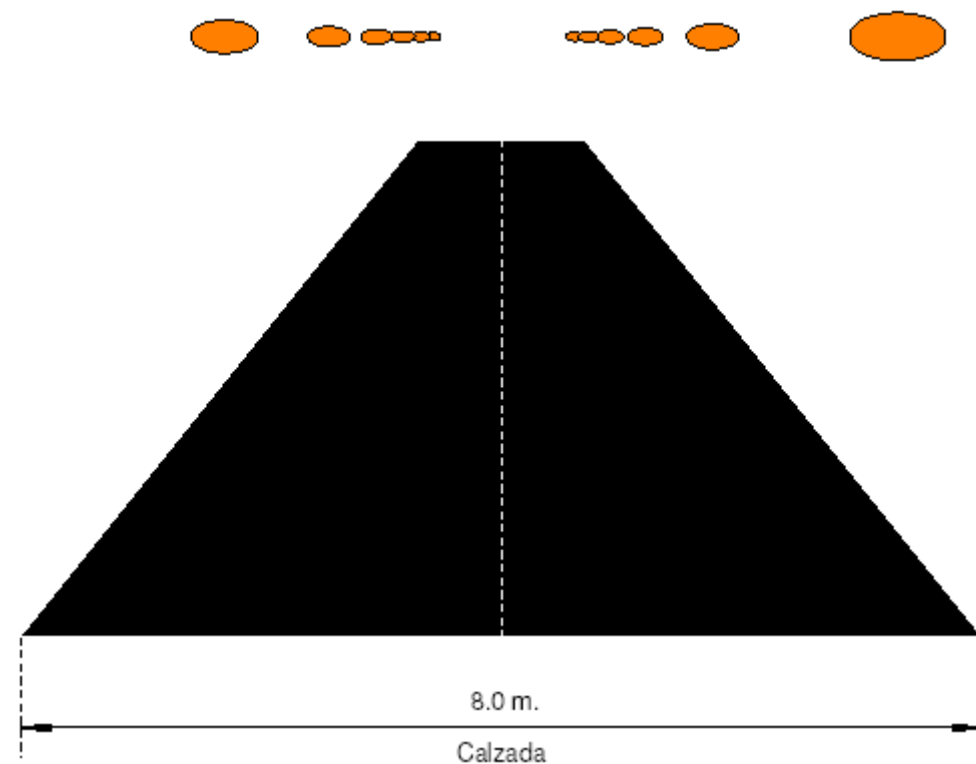
Factor de mantenimiento: 0.8

DISPOSICION DE LA CALZADA

Posición X	Anchura	Tipo	Carriles
0.00	8.00	Calzada	2

LUMINARIAS Y LAMPARAS SELECCIONADAS

Nº	LUMINARIA		LAMPARA	
ID	Modelo	Tipo	Flujo	Descripción
1	IJM	1x70 W S.A.P. eli	6.30	MASTERCOLOUR CDM-TT



Zona: ZONA DE ESTUDIO

MATRIZ DE ILUMINACION HORIZONTAL: Valores iniciales en lux

X/Y (m.)	0.00	4.80	9.60	14.40	19.20	24.00	28.80	33.60	38.40	43.20	48.00	UI
0.40	21	23	6	3	4	7	4	3	7	23	21	0.14
1.20	23	22	7	4	5	9	5	4	7	22	23	0.17
2.00	37	21	7	5	6	11	6	5	7	21	37	0.12
2.80	36	20	7	6	9	14	9	6	7	20	36	0.16
3.60	27	15	7	6	13	19	13	6	7	15	27	0.23
4.40	19	13	6	7	15	27	15	7	6	13	19	0.23
5.20	14	9	6	7	20	36	20	7	6	9	14	0.16
6.00	11	6	5	7	21	37	21	7	5	6	11	0.12
6.80	9	5	4	7	22	23	22	7	4	5	9	0.17
7.60	7	4	3	6	23	21	23	7	3	4	7	0.14
Ut	0.19	0.18	0.45	0.45	0.18	0.19	0.18	0.45	0.45	0.18	0.19	

ILUMINANCIAS:

MEDIA: $E_m = 12.69 \text{ lux}$

MINIMA: $E_{min} = 3.17 \text{ lux}$

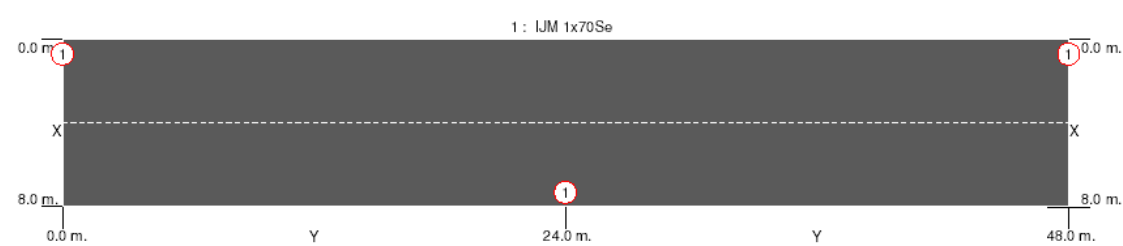
MAXIMA: $E_{max} = 37.05 \text{ lux}$

MEDIA EN SERVICIO: $E_{ms} = 10.15 \text{ lux}$

UNIFORMIDADES:

MEDIA: $U_m = E_{min}/E_m = 0.25$

EXTREMA: $U_{ex} = E_{min}/E_{max} = 0.09$



Descripción:
MEJORA DEL CASCO URBANO DE ESTEPONA.

Instalación:
VIAL SECUNDARIO 4.

Calzada de Tipo C.I.E.: C2 Factor de reflexión: 0.07

Factor de mantenimiento: 0.8

DISPOSICION DE LA CALZADA

Posición X	Anchura	Tipo	Carriles
0.00	3.00	Calzada	1

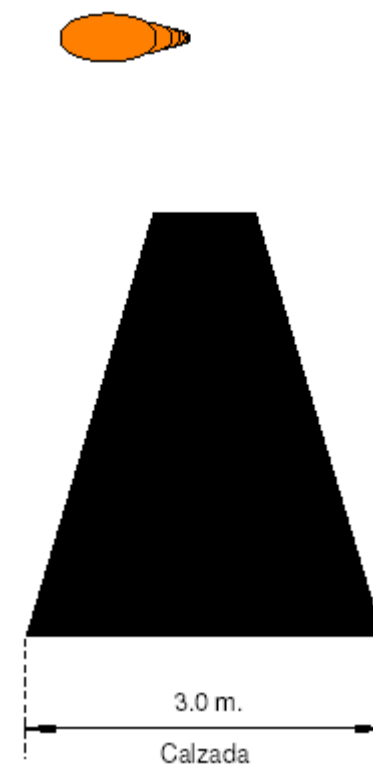
LUMINARIAS Y LAMPARAS SELECCIONADAS

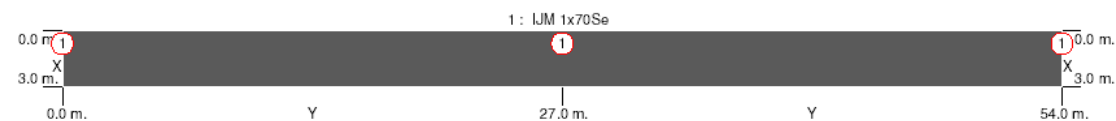
Nº ID	LUMINARIA Modelo	Tipo	LAMPARA Flujo	Descripción
1	IJM	1x70 W S.A.P. eli	6.30	MASTERCOLOUR CDM-TT

DISPOSICION DE LUMINARIAS

Nº	Tipo	Interdistancia	Eje óptico	Apoyo	Altura	Modelo
1	Unilateral	27.00	0.70	0.00	5.00	IJM 1x70Se

	X	Y	Altura	Theta	Sigma	Alfa
1	0.70	-27.00	5.00	0.00	0.00	0.00
2	0.70	0.00	5.00	0.00	0.00	0.00
3	0.70	27.00	5.00	0.00	0.00	0.00
4	0.70	54.00	5.00	0.00	0.00	0.00
5	0.70	81.00	5.00	0.00	0.00	0.00
6	0.70	108.00	5.00	0.00	0.00	0.00





Zona: ZONA DE ESTUDIO

MATRIZ DE ILUMINACION HORIZONTAL: Valores iniciales en lux

X/Y (m.)	0.00	5.40	10.80	16.20	21.60	27.00	32.40	37.80	43.20	48.60	54.00	UI
0.30	24	21	5	5	20	24	21	5	5	20	24	0.19
0.90	13	21	5	5	21	13	21	5	5	21	13	0.23
1.50	38	21	5	5	21	38	21	5	5	21	38	0.13
2.10	37	20	5	5	20	37	20	5	5	20	37	0.13
2.70	37	20	5	5	20	37	20	5	5	20	37	0.13
Ut	0.33	0.95	0.94	0.95	0.95	0.33	0.95	0.94	0.95	0.95	0.33	

ILUMINANCIAS:

MEDIA: $E_m = 17.25 \text{ lux}$

MINIMA: $E_{min} = 4.53 \text{ lux}$

MAXIMA: $E_{max} = 38.34 \text{ lux}$

MEDIA EN SERVICIO: $E_{ms} = 13.80 \text{ lux}$

UNIFORMIDADES:

MEDIA: $U_m = E_{min}/E_m = 0.26$

EXTREMA: $U_{ex} = E_{min}/E_{max} = 0.12$

Descripción:

MEJORA DEL CASCO URBANO DE ESTEPONA.

Instalación:

VIAL PEATONAL 1.

Calzada de Tipo C.I.E.: C2 Factor de reflexión: 0.07

Factor de mantenimiento: 0.8

DISPOSICION DE LA CALZADA

Posición X Anchura Tipo Carriles

0.00 4.00 Calzada 1

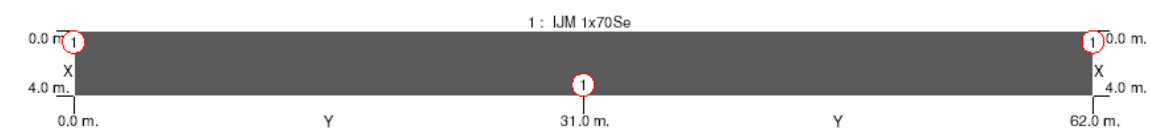
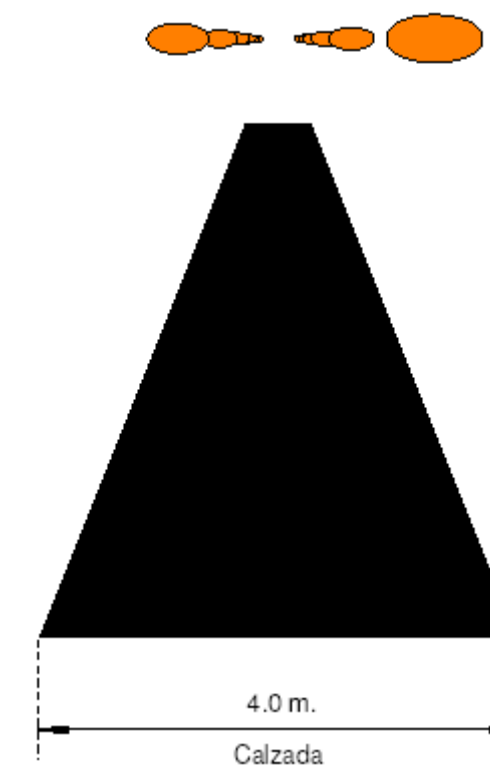
LUMINARIAS Y LAMPARAS SELECCIONADAS

Nº ID	LUMINARIA Modelo	Tipo	LAMPARA Flujo	Descripción
1	IJM	1x70 W S.A.P. eli	6.30	MASTERCOLOR CDM-TT

DISPOSICION DE LUMINARIAS

Nº	Tipo	Interdistancia	Eje óptico	Apoyo	Altura	Modelo
1	Tresbolillo	31.00	0.70	0.00	5.00	IJM 1x70Se

	X	Y	Altura	Theta	Sigma	Alfa
1	3.30	-31.00	5.00	180.00	0.00	0.00
2	0.70	0.00	5.00	0.00	0.00	0.00
3	3.30	31.00	5.00	180.00	0.00	0.00
4	0.70	62.00	5.00	0.00	0.00	0.00
5	3.30	93.00	5.00	180.00	0.00	0.00
6	0.70	124.00	5.00	0.00	0.00	0.00
7	3.30	155.00	5.00	180.00	0.00	0.00
8	0.70	186.00	5.00	0.00	0.00	0.00
9	3.30	217.00	5.00	180.00	0.00	0.00
10	0.70	248.00	5.00	0.00	0.00	0.00
11	3.30	279.00	5.00	180.00	0.00	0.00
12	0.70	310.00	5.00	0.00	0.00	0.00



Zona: ZONA DE ESTUDIO

MATRIZ DE ILUMINACION HORIZONTAL: Valores iniciales en lux

X/Y (m.)	0.00	6.20	12.40	18.60	24.80	31.00	37.20	43.40	49.60	55.80	62.00	UI
0.40	21	17	3	3	15	27	15	3	3	17	21	0.10
1.20	23	18	3	3	17	36	17	3	3	18	23	0.08
2.00	37	18	3	3	18	37	18	3	3	18	37	0.08
2.80	36	17	3	3	18	23	18	3	3	17	36	0.08
3.60	27	15	3	3	17	21	17	3	3	15	27	0.10
Ut	0.57	0.84	0.94	0.94	0.84	0.57	0.84	0.95	0.95	0.84	0.57	

ILUMINANCIAS:

MEDIA: $E_m = 14.94 \text{ lux}$

MINIMA: $E_{min} = 2.62 \text{ lux}$

MAXIMA: $E_{max} = 36.92 \text{ lux}$

MEDIA EN SERVICIO: $E_{ms} = 11.95 \text{ lux}$

UNIFORMIDADES:

MEDIA: $U_m = E_{min}/E_m = 0.18$

EXTREMA: $U_{ex} = E_{min}/E_{max} = 0.07$