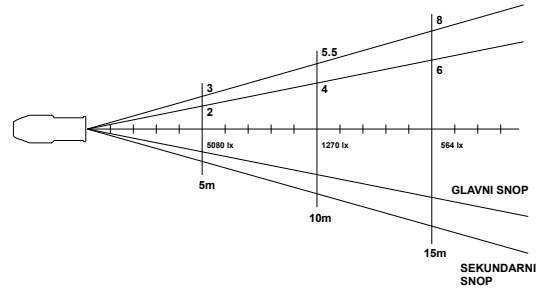


kazališna rasvjeta i projekcije

7. PRORAČUNI U DIZAJNU SVJETLA

DIJAGRAM DISIPACIJE SVJETLA

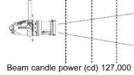


Photometric data

Typical performance based on: 600W GKV 230/240V lamp

SL19

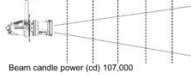
Distance (m)	5	10	15	20	25
Beam Ø (m)	1.7	3.3	5.0	6.7	8.4
Illum (lux)	5080	1270	564	318	203



Beam candle power (cd) 127,000

SL26

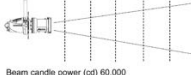
Distance (m)	5	10	15	20	25
Beam Ø (m)	2.3	4.6	6.9	9.2	11.5
Illum (lux)	4280	1070	476	268	171



Beam candle power (cd) 107,000

SL36

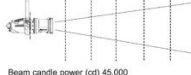
Distance (m)	5	10	15	20	25
Beam Ø (m)	3.2	6.5	9.7	13.0	16.2
Illum (lux)	2400	600	267	150	96



Beam candle power (cd) 60,000

SL50

Distance (m)	5	10	15	20	25
Beam Ø (m)	4.7	9.3	14.0	18.7	23.3
Illum (lux)	1800	450	200	113	72

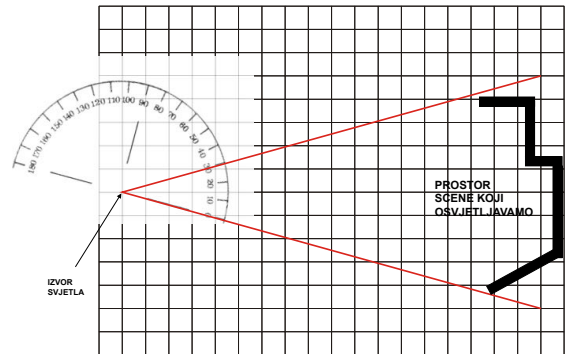


Beam candle power (cd) 45,000

Performance at any distance: divide beam candle power by distance²

For beam diameter at any distance: 19° multiply 0.32 x distance
26° multiply 0.46 x distance
36° multiply 0.64 x distance
50° multiply 0.93 x distance

MJERENJE POTREBNOG KUTA SVJETLA

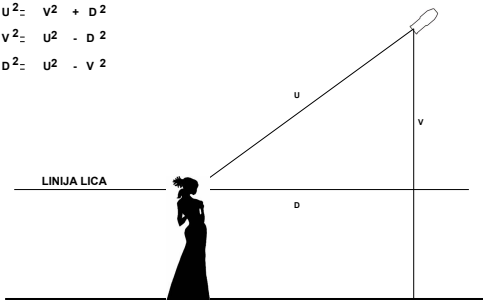


PRORAČUN UDALJENOSTI I VISINE REFLEKTORA

$$u^2 = v^2 + d^2$$

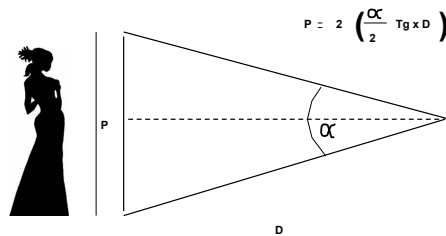
$$v^2 = u^2 - d^2$$

$$d^2 = u^2 - v^2$$

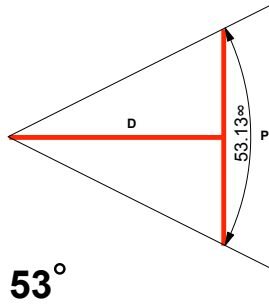


PRORAČUN POTREBNOG PROMJERA SNOPI SVJETLA

$$P = 2 \left(\frac{\alpha}{2} \text{Tg} \times d \right)$$



KUT SVJETLA-UDALJENOST-PROMJER SVJETLA

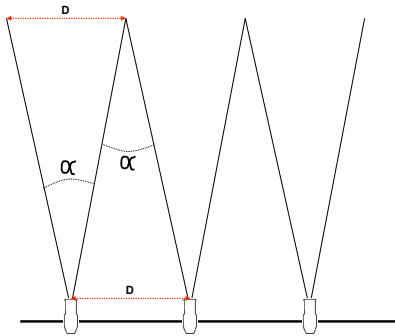


- 53° - P = D
- 26.5° - P = ½ D
- 13.25° - P = ¼ D
- D = 8m
- 53° - 8m
- 26.5° - 4m
- 13.25° - 2m

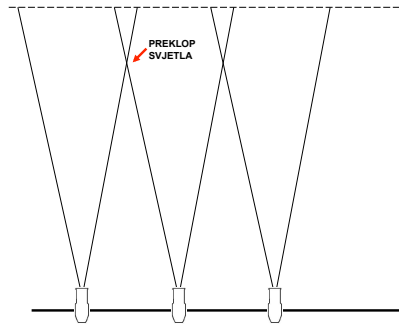
TABLICA KUTA SVJETLA

DIST	ANGLE (in degrees)										
	10	15	20	25	30	35	40	45	50	55	60
Meters-											
2	.36	.54	.72	.90	1.08	1.26	1.44	1.62	1.80	1.98	2.1
4	.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24	3.60	3.96	4.3
6	1.08	1.62	2.16	2.79	3.24	3.78	4.32	4.86	5.40	5.94	6.4
8	1.44	2.16	2.88	3.60	4.32	5.04	5.76	6.48	7.20	7.92	8.6
10	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.1	9.0	9.9	10.8
15	2.7	4.0	5.4	6.7	8.1	9.4	10.8	12.1	13.5	14.8	16.2
20	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0	19.8	21.6
25	4.5	6.7	9.0	11.2	13.5	15.7	18.0	20.2	22.5	24.7	27.0
30	5.4	8.1	10.8	13.5	16.2	18.9	21.6	24.3	27.0	-	-
35	6.3	9.5	12.6	15.7	18.9	22.0	25.2	28.3	-	-	-
40	7.2	10.8	14.4	18.0	21.6	25.2	28.8	-	-	-	-
45	8.1	12.2	16.2	20.2	24.3	28.3	-	-	-	-	-

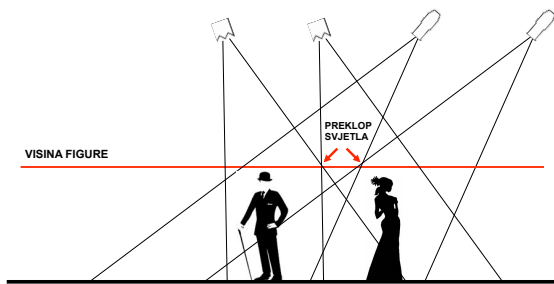
ODREĐIVANJE RAZMAKA IZMEĐU REFLEKTORA



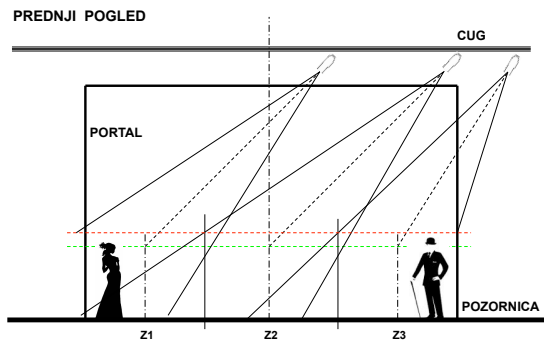
SPAJANJE SVJETLA PREKLAPANJEM SNOPOVA



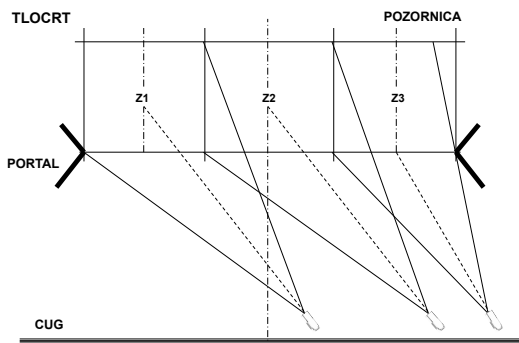
POVEZIVANJE SVJETLA U PRESJEKU



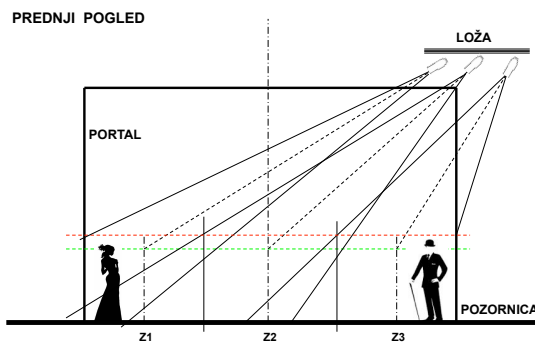
POSTAVLJANJE PREDNJEG SVJETLA-SA CUGA



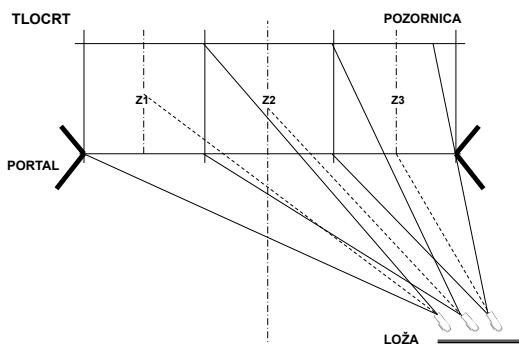
POSTAVLJANJE PREDNJEG SVJETLA-SA CUGA



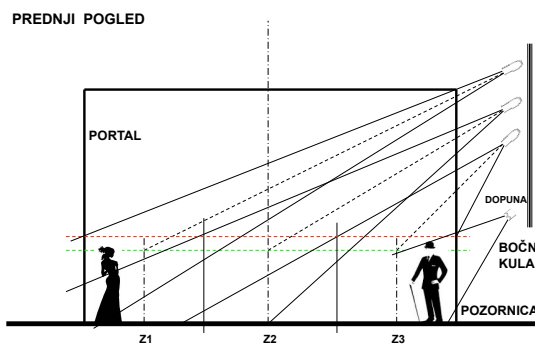
POSTAVLJANJE PREDNJEG SVJETLA-SA LOŽE



POSTAVLJANJE PREDNJEG SVJETLA-SA LOŽE



POSTAVLJANJE PREDNJEG SVJETLA-SA BOČNIH KULA



POSTAVLJANJE PREDNJEG SVJETLA-SA BOČNIH KULA

