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Since 
$$k_1 = k_2 P(n \cdot s_1)$$

Liewbertien Surface

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Since  $k_1 = k_2 P(n \cdot s_2)$ 

Since  $k_1 = k_2 = k$ ,  $k_3 = k_1 P(n \cdot s_2)$ 

Since  $k_1 = k_2 = k$ ,  $k_3 = k_1 P(n \cdot s_2)$ 

 $\Rightarrow L_3 = UP(\mathbf{n} \cdot (S_1 + S_3))$ To represent a single effective light source Sz, L3 = 43 P(n·S3)

L<sub>3</sub> = 
$$k_3 P(n \cdot S_3)$$
  
Fore  $k_3 P(n \cdot S_3) = k P(n \cdot (S_1 + S_2))$   
 $k_3 = (S_1 + S_2)$   
 $k_4 = (S_1 + S_2)$   
 $k_5 = (S_1 + S_2)$ 

therefore 
$$U_3P(n \cdot S_3) = UP(n \cdot (S_1 + S_2))$$
  
Thus  $S_3 = (S_1 + S_2)$   
 $S_1 + S_2$   
 $S_2 = (S_1 + S_2)$ 

 $= \sum L_3 = k_3 P\left(N \cdot \left(\frac{\left(S_1 + S_2\right)}{\left|S_1 + S_2\right|}\right)\right) \Rightarrow L_3 = \frac{k_3}{\left|S_1 + S_2\right|} P\left(N \cdot \left(S_1 + S_2\right)\right)$ 

Since  $l_3 = kp(n.(s_1+s_2)) = \frac{k_3}{|s_1+s_2|} p(n(s_1+s_2))$   $= \lambda_3 = \frac{k_3}{|s_1+s_2|} = \lambda_3 = \frac{k_3}{|s_1+s_2|}$ 

(b) 
$$K_1 \neq K_2$$
  
 $L_3 = K_1 f(n \cdot S_1) + U_2 P(n \cdot S_2)$   
 $= > L_3 = P(K_1 n \cdot S_1 + K_2 n \cdot S_2)$ 

$$= \sum_{z=1}^{\infty} P(\lambda_1 n \cdot S_1 + \lambda_2 n \cdot S_2)$$

$$= \sum_{k=3}^{3} \sum_{k=3}^{3} P(N \cdot (k, S_1 + k_2 S_2))$$

$$= \sum_{k=3}^{3} \sum_{k=3}^{3} P(N \cdot (k, S_1 + k_2 S_2))$$

$$S_3 = (\lambda, S_1 + \lambda_2 S_2)$$

$$[\lambda, S_1 + \lambda_2 S_2]$$

$$k_3 = \lfloor k_1 S_1 + k_2 S_2 \rfloor$$