

Room Estimator - Layout 1

Luminaire

IES Filename: OBL-27000L-40K-DIM-90W
Description: OBL-27000L-40K-DIM-WH

Lumens Per Lamp:	N.A.	lms
Number of Lamps:	1	
Luminaire Lumens:	27201	lms
Luminaire Efficiency:	N.A.	%
Luminaire Watts:	185	W

Total Light Loss Factor (LLF): 0.900

Room Dimensions

Length (X):	100	ft
Width (Y):	100	ft
Height (Z):	35	ft
Workplane Height:	2.5	ft
Suspension Length:	2	ft
Room Cavity Ratio (RCR):	3.050	

Room Reflectance

Ceiling:	0.70
Walls:	0.30
Floor:	0.20
Effective Ceiling Cavity:	0.663
Effective Floor Cavity:	0.191

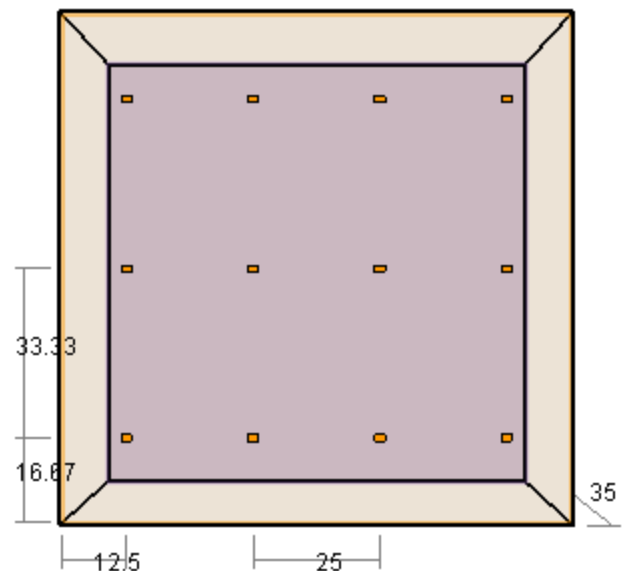
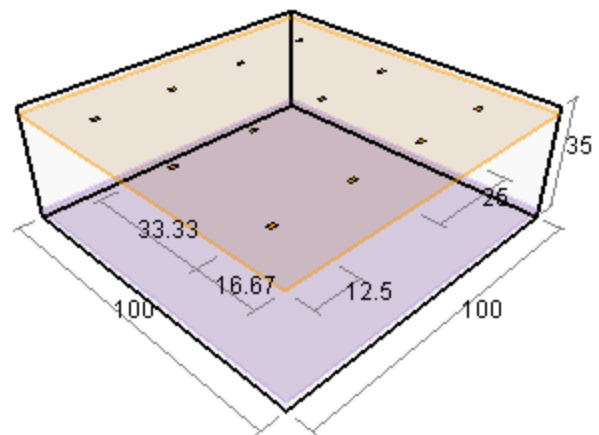
Coefficient of Utilization (CU): 0.857

Results

Estimated Average Illuminance:	25	fc
Number of Luminaires:	12	
Lighting Power Density (LPD):	0.222	W/ft ²

Layout

	Rows (Width, Y)	×	Columns (Length, X)	
Grid Layout (Size):	3	×	4	luminaires
Grid Spacing:	33.33	×	25	ft
Wall (Start) Spacing:	16.67	×	12.5	ft
Ceiling Grid Spacing:	N.A.	×	N.A.	ft
Spacing Criteria:	1.22	×	1.18	ft



Room Estimator - Layout 2

Luminaire

IES Filename: OBL-50000L-40K-DIM-90W
Description: OBL-50000L-40K-DIM-W

Lumens Per Lamp:	N.A.	lms
Number of Lamps:	1	
Luminaire Lumens:	50343	lms
Luminaire Efficiency:	N.A.	%
Luminaire Watts:	362	W

Total Light Loss Factor (LLF): 0.900

Room Dimensions

Length (X):	100	ft
Width (Y):	100	ft
Height (Z):	45	ft
Workplane Height:	2.5	ft
Suspension Length:	2	ft
Room Cavity Ratio (RCR):	4.050	

Room Reflectance

Ceiling:	0.70
Walls:	0.30
Floor:	0.20
Effective Ceiling Cavity:	0.663
Effective Floor Cavity:	0.191

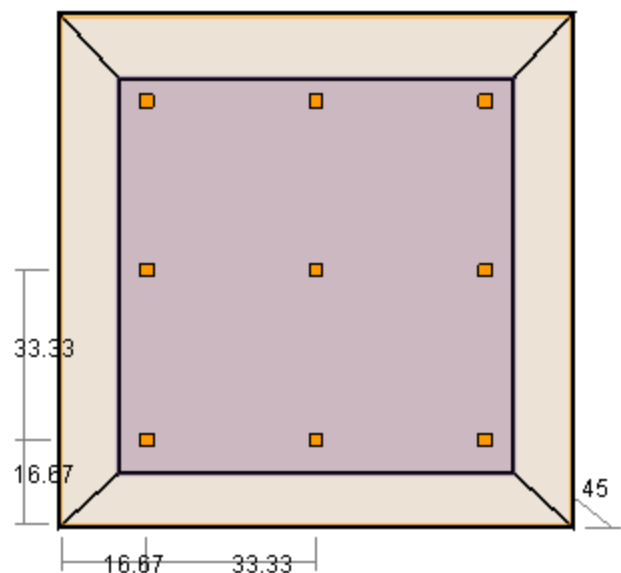
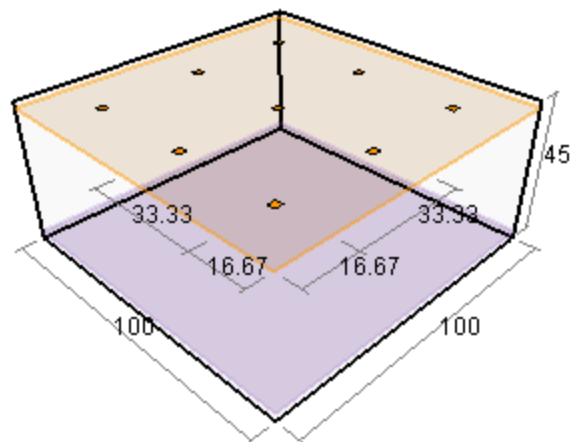
Coefficient of Utilization (CU): 0.794

Results

Estimated Average Illuminance:	32	fc
Number of Luminaires:	9	
Lighting Power Density (LPD):	0.326	W/ft ²

Layout

	Rows (Width, Y)	×	Columns (Length, X)	
Grid Layout (Size):	3	×	3	luminaires
Grid Spacing:	33.33	×	33.33	ft
Wall (Start) Spacing:	16.67	×	16.67	ft
Ceiling Grid Spacing:	N.A.	×	N.A.	ft
Spacing Criteria:	1.18	×	1.18	ft



Room Estimator - Layout 3

Luminaire

IES Filename: OBL-13000L-40K-DIM-90W
Description: OBL-13000L-40K-DIM-90W

Lumens Per Lamp:	N.A.	lms
Number of Lamps:	1	
Luminaire Lumens:	13019	lms
Luminaire Efficiency:	N.A.	%
Luminaire Watts:	89	W

Total Light Loss Factor (LLF): 0.900

Room Dimensions

Length (X):	100	ft
Width (Y):	100	ft
Height (Z):	25	ft
Workplane Height:	2.5	ft
Suspension Length:	2	ft
Room Cavity Ratio (RCR):	2.050	

Room Reflectance

Ceiling:	0.70
Walls:	0.30
Floor:	0.20
Effective Ceiling Cavity:	0.663
Effective Floor Cavity:	0.191

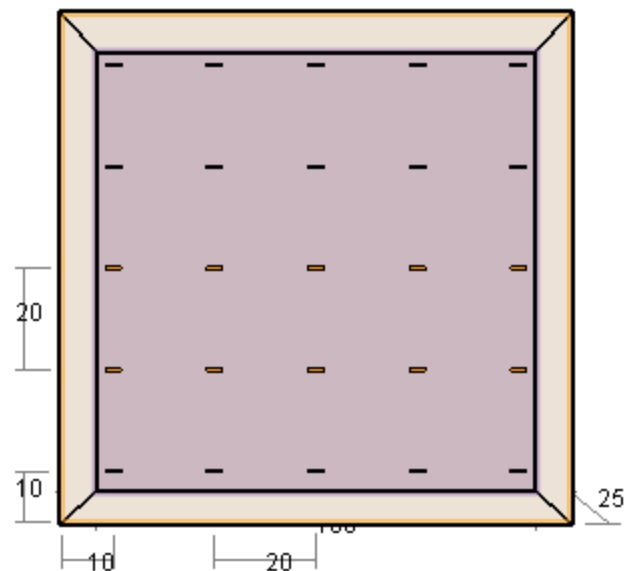
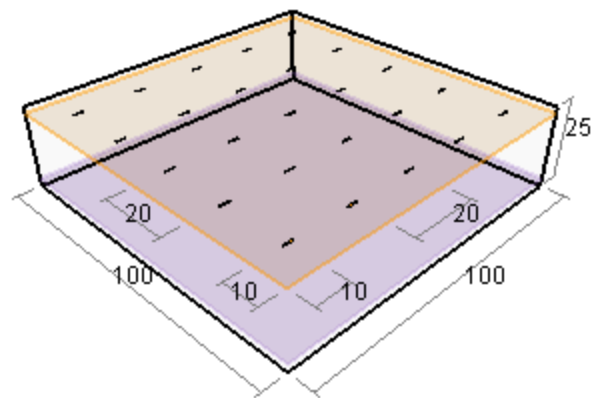
Coefficient of Utilization (CU): 0.940

Results

Estimated Average Illuminance:	28	fc
Number of Luminaires:	25	
Lighting Power Density (LPD):	0.223	W/ft ²

Layout

	Rows (Width, Y)		Columns (Length, X)	
Grid Layout (Size):	5	×	5	luminaires
Grid Spacing:	20	×	20	ft
Wall (Start) Spacing:	10	×	10	ft
Ceiling Grid Spacing:	N.A.	×	N.A.	ft
Spacing Criteria:	1.22	×	1.18	ft





Room Estimator - Comparison

Layout :	Layout 1	Layout 2	Layout 3	Units
Description :				
Summary				
Estimated Average Illuminance :	25	32	28	fc
Number of Luminaires :	12	9	25	
Lighting Power Density (LPD) :	0.222	0.326	0.223	W/ft^2
Luminaire				
Label :	OBL-27000L-40K-DIM-9	OBL-50000L-40K-DIM-9	OBL-13000L-40K-DIM-9	
Description :	OBL-27000L-40K-DIM-v	OBL-50000L-40K-DIM-v	OBL-13000L-40K-DIM-9	
Lumens Per Lamp :	N.A.	N.A.	N.A.	lms
Number of Lamps :	1	1	1	
Luminaire Lumens :	27201	50343	13019	lms
Luminaire Efficiency :	N.A.	N.A.	N.A.	%
Luminaire Watts :	185	362	89	W
Luminaire Rotation :	0	0	0	deg
Total Light Loss Factor (LLF) :	0.900	0.900	0.900	
Room				
Length (X) × Width (Y) × Height (Z) :	100 × 100 × 35	100 × 100 × 45	100 × 100 × 25	ft
Workplane Height :	2.5	2.5	2.5	ft
Luminaire Suspension Length :	2	2	2	ft
Room Cavity Ratio (RCR) :	3.050	4.050	2.050	
Reflectance				
Ceiling, Walls, Floor :	0.70, 0.30, 0.20	0.70, 0.30, 0.20	0.70, 0.30, 0.20	
Effective Cavity Reflectance (Ceiling, Floor) :	0.663, 0.191	0.663, 0.191	0.663, 0.191	
Coefficient of Utilization (CU) :	0.857	0.794	0.940	
Luminaire Layout				
Rows (width) × Columns (length) :	3 × 4	3 × 3	5 × 5	
Spacing (width) × (length) :	33.333 × 25	33.333 × 33.333	20 × 20	ft
Wall Spacing (width) × (length) :	16.667 × 12.5	16.667 × 16.667	10 × 10	ft
Ceiling Grid Size (width) × (length) :				ft
Spacing Criteria (width) × (length) :	1.18 × 1.22	1.18 × 1.18	1.18 × 1.22	