

SPECIFICATION SHEET

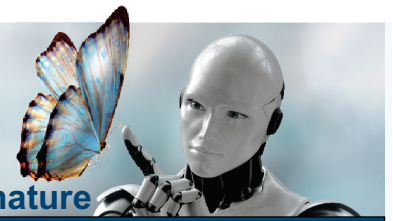
SUBJECT

ULTRATHIN LED RECESSED LUMINAIRE (SQUARE)

CUSTOMER PROJECT

Project: _____
 Type: _____
 Cat. No.: _____

 Qty: _____
 Date: _____
 EEL Rep: _____

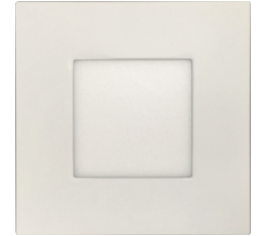


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Telephone: 905 415 8878 Fax Number: 905 415 8872 Toll Free Telephone: 855 415 8878 Toll Free Fax: 855 415 8872

DESCRIPTION

The UltraThin 6" Recessed Luminaire fits where no other recessed fixture can. This recessed luminaire is dimmable, IC air tight rated, wet location approved and Energy Star Rated.



**ULTRATHIN
6" LED RECESSED
LUMINAIRE
(SQUARE)**

SPECIFICATION FEATURES

Construction

Square 6" fixture with integral LEDs

Controls

Isolated driver factory installed inside connection box

Electrical

Ambient temperature -40°C to 40°C. CRI:80.
 120V dimmable / 277-347V non-dimmable.
 12 Watt equivalent to 65 Watt halogen
 15 Watt equivalent to 75 Watt halogen

Mounting

Cut hole in ceiling and snap fixture in opening with attached spring clips. Clearance needed - 2" (50mm)

Beam Angle

120°

Finish

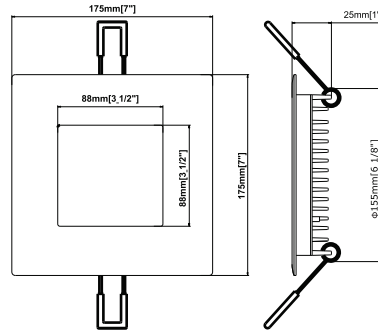
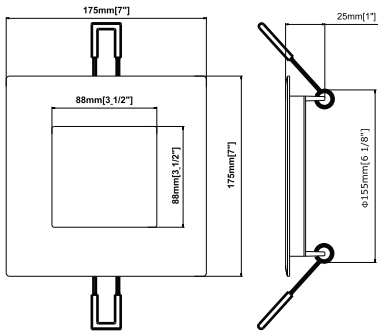
White trim, Brushed nickel and Black

Compliance

CETL and Energy Star

Warranty

5 years, 50,000+ hours



UTLED-6-S12W-3KWH-SQ / UTLED-6-S12W-4KWH-SQ
 UTLED-6-S12W-3KBN-SQ / UTLED-6-S12W-4KBN-SQ
 UTLED-6-S12W-3KBK-SQ / UTLED-6-S12W-4KBK-SQ

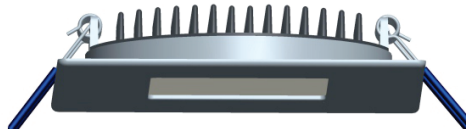
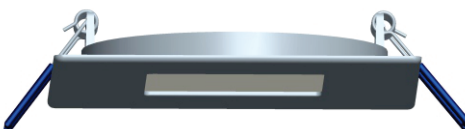
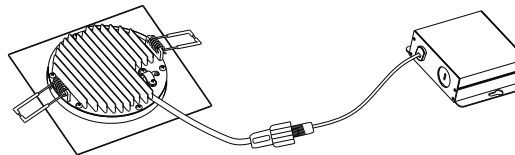
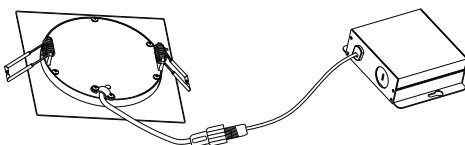
Dimensions

L 7" (175mm) x W 7" (175mm) x ID 5-15/16" (151mm)
 Cut out 6-1/8" (±1/8") (155 ± 3mm)
 Thickness 1/2" (12mm)

UTLED-6-S15W-3KWH-SQ / UTLED-6-S15W-4KWH-SQ
 UTLED-6-S15W-3KBN-SQ / UTLED-6-S15W-4KBN-SQ
 UTLED-6-S15W-3KBK-SQ / UTLED-6-S15W-4KBK-SQ













Dimensions

L 7" (175mm) x W 7" (175mm) x ID 5-15/16" (151mm)
 Cut out 6-1/8" (±1/8") (155 ± 3mm)
 Thickness 1" (25mm)





ORDERING CODE, ENERGY AND PERFORMANCE DATA

	Model No.	Delivered Lumens (lm)	Input Watts (W)	Voltage (V)	Colour Temp. (K)	Certification	Type
	UTLED-6-S12W-3KWH-SQ UTLED-6-S12W-4KWH-SQ White	700 800	12 12	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order
	UTLED-6-S15W-3KWH-SQ UTLED-6-S15W-4KWH-SQ White	900 1000	15 15	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order
	UTLED-6-S12W-3KBN-SQ UTLED-6-S12W-4KBN-SQ Brushed Nickel	700 800	12 12	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order
	UTLED-6-S15W-3KBN-SQ UTLED-6-S15W-4KBN-SQ Brushed Nickel	900 1000	15 15	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order
	UTLED-6-S12W-3KBK-SQ UTLED-6-S12W-4KBK-SQ Black	700 800	12 12	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order
	UTLED-6-S15W-3KBK-SQ UTLED-6-S15W-4KBK-SQ Black	900 1000	15 15	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order

NOTE:
 • 120V dimmable / 277-347V non-dimmable
 • Lumens are estimated

OPTIONAL ACCESSORIES

- UTLED-6-MP | Mounting Plate for 6" UltraThin models
- UTLED-JC-10 | Extension Cable 10ft for UltraThin models
- UTLED-JC-20 | Extension Cable 20ft for UltraThin models

SHIPPING DATA

Model No.	Gross Weight
UTLED-6-S12W-3KWH-SQ	0.73kg / 1.61lbs
UTLED-6-S12W-4KWH-SQ	0.73kg / 1.61lbs
UTLED-6-S15W-3KWH-SQ	0.88kg / 1.94lbs
UTLED-6-S15W-4KWH-SQ	0.88kg / 1.94lbs
UTLED-6-S12W-3KBN-SQ	0.73kg / 1.61lbs
UTLED-6-S12W-4KBN-SQ	0.73kg / 1.61lbs
UTLED-6-S15W-3KBN-SQ	0.88kg / 1.94lbs
UTLED-6-S15W-4KBN-SQ	0.88kg / 1.94lbs
UTLED-6-S12W-3KBK-SQ	0.73kg / 1.61lbs
UTLED-6-S12W-4KBK-SQ	0.73kg / 1.61lbs
UTLED-6-S15W-3KBK-SQ	0.88kg / 1.94lbs
UTLED-6-S15W-4KBK-SQ	0.88kg / 1.94lbs



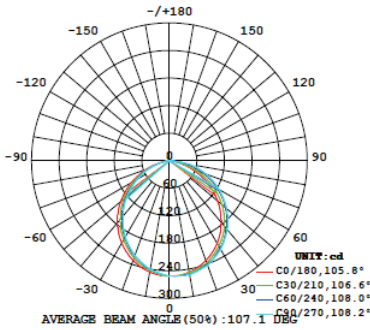


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PHOTOMETRICS



UTLED-6-S12W-3K

S/MH(C0/180) = 1.23
 S/MH(C90/270) = 1.31
 Lumens: 661.09
 Nominal Power: 12 W
 Efficacy: 65.54 lm/W

Candlepower

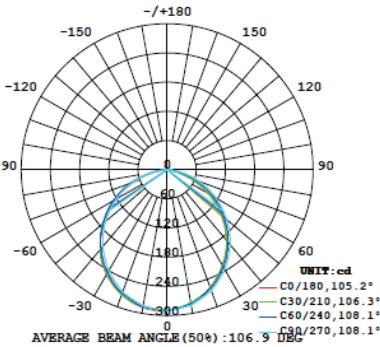
y	C0	C45	C90	C135	C180	C225	C270	C315
5	250.6	251.3	252.0	251.2	250.4	247.2	246.3	247.3
10	246.6	249.6	252.3	249.4	246.5	241.4	240.7	241.3
15	240.2	246.0	247.4	245.5	240.1	233.8	230.5	234.0
20	231.6	238.2	242.5	237.8	231.3	222.5	220.3	222.7
25	220.7	229.6	232.9	229.0	220.3	210.5	206.3	210.5
30	207.9	218.2	223.2	217.5	207.5	196.3	192.3	196.2
35	192.7	204.9	209.6	203.8	192.9	180.4	175.4	180.3
40	175.6	190.7	196.0	189.3	176.6	163.9	158.6	162.8
45	157.1	172.0	179.3	172.1	158.3	145.5	139.6	144.8
50	137.3	155.1	162.6	154.6	138.5	127.1	120.6	125.7
55	116.4	134.8	142.7	133.9	117.7	106.4	100.5	105.0
60	94.49	114.3	124.8	113.2	96.11	85.73	80.25	84.42
65	72.06	92.19	104.5	90.95	74.04	64.69	60.42	62.33
70	49.44	69.41	84.07	64.06	52.17	44.32	40.48	42.16
75	27.45	46.07	62.78	40.11	30.95	24.83	23.49	24.04
80	9.530	22.48	42.51	21.25	11.75	9.462	6.274	8.977
85	0	2.644	0	4.292	0	0.4177	0	0.2831
90	0	0	0	0	0	0	0	0

Zonal Lumen Summary

y	φ zone	φ total	lum.lamp
0- 5	5.995	5.995	0.91,0.91
5- 10	17.71	22.70	2.58,2.58
10- 15	28.78	52.47	7.94,7.94
15- 20	38.72	91.20	13.8,13.8
20- 25	47.25	138.5	20.9,20.9
25- 30	54.01	192.5	29.1,29.1
30- 35	59.85	251.2	39.28
35- 40	61.53	312.8	47.3,47.3
40- 45	62.04	374.9	56.7,56.7
45- 50	60.30	425.2	65.8,65.8
50- 55	56.44	491.6	74.4,74.4
55- 60	50.59	542.2	82.82
60- 65	42.01	585.2	88.5,88.5
65- 70	33.87	619.1	92.6,92.6
70- 75	22.78	642.9	97.2,97.2
75- 80	12.79	656.6	99.3,99.3
80- 85	4.391	661.0	100,100
85- 90	0.0561	661.1	100,100

Coefficient of Utilization

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.05	1.01	.97	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.32	.27	.26



UTLED-6-S12W-4K

S/MH(C0/180) = 1.18
 S/MH(C90/270) = 1.22
 Lumens: 758.78
 Nominal Power: 12 W
 Efficacy: 74.78 lm/W

Candlepower

y	C0	C45	C90	C135	C180	C225	C270	C315
5	285.7	284.8	286.2	287.9	290.2	288.5	287.0	285.4
10	279.0	278.7	282.7	284.7	287.7	285.9	284.4	279.8
15	269.6	270.5	273.7	275.1	282.2	281.0	276.0	272.2
20	257.7	258.0	264.6	269.1	273.5	271.5	267.6	260.1
25	243.4	244.6	250.7	257.9	263.1	260.9	254.3	246.9
30	227.2	228.6	236.7	243.8	249.6	247.4	240.9	231.2
35	209.1	210.7	218.9	227.2	233.1	231.4	223.7	213.7
40	189.2	192.2	201.1	209.5	214.1	214.6	206.4	195.5
45	167.7	171.0	180.5	189.6	193.0	194.6	186.2	174.5
50	144.8	149.4	159.9	167.2	170.5	174.2	165.9	153.6
55	120.7	125.8	137.5	143.7	146.7	150.6	143.5	130.4
60	95.87	102.3	115.2	120.1	122.0	127.0	121.1	107.3
65	70.69	77.58	91.40	94.61	96.38	102.1	97.78	82.92
70	45.65	53.66	67.65	66.92	70.48	77.16	74.42	59.19
75	22.02	30.58	48.17	39.34	44.66	52.10	51.95	36.13
80	9.211	11.20	24.69	18.86	18.80	28.41	29.48	15.49
85	0	0.1746	0	3.595	0	6.101	0	1.594
90	0	0	0	0	0	0	0	0

Zonal Lumen Summary

y	φ zone	φ total	lum.lamp
0- 5	6.882	6.882	0.91,0.91
5- 10	20.37	27.25	2.59,2.59
10- 15	33.09	60.34	7.95,7.95
15- 20	44.51	104.8	13.9,13.9
20- 25	54.30	159.1	21.21
25- 30	62.04	221.2	29.1,29.1
30- 35	67.57	288.8	38.1,38.1
35- 40	70.61	359.4	47.4,47.4
40- 45	71.14	430.5	56.7,56.7
45- 50	69.13	499.6	65.9,65.9
50- 55	64.71	564.2	74.4,74.4
55- 60	58.01	622.4	82.82
60- 65	49.32	671.7	88.5,88.5
65- 70	38.82	710.5	92.6,92.6
70- 75	27.22	720.7	97.2,97.2
75- 80	15.80	750.5	99.3,99.3
80- 85	5.171	758.7	100,100
85- 90	0.0891	758.8	100,100

Coefficient of Utilization

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.05	1.01	.97	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.32	.27	.26



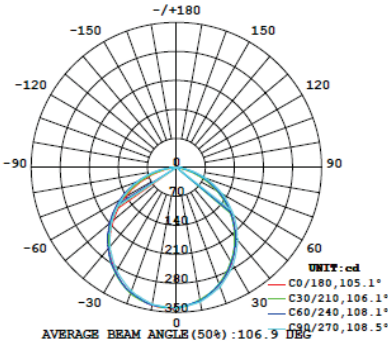


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PHOTOMETRICS



UTLED-6-S15W-3K

S/MH(C0/180) = 1.17
 S/MH(C90/270) = 1.20
 Lumens: 889.63
 Nominal Power: 14 W
 Efficacy: 70.63 lm/W

Candlepower

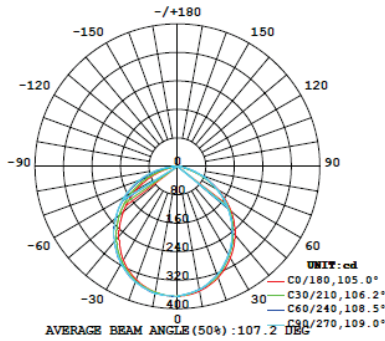
y	C0	C45	C90	C135	C180	C225	C270	C315
5	334.9	323.0	324.6	327.0	340.4	339.1	327.6	335.1
10	326.8	325.3	329.6	332.6	337.8	326.9	325.5	329.3
15	315.6	314.8	318.1	325.8	331.7	322.2	326.8	320.9
20	301.9	299.5	306.7	313.5	322.5	322.1	318.1	307.3
25	284.6	282.9	291.8	299.9	309.7	310.7	303.2	292.7
30	265.9	262.6	272.2	282.9	292.3	295.2	288.4	274.7
35	244.3	242.0	250.8	262.5	272.5	276.9	269.1	254.4
40	221.6	219.7	229.3	240.6	249.9	257.0	249.7	233.4
45	198.7	194.4	204.7	215.6	225.1	233.5	226.6	209.1
50	170.6	169.2	180.0	190.3	198.5	209.6	203.5	185.0
55	142.6	142.1	152.1	162.0	170.5	182.0	177.8	158.4
60	113.6	115.0	126.2	134.7	141.3	154.4	152.2	132.1
65	84.04	86.44	98.55	102.9	111.0	125.1	125.2	104.2
70	54.43	58.88	70.86	69.76	80.49	95.37	98.19	76.32
75	28.00	32.80	46.40	40.79	50.10	65.19	71.45	48.70
80	2.700	11.39	21.93	19.20	20.91	36.33	44.71	21.86
85	0	0	0	2.955	0	8.102	0	2.640
90	0	0	0	0	0	0	0	0

Zonal Lumen Summary

y	φ zone	φ total	%lum.lamp
0-5	8.069	8.069	0.910.91
5-10	23.88	31.95	3.593.59
10-15	38.81	70.76	7.957.95
15-20	52.23	123.0	13.913.9
20-25	63.73	186.7	21.21
25-30	72.79	259.5	29.229.2
30-35	79.22	338.7	38.138.1
35-40	82.74	421.5	47.447.4
40-45	83.37	504.8	56.756.7
45-50	81.02	589.9	66.966.9
50-55	75.89	661.8	74.474.4
55-60	68.06	729.8	82.82
60-65	57.86	787.7	88.588.5
65-70	45.52	832.2	92.792.7
70-75	31.95	865.1	97.297.2
75-80	19.42	893.6	99.999.9
80-85	8.954	899.5	100.100
85-90	0.0983	899.6	100.100

Coefficient of Utilization

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.05	1.01	.97	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.32	.27	.26



UTLED-6-S15W-4K

S/MH(C0/180) = 1.22
 S/MH(C90/270) = 1.18
 Lumens: 950.78
 Nominal Power: 14 W
 Efficacy: 73.48 lm/W

Candlepower

y	C0	C45	C90	C135	C180	C225	C270	C315
5	362.1	358.9	358.5	360.1	363.8	363.8	363.7	362.6
10	355.5	351.3	352.3	359.2	359.0	360.3	362.7	359.6
15	345.5	341.0	339.2	343.9	340.5	355.1	354.5	351.6
20	332.6	325.2	326.0	329.1	328.8	342.7	346.2	339.0
25	316.1	308.3	306.7	312.9	323.6	321.1	321.5	325.2
30	297.1	288.1	287.4	293.3	304.6	314.7	316.7	307.6
35	275.7	265.2	263.9	269.6	281.1	294.8	296.3	287.1
40	252.1	241.8	240.4	244.8	255.9	272.1	275.9	265.7
45	225.5	215.1	213.4	216.9	228.2	247.3	251.7	240.7
50	194.8	185.4	186.5	189.9	199.8	221.1	227.6	215.7
55	165.4	158.4	157.2	157.8	167.8	191.3	200.3	187.3
60	131.8	127.7	127.9	126.9	135.5	161.2	172.1	158.1
65	97.28	95.49	98.12	94.96	102.2	128.7	144.0	125.7
70	62.29	64.17	68.33	61.84	68.86	95.60	114.8	92.16
75	28.34	34.77	43.03	31.67	36.48	62.45	84.20	57.36
80	2.378	12.01	17.73	10.71	7.549	30.63	53.62	28.15
85	0	0	0	0.0022	0	5.066	0	2.834
90	0	0	0	0	0	0	0	0

Zonal Lumen Summary

y	φ zone	φ total	%lum.lamp
0-5	8.675	8.675	0.910.91
5-10	25.48	34.15	3.613.61
10-15	41.74	76.09	8.0
15-20	56.19	132.3	13.913.9
20-25	68.60	200.9	21.121.1
25-30	78.42	279.3	29.429.4
30-35	85.38	364.7	38.438.4
35-40	89.20	453.9	47.747.7
40-45	89.90	543.8	57.297.2
45-50	87.35	631.1	66.466.4
50-55	81.68	712.8	75.75
55-60	72.97	785.8	82.682.6
60-65	61.62	847.4	89.189.1
65-70	47.96	895.3	94.294.2
70-75	32.64	927.9	97.697.6
75-80	17.75	945.6	99.599.5
80-85	5.088	950.7	100.100
85-90	0.0499	950.8	100.100

Coefficient of Utilization

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.78	.84	.79	.76	.81	.77	.74	.72
3.0	.81	.73	.67	.80	.72	.67	.77	.71	.65	.74	.69	.64	.72	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.55	.52
5.0	.65	.56	.49	.64	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.45
6.0	.58	.49	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.42	.38	.48	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.32
9.0	.44	.36	.31	.44	.36	.31	.42	.35	.31	.42	.35	.30	.41	.35	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.38	.32	.27	.26

