

SPECIFICATION SHEET

SUBJECT

ULTRATHIN 6" RECESSED LUMINAIRE

CUSTOMER PROJECT

Project: _____
Type: _____
Cat. No.: _____
Qty: _____
Date: _____
EEL Rep: _____

EELighting

solutions closer to nature

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**

SPECIFICATION FEATURES

Construction

Round 6" fixture with integral LEDs

Controls

Isolated driver factory installed inside connection box

Electrical

Ambient temperature -40°C to 40°C

CRI:80

IC-Rated

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 by using the template provided and snap fixture in opening with attached spring clips.

Clearance needed - 2" (50mm).

Beam Angle

120°

Finish

Standard - White

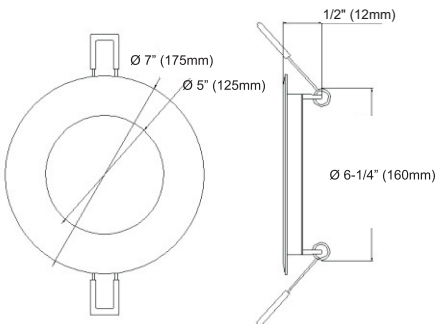
Special Order - Brushed Nickel and Black

Compliance

cETLus and Energy Star

Warranty

5 years, 50,000+ hours



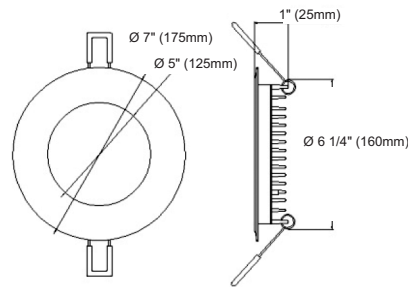
UTLED-6-S12W-3KWH / UTLED-6-S12W-3KBN / UTLED-6-S12W-3KBK
UTLED-6-S12W-4KWH / UTLED-6-S12W-4KBN / UTLED-6-S12W-4KBK

Dimensions

OD 7" (178mm) x ID 5-15/16" (151mm)

Cut out 6-1/8" (±1/8") (155 ± 3mm)

Thickness 1/2" (12mm)



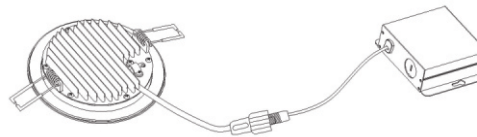
UTLED-6-S15W-3KWH / UTLED-6-S15W-3KBN / UTLED-6-S15W-3KBK
UTLED-6-S15W-4KWH / UTLED-6-S15W-4KBN / UTLED-6-S15W-4KBK

Dimensions

OD 7" (178mm) x ID 5-15/16" (151mm)

Cut out 6-1/8" (±1/8") (155 ± 3mm)

Thickness 1" (25mm)



www.eelighting.ca



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 UTLED-6-S12W-4KWH White	700 800	12 12	120V / 277-347V 120V / 277-347V	3000K 4000K		Standard Standard
	UTLED-6-S15W-3KWH UTLED-6-S15W-4KWH White	900 1000	15 15	120V / 277-347V 120V / 277-347V	3000K 4000K		Standard Standard
	UTLED-6-S12W-3KBN UTLED-6-S12W-4KBN Brushed Nickel	700 800	12 12	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order
	UTLED-6-S15W-3KBN UTLED-6-S15W-4KBN Brushed Nickel	900 1000	15 15	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order
	UTLED-6-S12W-3KBK UTLED-6-S12W-4KBK Black	700 800	12 12	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order
	UTLED-6-S15W-3KBK UTLED-6-S15W-4KBK 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
- UTLED-JC-10 | 10' Extension Cable for UltraThin
- UTLED-JC-20 | 20' Extension Cable for UltraThin
- TRIM6BK | Face Plate in Black for 6" UltraThin
- TRIM6BN | Face Plate in Brushed Nickel for 6" UltraThin
- TRIM6CP | Face Plate in Copper for 6" UltraThin
- UTLED-6-GOOFRING | Goof Ring for 6" UltraThin

SHIPPING DATA

Model No.	Gross Weight
UTLED-6-S12W-3KWH	0.63 kg / 1.4 lbs
UTLED-6-S12W-4KWH	0.63 kg / 1.4 lbs
UTLED-6-S15W-3KWH	0.79 kg / 1.7 lbs
UTLED-6-S15W-4KWH	0.79 kg / 1.7 lbs
UTLED-6-S12W-3KBN	0.63 kg / 1.4 lbs
UTLED-6-S12W-3KBN	0.63 kg / 1.4 lbs
UTLED-6-S15W-3KBN	0.79 kg / 1.7 lbs
UTLED-6-S15W-4KBN	0.79 kg / 1.7 lbs
UTLED-6-S12W-3KBK	0.63 kg / 1.4 lbs
UTLED-6-S12W-3KBK	0.63 kg / 1.4 lbs
UTLED-6-S15W-3KBK	0.79 kg / 1.7 lbs
UTLED-6-S15W-4KBK	0.79 kg / 1.7 lbs

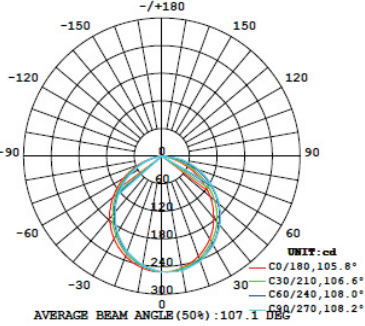


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PHOTOMETRICS



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

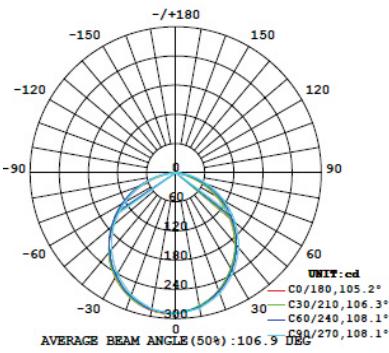
γ	C0	C45	C90	C135	C180	C225	C270	C315
5	250.6	281.3	282.0	281.2	250.4	247.2	246.2	247.2
10	246.6	249.6	282.3	249.4	246.8	241.4	240.7	241.8
15	240.2	246.0	247.4	245.5	240.1	233.8	230.8	234.0
20	231.6	238.2	242.5	237.8	231.3	222.5	220.3	224.7
25	220.7	229.6	232.9	229.0	220.3	210.5	206.3	210.5
30	207.9	218.2	222.2	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	162.9	158.6	163.8
45	157.1	172.0	179.2	172.1	155.2	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	143.7	133.9	117.7	106.3	100.5	105.0
60	94.49	114.5	124.8	113.2	96.11	85.73	80.35	84.42
65	72.06	92.19	104.5	90.95	74.04	64.69	60.42	63.33
70	49.44	69.41	84.07	64.86	52.17	44.33	40.48	43.16
75	27.45	46.07	62.79	40.11	30.95	24.82	23.43	24.04
80	9.520	22.48	43.51	21.25	11.75	9.462	6.374	8.977
85	0	3.644	0	4.283	0	0.4177	0	0.2921
90	0	0	0	0	0	0	0	0

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

Zonal Lumen Summary

γ	φ zone	φ total	lum. lum.	
0- 5	5.985	5.985	0.91,0.91	
5- 10	17.71	23.70	3.58,3.58	
10- 15	28.78	52.47	7.94,7.94	
15- 20	38.70	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	58.95	251.3	38.38	
35- 40	61.59	312.8	47.3,47.3	
40- 45	62.04	374.9	56.7,56.7	
45- 50	60.30	435.2	65.9,65.8	
50- 55	56.44	491.6	74.4,74.4	
55- 60	50.88	542.2	82.82	
60- 65	43.01	585.2	89.9,89.9	
65- 70	33.87	619.1	93.6,93.6	
70- 75	23.78	642.9	97.2,97.2	
75- 80	13.79	656.6	99.3,99.3	
80- 85	4.381	661.0	100,100	
85- 90	0.0561	661.1	100,100	



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

γ	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	272.7	279.1	282.2	281.0	276.0	272.2
20	257.7	258.0	264.6	269.1	272.9	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	242.8	248.6	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	195.8
45	167.7	171.0	180.5	188.6	193.0	194.6	186.2	174.3
50	144.8	149.4	159.9	167.2	170.5	174.2	165.9	153.6
55	120.7	125.9	137.5	143.7	146.7	150.6	143.5	130.4
60	95.87	102.3	115.2	120.1	122.0	125.0	121.1	107.9
65	70.69	77.88	91.40	94.61	96.38	102.1	97.78	82.92
70	48.65	52.66	67.65	66.92	70.43	77.16	74.43	59.19
75	22.02	30.58	46.17	39.34	44.66	52.10	51.95	36.13
80	3.211	11.20	24.69	19.86	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

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

Zonal Lumen Summary

γ	φ zone	φ total	lum. lum.	
0- 5	6.882	6.882	0.91,0.91	
5- 10	20.37	27.25	3.59,3.59	
10- 15	33.99	60.34	7.95,7.95	
15- 20	44.51	104.8	13.8,13.8	
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	69.12	499.6	65.9,65.8	
50- 55	64.71	564.3	74.4,74.4	
55- 60	58.01	622.4	82.82	
60- 65	49.32	671.7	89.9,89.9	
65- 70	38.89	710.5	93.6,93.6	
70- 75	27.22	737.7	97.2,97.2	
75- 80	15.80	752.5	99.3,99.3	
80- 85	8.171	758.7	100,100	
85- 90	0.0891	758.8	100,100	

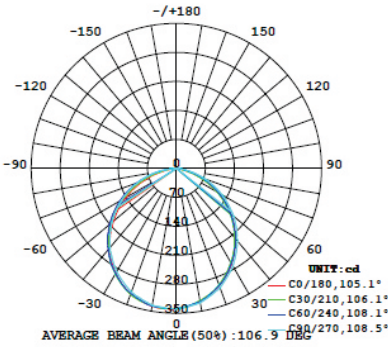


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PHOTOMETRICS



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

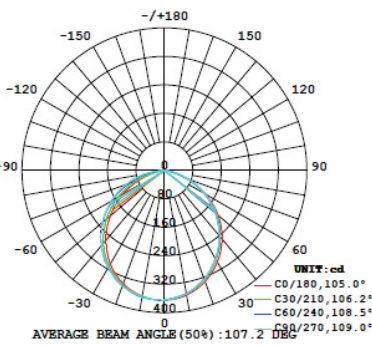
γ	C0	C45	C90	C135	C180	C225	C270	C315
5	334.9	323.0	324.6	327.0	340.4	339.1	327.6	335.1
10	326.8	325.2	329.6	332.6	337.8	336.9	335.5	329.2
15	315.6	314.8	318.1	325.8	331.7	332.2	326.8	320.9
20	301.5	299.5	306.7	313.5	322.5	322.1	318.1	307.3
25	284.6	282.9	289.5	299.9	309.7	310.7	303.2	292.7
30	265.8	263.6	272.2	282.9	292.3	295.2	288.4	274.7
35	244.9	242.0	250.8	262.9	272.5	276.9	269.1	254.4
40	221.6	219.7	229.2	240.6	249.8	257.0	249.7	233.4
45	196.7	194.4	204.7	215.6	225.1	232.5	226.6	209.1
50	170.6	169.3	180.0	190.3	198.5	209.6	203.5	185.0
55	142.6	142.1	153.1	162.0	170.5	182.0	177.9	158.4
60	113.6	113.0	124.2	133.7	141.3	154.4	152.2	132.1
65	84.04	84.44	95.55	102.9	111.0	125.1	128.2	104.2
70	54.43	55.88	70.84	79.76	89.49	98.37	99.19	76.33
75	26.00	32.80	46.40	40.79	50.10	65.19	71.45	49.70
80	2.700	11.39	21.93	19.20	20.91	36.39	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

γ	φ zone	φ total	lum, lam
0- 5	8.969	8.969	0.21,0.91
5- 10	22.85	31.82	1.55,2.59
10- 15	28.81	70.76	7.95,7.95
15- 20	52.23	123.0	13.8,13.8
20- 25	62.73	186.7	21.21
25- 30	72.79	259.5	23.2,23.2
30- 35	79.22	338.7	30.1,30.1
35- 40	82.75	423.5	47.4,47.4
40- 45	83.37	504.8	56.7,56.7
45- 50	81.03	585.9	65.9,65.9
50- 55	75.89	661.8	74.4,74.4
55- 60	68.06	729.8	82.02
60- 65	57.86	787.7	89.9,89.9
65- 70	45.52	833.2	93.7,93.7
70- 75	31.95	865.1	97.2,97.2
75- 80	18.42	883.6	99.4,99.4
80- 85	5.954	889.5	100,100
85- 90	0.0982	889.6	100,100

Coefficient of Utilization

ρcc	80%			70%			50%			20%			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						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: 950.782 W
 Nominal Power: 14W
 Efficacy: 73.48 lm/W

Candlepower

γ	C0	C45	C90	C135	C180	C225	C270	C315
5	362.1	358.9	358.5	360.1	363.8	362.8	363.7	362.6
10	355.5	351.3	352.3	352.2	359.0	360.8	362.7	358.6
15	345.5	341.0	339.2	342.9	350.5	355.1	354.5	351.6
20	332.6	328.2	326.0	329.1	338.8	342.7	346.3	339.0
25	316.1	308.3	306.7	312.9	322.6	331.1	331.5	325.2
30	297.1	288.1	287.4	293.3	304.6	314.7	315.7	307.6
35	275.7	265.7	263.9	269.6	281.1	294.0	296.2	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	196.8	188.4	186.5	188.9	198.8	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	173.1	158.1
65	97.28	95.49	98.12	94.96	102.2	128.7	144.0	125.7
70	62.29	64.17	65.33	61.84	69.86	95.60	114.8	92.16
75	28.34	34.77	42.03	31.67	36.48	62.45	84.20	57.36
80	2.378	12.01	17.73	10.71	7.549	30.63	52.62	25.15
85	0	0	0	0.0022	0	5.066	0	2.834
90	0	0	0	0	0	0	0	0

Zonal Lumen Summary

γ	φ zone	φ total	lum, lam
0- 5	8.675	8.675	0.91,0.91
5- 10	25.68	34.35	3.61,3.61
10- 15	41.74	76.09	8,8
15- 20	56.19	132.3	13.9,13.9
20- 25	68.60	200.9	21.1,21.1
25- 30	78.42	279.3	23.4,23.4
30- 35	85.38	364.7	30.4,30.4
35- 40	89.20	453.9	47.7,47.7
40- 45	89.90	543.8	57.2,57.2
45- 50	87.35	621.1	66.4,66.4
50- 55	81.68	712.8	75.75
55- 60	72.97	785.8	82.6,82.6
60- 65	61.62	847.4	89.1,89.1
65- 70	47.86	895.3	94.2,94.2
70- 75	32.64	927.9	97.6,97.6
75- 80	17.75	945.6	99.5,99.5
80- 85	5.098	950.7	100,100
85- 90	0.0499	950.8	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						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	.43	.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

